Gränsvärden & riskområden

Initiala riskområden i RIB, Farliga ämnen

Farliga ämnen har för version 2/2000 kompletterats med Initiala riskområden för vissa kemikaliegrupper.

Som huvudunderlag har använts Brandmannaskolan kem (Räddningsverket 1997).
För kondenserade giftiga och eller frätande gaser har avvikelse från de initiala riskområden som angivits i Brandmannaskolan kem gjorts.
Skälet till detta är, att för vissa kemikalier i gruppen och i synnerhet vid särskilda väderleksbetingelser är avvikelserna från beräkningsresultat erhållna med BfK, ALOHA. samt vad som anges framförallt i amerikanska manualer, alltför stora. Vi har gjort den samlade bedömningen att dessa i vissa fall mycket stora avvikelser skulle kunna allvarligt förvärra situationen vid en kemikalieolycka. Även för brandfarliga kondenserade gaser, har i Brandmannaskolan föreslaget initialt riskområde modifierats.

Till version 1/2001, planerar vi att för de kondenserade giftiga och eller frätande gaserna beräkna och ange två stycken detaljerade typscenarios och med vardera två helt olika väderbetingelser för så många ämnen som möjligt i gruppen.

Inmatade värden är som följer:

1.1	Personbil 300 m. Lastbil 800 m. Byggnad eller förråd 800 m
1.2	Personbil 300 m. Lastbil 800 m. Byggnad eller förråd 800 m
1.3	100 m
1.4	50 m
1.5	50 m
1.6	50 m
Saknas	2.1A, 2.1F, 2.1O, 2.1T, 2.1TC, 2.1TF, 2.1TFC, 2.1TO, 2.1TOC 2.2A, 2.2O, 2.3A, 2.3O, 2.3TC, 2.4A, 2.4F, 2.4TC, 2.5A, 2.5F, 2.5O. 2.5T, 2.5TC, 2.5TF, 2.5TFC, 2.5TO, 2.5TOC, 2.6A, 2.6F, 2.7F, 2.7T, 2.7TF, 2.8
2.2F	300 m. Ej antänt läckage.
2.2T, 2.2TC, 2.2TF, 2.2TFC, 2.2TO, 2.2TOC,	Kondenserade gaser med giftiga egenskaper kan producera riskområden från några hundra meter upp till många kilometer. Bedöm källstyrka. Kontrollera fys- och toxdata samt väderbetingelser.
2.3F	300 m. Ej antänt läckage
Hela klass 3	50 m. Vid risk för reaktion/förgiftning 100 m.
Hela klass 4	50 m. Utökas vid risk för häftig reaktion, förbränning eller bildandet av giftig gas
Hela klass 5	50 m. Vid risk för explosion 300 m.
Hela klass 6.1	50 m för fasta ämnen och 100 m för vätskor.
Hela klass 6	50 m.
Hela klass 7	50 m. 100 mikro Sievert per timme eller minst 5 m från strålkällan.
Hela klass 8	50 m. Vid risk för reaktion eller kraftig avgångning 100 m.
Hela klass 9	50 m.

Gränsvärden i RIB, Farliga ämnen

Farliga ämnen har för version 2/2000 kompletterats med nya gränsvärden för vissa ämnen.

ERPG (Emergency Response Planning Guidelines)

ERPG är ett mått den luftburna koncentration under vilken en person efter en timmes exponering kan erhålla symtom av förgiftning. De tre nivåerna är:

ERPG-1: Den maximala koncentration för vilken de flesta personer kan vistas upp till en timme utan att erhålla mer än lindriga och reversibla symtom.

ERPG-2: Den maximala koncentration för vilken de flesta personer kan vistas upp till en timme utan att erhålla irreversibla och/eller allvarliga skador eller symtom som förhindrar personer att vidta skyddsåtgärder.

ERPG-3: Den maximala koncentration för vilken de flesta personer kan vistas upp till en timme utan att erhålla dödliga symtom/skador.

Förnimbarhet

Ett ämnes förnimbarhet är den lägsta koncentration som kan kännas av en människa.
Tänk på att förnimbarheten kan ligga både över och under de hygieniska gränsvärdena, så det är inte alltid säkert att använda sig av förnimbarhet för att upptäcka ett ämne i luften. Luktsinnet kan också bli avtrubbat av vissa ämnen så att även höga koncentrationer inte uppfattas med luktsinnet. Luktsinnet skall därför användas med omdöme och försiktighet.

IDLH (Immediately Dangerous to Life or Health)

IDLH är den maximala koncentration för vilken en person inom 30 minuter kan undkomma utan att erhålla irreversibla symtom och/eller livshotande skador.

Uttalad Lukt

Uttalad lukt är den koncentration i luft då det inte längre råder tvekan om att ämnet är närvarande. Ämnet kan alltså klart och tydligt uppfattas av luktsinnet. Men luktsinnet kan också bli avtrubbat av vissa ämnen så att även höga koncentrationer inte uppfattas med luktsinnet. Luktsinnet skall därför användas med omdöme och försiktighet.

DOCUMENTATION FOR IMMEDIATELY DANGEROUS TO LIFE OR HEALTH CONCENTRATIONS (IDLHs)*

INTRODUCTION

The "immediately dangerous to life or health air concentration values (IDLHs)" used by the National Institute for Occupational Safety and Health (NIOSH) as respirator selection criteria were first developed in the mid-1970's. The Documentation for Immediately Dangerous to Life or Health Concentrations (IDLHs) is a compilation of the rationale and sources of information used by NIOSH during the original determination of 387 IDLHs and their subsequent review and revision in 1994.

Background

Immediately Dangerous to Life or Health Conditions and Respirator Selection The concept of using respirators to protect workers in situations that are immediately dangerous to life or health was discussed at least as early as the 1940's. The following is from a U.S. Department of Labor bulletin:

> The situations for which respiratory protection is required may be designated as, (1) nonemergency and (2) emergency. Nonemergency situations are the more or less normal ones that involve exposure to atmospheres that are not immediately dangerous to health and life, but will produce marked discomfort, sickness, permanent harm, or death after a prolonged exposure or with repeated exposure. Emergency situations are those that involve actual or potential exposure to atmospheres that are immediately harmful and dangerous to health or life after comparatively short exposures. [Yant 1944]

The Occupational Safety and Health Administration (OSHA) defines an immediately dangerous to life or health concentration in their hazardous waste operations and emergency response regulation as follows:

> An atmospheric concentration of any toxic, corrosive or asphyxiant substance that poses an immediate threat to life or would cause irreversible or delayed adverse health effects or would interfere with an individual's ability to escape from a dangerous atmosphere. [29 CFR* 1910.120]

In the OSHA regulation on permit-required confined spaces, an immediately dangerous to life or health condition is defined as follows:

> Any condition that poses an immediate or delayed threat to life or that would cause irreversible adverse health effects or that would interfere with an individual's ability to escape unaided from a permit space. Note: Some materials--hydrogen fluoride gas and cadmium vapor, for example--may produce immediate transient effects that, even if severe, may pass without medical attention, but are followed by sudden, possibly fatal collapse 12-72 hours after exposure. The victim "feels normal" from recovery from transient effects until collapse. Such materials in hazardous quantities are considered to be "immediately dangerous to life or health." [29 CFR 1910.146]

As part of their current respiratory protection standard [29 CFR 1910.134(e)], OSHA requires that a standby person be present with suitable rescue equipment when self-contained breathing apparatus or hose masks with blowers are used in atmospheres immediately dangerous to life or health. Furthermore, persons using air-line respirators in atmospheres immediately hazardous to life or health must be equipped with safety harnesses and safety lines for lifting or removing workers from hazardous atmospheres.

The Standards Completion Program

In 1974, NIOSH and OSHA jointly initiated the development of occupational health standards consistent with Section 6(b) of the Occupational Safety and Health Act of 1970 for substances with then-existing OSHA permissible exposure limits (PELs). This joint effort was called the Standards Completion Program (SCP) and involved the cooperative efforts of personnel from various divisions within NIOSH and OSHA, and several contractors. The SCP developed 387 substance-specific draft standards with supporting documentation that contained technical information and recommendations needed for the promulgation of new occupational health regulations. Although new standards were not promulgated at that time, these data became the original basis for the NIOSH/OSHA Occupational Health Guidelines for Chemical Hazards [NIOSH/OSHA 1981].

As part of the respirator selection process for each draft technical standard, an IDLH was determined. The definition for an IDLH that was derived during the SCP was based on the definition stipulated in 30 CFR 11.3(t). The purpose for establishing this IDLH was to determine a concentration from which a worker could escape without injury or without irreversible health effects in the event of respiratory protection equipment failure (e.g., contaminant breakthrough in a cartridge respirator or stoppage of air flow in a supplied-air respirator) and a concentration above which only "highly reliable" respirators would be required. In determining IDLHs, the ability of a worker to escape without loss of life or irreversible health effects was considered along with severe eye or respiratory irritation and other deleterious effects (e.g., disorientation or incoordination) that could prevent escape. Although in most cases, egress from a particular worksite could occur in much less than 30 minutes, as a safety margin, IDLHs were based on the effects that might occur as a consequence of a 30-minute exposure. However, the 30-minute period was NOT meant to imply that workers should stay in the work environment any longer than necessary following the failure of respiratory protection equipment; in fact, **EVERY EFFORT SHOULD BE MADE TO EXIT IMMEDIATELY!**

IDLHs were determined for each substance during the SCP on a case-by-case basis, taking into account the toxicity data available at the time. Whenever possible, IDLHs were determined using health effects data from studies of humans exposed for short durations. However, in most instances, a lack of human data necessitated the use of animal toxicity data. When inhalation studies of animals exposed for short durations (i.e., 0.5 to 4 hours) were the only health effects data available, IDLHs were based on the lowest exposure causing death or irreversible health effects in any species. When lethal dose (LD) data from animals were used, IDLHs were estimated on the basis of an equivalent exposure to a 70-kg worker breathing 10 cubic meters of air.

Since chronic exposure data may have little relevance to acute effects, these types of data were used in determining IDLHs only when no acute toxicity data were available and only in conjunction with competent scientific judgment. In a number of instances when no relevant human or animal toxicity data were available, IDLHs were based on analogies with other substances with similar toxic effects.

Discussion of Original IDLHs

The basis for each of the 387 IDLHs determined during the SCP were reviewed and paraphrased from the individual draft technical standards for this publication. Also included is a complete listing of references cited in the SCP; in many cases where only secondary references were cited, the original sources have also been added. Whenever available, the references (secondary and primary) were obtained to verify the information cited in the SCP. However, a few of the original references such as personal communications and foreign reports could not be located.

Although 387 substances were originally included in the SCP, IDLHs were not specifically determined for all of them. The published data at that time for 40 of these substances (e.g., DDT and triphenyl phosphate) showed no evidence that an acute exposure to high concentrations would impede escape or cause any irreversible health effects following a 30-minute exposure and the designation "NO EVIDENCE" was used in the listing of IDLHs. For all of these substances, respirators were selected on the basis of assigned protection factors. For some (e.g., copper fume and tetryl), an assigned protection factor of 2,000 times the PEL was arbitrarily used to determine the concentration above which only the "most protective" respirators were permitted. However, for most particulate substances for which evidence for establishing an IDLH did not exist (e.g., ferbam and oil mist), the use of an assigned protection factor of 2,000 would have resulted in the assignment of respirators at concentrations that were not likely to be encountered in the occupational environment. In addition, exposure concentrations greater than 500 times the PEL for many airborne particulates could result in exposures that would hamper vision. Therefore, it was decided as part of the SCP (and during the review and revision of the IDLHs) that for such particulate substances, only the "most protective" respirators would be permitted for use in concentrations exceeding 500 times the PEL.

IDLHs could not be determined during the SCP for 22 substances (e.g., bromoform and calcium oxide) because of a lack of relevant toxicity data and therefore the designation "UNKNOWN" was used in the IDLH listing. For most of these substances, the concentrations above which only the "most protective" respirators were allowed were based arbitrarily on assigned protection factors that ranged from 10 to 2,000 times the PEL, depending on the substance. There were also 10 substances (e.g., n-pentane and ethyl ether) for which it was determined only that the IDLHs were in excess of the lower explosive limits (LELs). Therefore, the LEL was selected as the IDLH with the designation "LEL" added in the IDLH listing. For these substances, only the "most protective" respirators were permitted above the LEL in the SCP draft technical standards.

For 14 substances (e.g., beryllium and endrin), the IDLHs determined during the SCP were greater than the concentrations permitted based on assigned respiratory protection factors. In most instances the IDLHs for these substances were set at concentrations 2,000 times the PEL.

Current NIOSH Use of IDLHs

The current NIOSH definition for an immediately dangerous to life or health condition, as given in the *NIOSH Respirator Decision Logic* [NIOSH 1987], is a situation "that poses a threat of exposure to airborne contaminants when that exposure is likely to cause death or immediate or delayed permanent adverse health effects or prevent escape from such an environment." It is also stated that the purpose of establishing an IDLH is to "ensure that the worker can escape from a given contaminated environment in the event of failure of the respiratory protection equipment." The NIOSH respirator decision logic uses an IDLH as one of several respirator selection criteria. Under the NIOSH respirator decision logic, "highly reliable" respirators (i.e., the most protective respirators) would be selected for emergency situations, fire fighting, exposure to carcinogens, entry into oxygen-deficient atmospheres, entry into atmospheres that contain a substance at a concentration greater than 2,000 times the NIOSH REL or OSHA PEL, and for entry into

immediately dangerous to life or health conditions. These "highly reliable" respirators include either a self-contained breathing apparatus (SCBA) that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode, or a supplied-air respirator that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary SCBA operated in a pressure-demand or other positive-pressure mode.

When the IDLHs were developed in the mid-1970's, only limited toxicological data were available for many of the substances. NIOSH has recently requested information on the current uses of IDLHs in the workplace and on the scientific adequacy of the criteria and procedures originally used for establishing them [Federal Register, Volume 58, Number 229, p. 63379, Wednesday, December 1, 1993]. The information received in response to the Federal Register announcement is being evaluated and will be used to establish future actions concerning IDLHs. In the interim, however, NIOSH decided to review the existing IDLHs, and revise them as appropriate.

This document includes IDLHs for 85 substances (e.g., benzene and methylene chloride) determined by NIOSH to meet the OSHA definition of "potential occupational carcinogen" as given in 29 CFR 1990.103. For all of these substances, except ethylene oxide and crystalline silica, NIOSH recommends that the "most protective" respirators be worn by workers exposed at concentrations above the NIOSH REL, or at any detectable concentration when there is no REL. For ethylene oxide and crystalline silica, NIOSH recommends that the "most protective" respirators be worn in concentrations exceeding 5 ppm and 25 mg/m3, respectively [NIOSH 1989, 1994].

Revised Criteria for Determining IDLHs

The criteria utilized to determine the adequacy of existing IDLHs were a combination of those used during the SCP and a newer methodology developed by NIOSH. These criteria form a tiered approach with acute human toxicity data being used preferentially, followed next by acute animal inhalation toxicity data, and then finally by acute animal oral toxicity data to determine an updated IDLH. When relevant acute toxicity data were insufficient or unavailable, then the use of chronic toxicity data or an analogy to a chemical with similar toxic effects was considered. In order to facilitate the revision process, secondary toxicological data were primarily used. Once a preliminary IDLH was developed, it was compared to the existing IDLH and to several other factors (e.g., existing short-term exposure guidelines and lower explosive limits).

The following "hierarchy" was followed to develop a "preliminary" value for the revised IDLH:

A.Human acute toxicity data were used if sufficient to determine a concentration that for up to 30 minutes does not cause death, serious or irreversible health effects, or does not impair or impede the ability to escape.

B.Animal acute lethal concentration (LC) data were considered next. The only animal lethal concentration data used involved mammals; the vast majority of the data was from studies of rats, mice, guinea pigs, and hamsters. It was decided to generally use the lowest reliable LC data, with LC50 data preferred. If acute LC data determined during a 30-minute period were not available, then the data, based on a study by ten Berge et al. [1986], were "adjusted" to an equivalent 30-minute value using the following relationship:

$$Adjusted\ LC50\ (30\ minutes) = LC50(t) * (t/0.5)^{**} (1/n)$$

where: LC50(t) = LC50 determined over t hours

n = constant*

*Note: ten Berge et al. [1986] determined the relationship shown above based on experimental data. The constant "n" was determined by ten Berge et al. to be less

than 3.0 for 18 of the 20 substances studied. Although the individual "n" values determined by ten Berge et al. [1986] were utilized when applicable during the review and revision of the original IDLHs, as a conservative estimate, an "n" = 3.0 was assumed when "adjusting" the LC data to 30 minutes for all other substances.

This equation with an "n" = 3.0 results in the following correction factors:

t(hours)	correction factor
O.5	1.0
1	1.25
2	1.6
3	1.8
4	2.0
5	2.15
6	2.3
7	2.4
8	2.5

The LC values (after "adjusting" if necessary to 30 minutes) were divided by a safety factor of 10 to determine a "preliminary" IDLH for comparison purposes.

C.Animal lethal dose (LD) data were considered next. As was the case with the lethal concentration data, the only animal lethal dose data used involved mammals; the vast majority of the data were from studies of rats, mice, guinea pigs, and hamsters. It was decided to generally use the lowest LD data with oral LD50 data preferred. The LD data was used to determine the equivalent total dose to a 70-kg worker and, as was done during the SCP, the air concentration containing this dose was determined by dividing by 10 cubic meters. [Note: A worker breathing at a rate of 50 liters per minute for 30 minutes would inhale 1.5 cubic meters of air.] A "preliminary" IDLH for comparison purposes was determined by dividing these air concentrations by a safety factor of 10.

D. Chronic toxicity data were considered if no relevant acute toxicity data existed. However, the fact that chronic exposures may have limited relevance to acute effects was taken into consideration.

E. When relevant toxicity data applying specifically to the chemicals in question were lacking, and if it was determined to be justified, then analogies to substances with similar acute toxic effects were considered.

F. All "preliminary" IDLHs derived during this update were checked against the following factors prior to establishing the final "revised" IDLH:

1. Lower explosive limit (LEL): It was decided to restrict the "routine" entry into a possible explosive atmosphere to concentrations no greater than 10% of the LEL. [Note: SCP-derived IDLHs were set at 100% of the LELs if there were no known serious health hazards below these values. However, OSHA considers concentrations in excess of 10% of the LEL to be a hazardous atmosphere in confined spaces [29 CFR 1910.146(b)].]
2. RD50 data: An RD50 is defined as the 10-minute exposure concentration producing a 50% respiratory rate decrease in mice or rats and can be used to estimate severe respiratory irritation. Prolonged exposure to an RD50 concentration has been shown to produce respiratory tract lesions consistent with irritation [Alarie 1981; Buckley et al. 1984].
3. Other short-term exposure guidelines such as the American Industrial Hygiene Association's emergency response planning guidelines (ERPGs) and the National Research Council's emergency exposure guidance levels (EEGLs) and short-term public emergency guidance levels (SPEGLs), and occupational exposure standards or recommendations such as OSHA PELs, NIOSH RELs, or the American Conference of Governmental Industrial Hygienists (ACGIH) TLVs.
4. Based on the NIOSH respirator decision logic, the revised IDLHs could not be greater than 2,000 times the NIOSH REL (or OSHA PEL).
5. The revised IDLHs would not be greater than the original IDLHs derived during the SCP.

Anyone who is aware of additional published data that may affect the IDLHs determined for particular substances is encouraged to make this information available to NIOSH. All data will be reviewed and consideration will be made regarding subsequent revision of the IDLHs.

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DOCUMENTATION FOR IMMEDIATELY DANGEROUS TO LIFE OR HEALTH CONCENTRATIONS (IDLHs)*

NIOSH CHEMICAL LISTING AND DOCUMENTATION OF REVISED IDLH VALUES (AS OF 3/1/95)

Questions should be directed to: Heinz Ahlers [NIOSH, Taft Laboratories, MS-C31, 4676 Columbia Parkway, Cincinnati, Ohio 45226 (513-533-8407)].

SUBSTANCE	ORIGINAL IDLH VALUE	REVISED IDLH VALUE
Acetaldehyde	10,000 ppm	2,000 ppm
Acetic acid	1,000 ppm	50 ppm
Acetic anhydride	1,000 ppm	200 ppm
Acetone	20,000 ppm	2,500 ppm [LEL]
Acetonitrile	4,000 ppm	500 ppm
Acetylene tetrabromide	10 ppm	8 ppm
Acrolein	5 ppm	2 ppm
Acrylamide	Unknown	60 mg/m^3
Acrylonitrile	500 ppm	85 ppm
Aldrin	100 mg/m^3	25 mg/m^3
Allyl alcohol	150 ppm	20 ppm
Allyl chloride	300 ppm	250 ppm
Allyl glycidyl ether	270 ppm	50 ppm
2 Aminopyridine	5 ppm	5 ppm [Unch]
Ammonia	500 ppm	300 ppm
Ammonium sulfamate	5,000 mg/m^3	1,500 mg/m^3
n-Amyl acetate	4,000 ppm	1,000 ppm
sec-Amyl acetate	9,000 ppm	1,000 ppm
Aniline	100 ppm	100 ppm [Unch]
o-Anisidine	50 mg/m^3	50 mg/m^3 [Unch]
p-Anisidine	50 mg/m^3	50 mg/m^3 [Unch]
Antimony compounds (as Sb)	80 mg Sb/m^3	50 mg Sb/m^3
ANTU	100 mg/m^3	100 mg/m^3 [Unch]
Arsenic (inorganic compounds, as As)	100 mg As/m^3	5 mg As/m^3
Arsine	6 ppm	3 ppm

Azinphosmethyl	20 mg/m^3	10 mg/m^3
Barium (soluble compounds, as Ba)	1,100 mg Ba/m^3	50 mg Ba/m^3
Benzene	3,000 ppm	500 ppm
Benzoyl peroxide	7,000 mg/m^3	1,500 mg/m^3
Benzyl chloride	10 ppm	10 ppm [Unch]
Beryllium compounds (as Be)	10 mg Be/m^3	4 mg Be/m^3
Boron oxide	N.E.	2,000 mg/m^3
Boron trifluoride	100 ppm	25 ppm
Bromine	10 ppm	3 ppm
Bromoform	Unknown	850 ppm
1,3-Butadiene	20,000 ppm [LEL]	2,000 ppm [LEL]
2-Butanone	3,000 ppm	3,000 ppm [Unch]
2-Butoxyethanol	700 ppm	700 ppm [Unch]
n-Butyl acetate	10,000 ppm	1,700 ppm [LEL]
sec-Butyl acetate	10,000 ppm	1,700 ppm [LEL]
tert-Butyl acetate	10,000 ppm	1,500 ppm [LEL]
n-Butyl alcohol	8,000 ppm	1,400 ppm [LEL]
sec-Butyl alcohol	10,000 ppm	2,000 ppm
tert-Butyl alcohol	8,000 ppm	1,600 ppm
n-Butylamine	2,000 ppm	300 ppm
tert-Butyl chromate	30 mg/m^3 (as CrO3)	15 mg Cr(VI)/m^3
n-Butyl glycidyl ether	3,500 ppm	250 ppm
n-Butyl mercaptan	2,500 ppm	500 ppm
p-tert-Butyltoluene	1,000 ppm	100 ppm
Cadmium dust (as Cd)	50 mg Cd/m^3	9 mg Cd/m^3
Cadmium fume (as Cd)	9 mg Cd/m^3	9 mg Cd/m^3[Unc h]
Calcium arsenate (as As)	100 mg As/m^3	5 mg As/m^3
Calcium oxide	Unknown	25 mg/m^3
Camphor (synthetic)	200 mg/m^3	200 mg/m^3 [Unch]
Carbaryl	600 mg/m^3	100 mg/m^3
Carbon black	N.E.	1,750 mg/m^3
Carbon dioxide	50,000 ppm	40,000 ppm
Carbon disulfide	500 ppm	500 ppm [Unch]

Carbon monoxide	1,500 ppm	1,200 ppm
Carbon tetrachloride	300 ppm	200 ppm
Chlordane	500 mg/m^3	100 mg/m^3
Chlorinated camphene	200 mg/m^3	200 mg/m^3 [Unch]
Chlorinated diphenyl oxide	Unknown	5 mg/m^3
Chlorine	30 ppm	10 ppm
Chlorine dioxide	10 ppm	5 ppm
Chlorine trifluoride	20 ppm	20 ppm [Unch]
Chloroacetaldehyde	100 ppm	45 ppm
alpha-Chloroacetophenone	100 mg/m^3	15 mg/m^3
Chlorobenzene	2,400 ppm	1,000 ppm
o-Chlorobenzylidene malononitrile	2 mg/m^3	2 mg/m^3 [Unch]
Chlorobromomethane	5,000 ppm	2,000 ppm
Chlorodiphenyl (42% chlorine)	10 mg/m^3	5 mg/m^3
Chlorodiphenyl (54% chlorine)	5 mg/m^3	5 mg/m^3 [Unch]
Chloroform	1,000 ppm	500 ppm
1-Chloro-1-nitropropane	2,000 ppm	100 ppm
Chloropicrin	4 ppm	2 ppm
beta-Chloroprene	400 ppm	300 ppm
Chromic acid and chromates	30 mg/m^3 (as CrO3)	15 mg Cr(VI)/m^3
Chromium (II) compounds [as Cr(II)]	N.E.	250 mg Cr(II)/m^3
Chromium (III) compounds [as Cr(III)]	N.E.	25 mg Cr(III)/m^3
Chromium metal (as Cr)	N.E.	250 mg Cr/m^3
Coal tar pitch volatiles	700 mg/m^3	80 mg/m^3
Cobalt metal, dust and fume (as Co)	20 mg Co/m^3	20 mg Co/m^3 [Unch]
Copper (dusts and mists, as Cu)	N.E.	100 mg Cu/m^3
Copper fume (as Cu)	N.E.	100 mg Cu/m^3
Cotton dust (raw)	N.E.	100 mg/m^3
Crag (r) herbicide	5,000 mg/m^3	500 mg/m^3
Cresol (o, m, p isomers)	250 ppm	250 ppm [Unch]
Crotonaldehyde	400 ppm	50 ppm
Cumene	8,000 ppm	900 ppm [LEL]
Cyanides (as CN)	50 mg/m^3 (as CN)	25 mg/m^3 (as CN)
Cyclohexane	10,000 ppm	1,300 ppm [LEL]
Cyclohexanol	3,500 ppm	400 ppm

Cyclohexanone	5,000 ppm	700 ppm
Cyclohexene	10,000 ppm	2,000 ppm
Cyclopentadiene	2,000 ppm	750 ppm
2,4-D	500 mg/m^3	100 mg/m^3
DDT	N.E.	500 mg/m^3
Decaborane	100 mg/m^3	15 mg/m^3
Demeton	20 mg/m^3	10 mg/m^3
Diacetone alcohol	2,100 ppm	1,800 ppm [LEL]
Diazomethane	2 ppm	2 ppm [Unch]
Diborane	40 ppm	15 ppm
Dibutyl phosphate	125 ppm	30 ppm
Dibutyl phthalate	9,300 mg/m^3	4,000 mg/m^3
o-Dichlorobenzene	1,000 ppm	200 ppm
p-Dichlorobenzene	1,000 ppm	150 ppm
Dichlorodifluoromethane	50,000 ppm	15,000 ppm
1,3-Dichloro 5,5-dimethylhydantoin	Unknown	5 mg/m^3
1,1-Dichloroethane	4,000 ppm	3,000 ppm
1,2-Dichloroethylene	4,000 ppm	1,000 ppm
Dichloroethyl ether	250 ppm	100 ppm
Dichloromonofluoromethane	50,000 ppm	5,000 ppm
1,1-Dichloro 1-nitroethane	150 ppm	25 ppm
Dichlorotetrafluoroethane	50,000 ppm	15,000 ppm
Dichlorvos	200 mg/m^3	100 mg/m^3
Dieldrin	450 mg/m^3	50 mg/m^3
Diethylamine	2,000 ppm	200 ppm
2-Diethylaminoethanol	500 ppm	100 ppm
Difluorodibromomethane	2,500 ppm	2,000 ppm
Diglycidyl ether	25 ppm	10 ppm
Diisobutyl ketone	2,000 ppm	500 ppm
Diisopropylamine	1,000 ppm	200 ppm
Dimethyl acetamide	400 ppm	300 ppm
Dimethylamine	2,000 ppm	500 ppm
N,N-Dimethylaniline	100 ppm	100 ppm [Unch]
Dimethyl 1,2-dibromo 2,2-dichlorethyl phosphate	1,800 mg/m^3	200 mg/m^3
Dimethylformamide	3,500 ppm	500 ppm
1,1-Dimethylhydrazine	50 ppm	15 ppm
Dimethylphthalate	9,300 mg/m^3	2,000 mg/m^3
Dimethyl sulfate	10 ppm	7 ppm
Dinitrobenzene (o, m, p isomers)	200 mg/m^3	50 mg/m^3
Dinitroocresol	5 mg/m^3	5 mg/m^3 [Unch]

Dinitrotoluene	200 mg/m^3	50 mg/m^3
Di sec-octyl phthalate	Unknown	5,000 mg/m^3
Dioxane	2,000 ppm	500 ppm
Diphenyl	300 mg/m^3	100 mg/m^3
Dipropylene glycol methyl ether	Unknown	600 ppm
Endrin	2,000 mg/m^3	2 mg/m^3
Epichlorohydrin	250 ppm	75 ppm
EPN	50 mg/m^3	5 mg/m^3
Ethanolamine	1,000 ppm	30 ppm
2-Ethoxyethanol	6,000 ppm	500 ppm
2-Ethoxyethyl acetate	2,500 ppm	500 ppm
Ethyl acetate	10,000 ppm	2,000 ppm [LEL]
Ethyl acrylate	2,000 ppm	300 ppm
Ethyl alcohol	15,000 ppm	3,300 ppm [LEL]
Ethylamine	4,000 ppm	600 ppm
Ethyl benzene	2,000 ppm	800 ppm [LEL]
Ethyl bromide	3,500 ppm	2,000 ppm
Ethyl butyl ketone	3,000 ppm	1,000 ppm
Ethyl chloride	20,000 ppm	3,800 ppm [LEL]
Ethylene chlorohydrin	10 ppm	7 ppm
Ethylenediamine	2,000 ppm	1,000 ppm
Ethylene dibromide	400 ppm	100 ppm
Ethylene dichloride	1,000 ppm	50 ppm
Ethylene glycol dinitrate	500 mg/m^3	75 mg/m^3
Ethyleneimine	100 ppm	100 ppm [Unch]
Ethylene oxide	800 ppm	800 ppm [Unch]
Ethyl ether	19,000 ppm [LEL]	1,900 ppm [LEL]
Ethyl formate	8,000 ppm	1,500 ppm
Ethyl mercaptan	2,500 ppm	500 ppm
N-Ethylmorpholine	2,000 ppm	100 ppm
Ethyl silicate	1,000 ppm	700 ppm
Ferbam	N.E.	800 mg/m^3
Ferrovanadium dust	N.E.	500 mg/m^3
Fluorides (as F)	500 mg F/m^3	250 mg F/m^3
Fluorine	25 ppm	25 ppm [Unch]
Fluorotrichloromethane	10,000 ppm	2,000 ppm
Formaldehyde	30 ppm	20 ppm
Formic acid	30 ppm	30 ppm [Unch]

Furfural	250 ppm	100 ppm
Furfuryl alcohol	250 ppm	75 ppm
Glycidol	500 ppm	150 ppm
Graphite (natural)	N.E.	1,250 mg/m^3
Hafnium compounds (as Hf)	Unknown	50 mg Hf/m^3
Heptachlor	700 mg/m^3	35 mg/m^3
n-Heptane	5,000 ppm	750 ppm
Hexachloroethane	300 ppm	300 ppm [Unch]
Hexachloronaphthalene	2 mg/m^3	2 mg/m^3 [Unch]
n-Hexane	5,000 ppm	1,100 ppm [LEL]
2-Hexanone	5,000 ppm	1,600 ppm
Hexone	3,000 ppm	500 ppm
sec Hexyl acetate	4,000 ppm	500 ppm
Hydrazine	80 ppm	50 ppm
Hydrogen bromide	50 ppm	30 ppm
Hydrogen chloride	100 ppm	50 ppm
Hydrogen cyanide	50 ppm	50 ppm [Unch]
Hydrogen fluoride (as F)	30 ppm	30 ppm [Unch]
Hydrogen peroxide	75 ppm	75 ppm [Unch]
Hydrogen selenide (as Se)	2 ppm	1 ppm
Hydrogen sulfide	300 ppm	100 ppm
Hydroquinone	Unknown	50 mg/m^3
Iodine	10 ppm	2 ppm
Iron oxide dust and fume (as Fe)	N.E.	2,500 mg Fe/m^3
Isoamyl acetate	3,000 ppm	1,000 ppm
Isoamyl alcohol (primary and secondary)	10,000 ppm	500 ppm
Isobutyl acetate	7,500 ppm	1,300 ppm [LEL]
Isobutyl alcohol	8,000 ppm	1,600 ppm
Isophorone	800 ppm	200 ppm
Isopropyl acetate	16,000 ppm	1,800 ppm
Isopropyl alcohol	12,000 ppm	2,000 ppm [LEL]
Isopropylamine	4,000 ppm	750 ppm
Isopropyl ether	10,000 ppm	1,400 ppm [LEL]
Isopropyl glycidyl ether	1,000 ppm	400 ppm
Ketene	Unknown	5 ppm
Lead compounds (as Pb)	700 mg Pb/m^3	100 mg Pb/m^3
Lindane	1,000 mg/m^3	50 mg/m^3
Lithium hydride	55 mg/m^3	0.5 mg/m^3

L.P.G.	19,000 ppm [LEL]	2,000 ppm [LEL]
Magnesium oxide fume	N.E.	750 mg/m^3
Malathion	5,000 mg/m^3	250 mg/m^3
Maleic anhydride	Unknown	10 mg/m^3
Manganese compounds (as Mn)	N.E.	500 mg Mn/m^3
Mercury compounds [except (organo) alkyls, as Hg]	28 mg Hg/m^3	10 mg Hg/m^3
Mercury (organo) alkyl compounds(as Hg)	10 mg Hg/m^3	2 mg Hg/m^3
Mesityl oxide	5,000 ppm	1,400 ppm [LEL]
Methoxychlor	N.E.	5,000 mg/m^3
Methyl acetate	10,000 ppm	3,100 ppm [LEL]
Methyl acetylene	15,000 ppm [LEL]	1,700 ppm [LEL]
Methyl acetylenepropadiene mixture	15,000 ppm	3,400 ppm [LEL]
Methyl acrylate	1,000 ppm	250 ppm
Methylal	15,000 ppm [LEL]	2,200 ppm [LEL]
Methyl alcohol	25,000 ppm	6,000 ppm
Methylamine	100 ppm	100 ppm [Unch]
Methyl (namyl) ketone	4,000 ppm	800 ppm
Methyl bromide	2,000 ppm	250 ppm
Methyl Cellosolve (r)	2,000 ppm	200 ppm
Methyl Cellosolve (r) acetate	4,000 ppm	200 ppm
Methyl chloride	10,000 ppm	2,000 ppm
Methyl chloroform	1,000 ppm	700 ppm
Methylcyclohexane	10,000 ppm	1,200 ppm [LEL]
Methylcyclohexanol	10,000 ppm	500 ppm
o-Methylcyclohexanone	2,500 ppm	600 ppm
Methylene bisphenyl isocyanate	100 mg/m^3	75 mg/m^3
Methylene chloride	5,000 ppm	2,300 ppm
Methyl formate	5,000 ppm	4,500 ppm
5-Methyl 3-heptanone	3,000 ppm	100 ppm
Methyl hydrazine	50 ppm	20 ppm
Methyl iodide	800 ppm	100 ppm
Methyl isobutyl carbinol	2,000 ppm	400 ppm
Methyl isocyanate	20 ppm	3 ppm
Methyl mercaptan	400 ppm	150 ppm

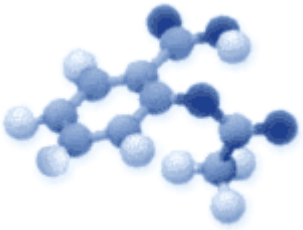
Methyl methacrylate	4,000 ppm	1,000 ppm
Methyl styrene	5,000 ppm	700 ppm
Mica	N.E.	1,500 mg/m^3
Molybdenum (insoluble compounds, as Mo)	N.E.	5,000 mg Mo/m^3
Molybdenum (soluble compounds, as Mo)	N.E.	1,000 mg Mo/m^3
Monomethyl aniline	100 ppm	100 ppm [Unch]
Morpholine	8,000 ppm	1,400 ppm [LEL]
Naphtha (coal tar)	10,000 ppm [LEL]	1,000 ppm [LEL]
Naphthalene	500 ppm	250 ppm
Nickel carbonyl (as Ni)	7 ppm	2 ppm
Nickel metal and other compounds (as Ni)	N.E.	10 mg Ni/m^3
Nicotine	35 mg/m^3	5 mg/m^3
Nitric acid	100 ppm	25 ppm
Nitric oxide	100 ppm	100 ppm [Unch]
p-Nitroaniline	300 mg/m^3	300 mg/m^3 [Unch]
Nitrobenzene	200 ppm	200 ppm [Unch]
p-Nitrochlorobenzene	1,000 mg/m^3	100 mg/m^3
Nitroethane	1,000 ppm	1,000 ppm [Unch]
Nitrogen dioxide	50 ppm	20 ppm
Nitrogen trifluoride	2,000 ppm	1,000 ppm
Nitroglycerine	500 mg/m^3	75 mg/m^3
Nitromethane	1,000 ppm	750 ppm
1-Nitropropane	2,300 ppm	1,000 ppm
2-Nitropropane	2,300 ppm	100 ppm
Nitrotoluene (o, m, p isomers)	200 ppm	200 ppm [Unch]
Octachloronaphthalene	Unknown	Unknown [Unch]
Octane	5,000 ppm	1,000 ppm [LEL]
Oil mist (mineral)	N.E.	2,500 mg/m^3
Osmium tetroxide (as Os)	1 mg Os/m^3	1 mg Os/m^3 [Unch]
Oxalic acid	500 mg/m^3	500 mg/m^3 [Unch]
Oxygen difluoride	0.5 ppm	0.5 ppm [Unch]
Ozone	10 ppm	5 ppm
Paraquat	1.5 mg/m^3	1 mg/m^3
Parathion	20 mg/m^3	10 mg/m^3

Pentaborane	3 ppm	1 ppm
Pentachloronaphthalene	Unknown	Unknown [Unch]
Pentachlorophenol	150 mg/m^3	2.5 mg/m^3
n-Pentane	15,000 ppm [LEL]	1,500 ppm [LEL]
2-Pentanone	5,000 ppm	1,500 ppm
Perchloromethyl mercaptan	10 ppm	10 ppm [Unch]
Perchloryl fluoride	385 ppm	100 ppm
Petroleum distillates (naphtha)	10,000 ppm	1,100 ppm [LEL]
Phenol	250 ppm	250 ppm [Unch]
p-Phenylene diamine	Unknown	25 mg/m^3
Phenyl ether (vapor)	N.E.	100 ppm
Phenyl etherbiphenyl mixture (vapor)	N.E.	10 ppm
Phenyl glycidyl ether	Unknown	100 ppm
Phenylhydrazine	295 ppm	15 ppm
Phosdrin	4 ppm	4 ppm [Unch]
Phosgene	2 ppm	2 ppm [Unch]
Phosphine	200 ppm	50 ppm
Phosphoric acid	10,000 mg/m^3	1,000 mg/m^3
Phosphorus (yellow)	N.E.	5 mg/m^3
Phosphorus pentachloride	200 mg/m^3	70 mg/m^3
Phosphorus pentasulfide	750 mg/m^3	250 mg/m^3
Phosphorus trichloride	50 ppm	25 ppm
Phthalic anhydride	10,000 mg/m^3	60 mg/m^3
Picric acid	100 mg/m^3	75 mg/m^3
Pindone	200 mg/m^3	100 mg/m^3
Platinum (soluble salts, as Pt)	N.E.	4 mg Pt/m^3
Portland cement	N.E.	5,000 mg/m^3
Propane	20,000 ppm [LEL]	2,100 ppm [LEL]
n-Propyl acetate	8,000 ppm	1,700 ppm
n-Propyl alcohol	4,000 ppm	800 ppm
Propylene dichloride	2,000 ppm	400 ppm
Propylene imine	500 ppm	100 ppm
Propylene oxide	2,000 ppm	400 ppm
n-Propyl nitrate	2,000 ppm	500 ppm
Pyrethrum	5,000 mg/m^3	5,000 mg/m^3 [Unch]
Pyridine	3,600 ppm	1,000 ppm
Quinone	300 mg/m^3	100 mg/m^3

Rhodium (metal fume and insoluble compounds, as Rh)	N.E.	100 mg Rh/m^3
Rhodium (soluble compounds, as Rh)	N.E.	2 mg Rh/m^3
Ronnel	5,000 mg/m^3	300 mg/m^3
Rotenone	Unknown	2,500 mg/m^3
Selenium compounds (as Se)	Unknown	1 mg Se/m^3
Selenium hexafluoride	5 ppm	2 ppm
Silica, amorphous	N.E.	3,000 mg/m^3
Silica, crystalline (respirable dust)	N.E.	
cristobalite/tridymite:		25 mg/m^3
quartz/tripoli:		50 mg/m^3
Silver (metal dust and soluble compounds, as Ag)	N.E.	10 mg Ag/m^3
Soapstone	N.E.	3,000 mg/m^3
Sodium fluoroacetate	5 mg/m^3	2.5 mg/m^3
Sodium hydroxide	250 mg/m^3	10 mg/m^3
Stibine	40 ppm	5 ppm
Stoddard solvent	29,500 mg/m^3	20,000 mg/m^3
Strychnine	3 mg/m^3	3 mg/m^3 [Unch]
Styrene	5,000 ppm	700 ppm
Sulfur dioxide	100 ppm	100 ppm [Unch]
Sulfuric acid	80 mg/m^3	15 mg/m^3
Sulfur monochloride	10 ppm	5 ppm
Sulfur pentafluoride	1 ppm	1 ppm [Unch]
Sulfuryl fluoride	1,000 ppm	200 ppm
2,4,5-T	Unknown	250 mg/m^3
Talc	N.E.	1,000 mg/m^3
Tantalum (metal and oxide dust, as Ta)	N.E.	2,500 mg Ta/m^3
TEDP	35 mg/m^3	10 mg/m^3
Tellurium compounds (as Te)	N.E.	25 mg Te/m^3
Tellurium hexafluoride	1 ppm	1 ppm [Unch]
TEPP	10 mg/m^3	5 mg/m^3
Terphenyl (o, m, p isomers)	Unknown	500 mg/m^3
1,1,1,2-Tetrachloro 2,2-difluoroethane	15,000 ppm	2,000 ppm
1,1,2,2-Tetrachloro 1,2-difluoroethane	15,000 ppm	2,000 ppm
1,1,2,2-Tetrachloroethane	150 ppm	100 ppm
Tetrachloroethylene	500 ppm	150 ppm
Tetrachloronaphthalene	Unknown	Unknown [Unch]
Tetraethyl lead (as Pb)	40 mg Pb/m^3	40 mg Pb/m^3 [Unch]
Tetrahydrofuran	20,000 ppm	2,000 ppm

	[LEL]	[LEL]
Tetramethyl lead (as Pb)	40 mg Pb/m^3	40 mg Pb/m^3 [Unch]
Tetramethyl succinonitrile	5 ppm	5 ppm [Unch]
Tetranitromethane	5 ppm	4 ppm
Tetryl	N.E.	750 mg/m^3
Thallium (soluble compounds, as Tl)	20 mg Tl/m^3	15 mg Tl/m^3
Thiram	1,500 mg/m^3	100 mg/m^3
Tin (inorganic compounds, as Sn)	400 mg Sn/m^3	100 mg Sn/m^3
Tin (organic compounds, as Sn)	Unknown	25 mg Sn/m^3
Titanium dioxide	N.E.	5,000 mg/m^3
Toluene	2,000 ppm	500 ppm
Toluene 2,4-diisocyanate	10 ppm	2.5 ppm
o-Toluidine	100 ppm	50 ppm
Tributyl phosphate	125 ppm	30 ppm
1,1,2-Trichloroethane	500 ppm	100 ppm
Trichloroethylene	1,000 ppm	1,000 ppm [Unch]
Trichloronaphthalene	Unknown	Unknown [Unch]
1,2,3-Trichloropropane	1,000 ppm	100 ppm
1,1,2-Trichloro 1,2,2-trifluoroethane	4,500 ppm	2,000 ppm
Triethylamine	1,000 ppm	200 ppm
Trifluorobromomethane	50,000 ppm	40,000 ppm
2,4,6-Trinitrotoluene	1,000 mg/m^3	500 mg/m^3
Triorthocresyl phosphate	40 mg/m^3	40 mg/m^3 [Unch]
Triphenyl phosphate	N.E.	1,000 mg/m^3
Turpentine	1,500 ppm	800 ppm
Uranium (insoluble compounds, as U)	30 mg U/m^3	10 mg U/m^3
Uranium (soluble compounds, as U)	20 mg U/m^3	10 mg U/m^3
Vanadium dust	70 mg/m^3 (as V2O5)	35 mg V/m^3
Vanadium fume	70 mg/m^3 (as V2O5)	35 mg V/m^3
Vinyl toluene	5,000 ppm	400 ppm
Warfarin	350 mg/m^3	100 mg/m^3
Xylene (o, m, p isomers)	1,000 ppm	900 ppm
Xylidine	150 ppm	50 ppm
Yttrium compounds (as Y)	N.E.	500 mg Y/m^3
Zinc chloride fume	4,800 mg/m^3	50 mg/m^3
Zinc oxide	2,500 mg/m^3	500 mg/m^3

Zirconium compounds (as Zr)	500 mg Zr/m^3	50 mg Zr/m^3



Definitions for Different TEEL Levels

Definitions for the different TEEL levels are based on those for **Emergency Response Planning Guidelines (ERPGs)**, which follow:

ERPG-1 The maximum concentration in air below which it is believed nearly all individuals could be exposed for up to one hour without experiencing other than mild transient adverse health effects or perceiving a clearly defined objectionable odor;

ERPG-2 The maximum concentration in air below which it is believed nearly all individuals could be exposed for up to one hour without experiencing or developing irreversible or other serious health effects or symptoms that could impair their abilities to take protective action;

ERPG-3 The maximum concentration in air below which it is believed nearly all individuals could be exposed for up to one hour without experiencing or developing life-threatening health effects.

Temporary Emergency Exposure Limits (TEELs):

TEEL-0 The threshold concentration below which most people will experience no appreciable risk of health effects;

TEEL-1 The maximum concentration in air below which it is believed nearly all individuals could be exposed without experiencing other than mild transient adverse health effects or perceiving a clearly defined objectionable odor.

TEEL-2 The maximum concentration in air below which it is believed nearly all individuals could be exposed without experiencing or developing irreversible or other serious health effects or symptoms that could impair their abilities to take protective action;

TEEL-3 The maximum concentration in air below which it is believed nearly all individuals could be exposed without experiencing or developing life-threatening health effects.

It is recommended that, for application of TEELs, the concentration at the receptor point of interest be calculated as the peak 15-minute time-weighted average concentration. It should be emphasized that TEELs are default values, following the published methodology (on SCAPA's web page) explicitly. The only judgment involved is that exercised in the extraction of data that is entered in the Excel Workbook used to automatically calculate the recommended TEELs.

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NIOSH

The National Institute for Occupational Safety and Health (NIOSH) is the Federal agency responsible for conducting research and making recommendations for the prevention of work-related disease and injury. The Institute is part of the Centers for Disease Control and Prevention (CDC).

NIOSH is responsible for conducting research on the full scope of occupational disease and injury ranging from lung disease in miners to carpal tunnel syndrome in computer users. In addition to conducting research, NIOSH

- investigates potentially hazardous working conditions when requested by employers or employees.
- makes recommendations and disseminates information on preventing workplace disease, injury, and disability.
- provides training to occupational safety and health professionals.

NIOSH is a diverse organization made up of employees representing a wide range of disciplines including industrial hygiene, nursing, epidemiology, engineering, medicine, and statistics.

Headquartered in Washington D.C., NIOSH has offices in Atlanta, Georgia and research divisions in Cincinnati, Ohio; Morgantown, West Virginia; Bruceton, Pennsylvania; and Spokane, Washington.

BACKGROUND

In 1974, NIOSH (which is responsible for recommending health and safety standards) joined OSHA (whose jurisdictions include promulgation and enforcement activities) in developing a series of occupational health standards for substances with existing PELs. This joint effort was labeled the Standards Completion Program and involved the cooperative efforts of several contractors and personnel from various divisions within NIOSH and OSHA. The Standards Completion Program developed 380 substance-specific draft standards with supporting documentation that contained technical information and recommendations needed for the promulgation of new occupational health regulations. The Pocket Guide was developed to make the technical information in those draft standards more conveniently available to workers, employers, and occupational health professionals. The Pocket Guide is updated periodically to reflect new data regarding the toxicity of various substances and any changes in exposure standards or recommendations.

Data Collection and Application

The data collected for this revision were derived from a variety of sources, including NIOSH policy documents such as criteria documents and Current Intelligence Bulletins (CIBs), and recognized references in the fields of industrial hygiene, occupational medicine, toxicology, and analytical chemistry.

NIOSH RECOMMENDATIONS

Acting under the authority of the Occupational Safety and Health Act of 1970 (29 USC Chapter 15) and the Federal Mine Safety and Health Act of 1977 (30 USC Chapter 22), NIOSH develops and periodically revises recommended exposure limits (RELs) for

hazardous substances or conditions in the workplace. NIOSH also recommends appropriate preventive measures to reduce or eliminate the adverse health and safety effects of these hazards. To formulate these recommendations, NIOSH evaluates all known and available medical, biological, engineering, chemical, trade, and other information relevant to the hazard. These recommendations are then published and transmitted to OSHA and the Mine Safety and Health Administration (MSHA) for use in promulgating legal standards.

OSHA

Mission

In 1970, Congress established the Occupational Safety and Health Administration (OSHA). As defined in its enabling legislation, P.L. 91-596, *the Occupational Safety and Health Act* of 1970, OSHA's mission is to "Assure so far as possible every working man and woman in the Nation safe and healthful working conditions." This mandate involves the application of a set of tools by OSHA (e.g., standards development, enforcement, compliance assistance) which enable employers to maintain safe and healthful workplaces.

Vision

OSHA's vision is to make America's workplaces the safest in the world. OSHA is striving to eliminate workplace injuries, illnesses, and deaths so that all of America's workers can return home safely every day. To realize this vision, workplace environments must be characterized by a genuine commitment to workplace safety and health shared by both employers and workers, and the necessary training, resources, and support systems must be in place to make this happen.

To achieve this vision, OSHA will be a results-oriented Agency, using data proactively to identify workplace safety and health problems and apply a comprehensive strategy that combines common sense regulation; a firm, fair, and consistent enforcement policy; and wide-ranging approaches to compliance assistance that meet the needs of workers and employers and effectively use the nation's resources.

Successful achievement of the strategic goals outlined in this Strategic Plan — a commitment to reducing injuries and illnesses in the workplace, changing workplace culture to increase the awareness of and commitment to safety and health, and delivering OSHA programs and services in an effective manner — should result in realization of this vision.

Public Exposure Guidelines

When a chemical spill occurs near a population center, responders establish a level of concern (LOC) that will protect the general public from exposure.

Public exposure guidelines are meant to protect all segments of the population, including the very young and the very old, pregnant women, and hypersensitive individuals. However, relatively few public exposure guidelines have been developed. Spill responders commonly use occupational standards and their own best judgment to select a LOC protective enough for the general population.

This article briefly discusses the main features of available public exposure guidelines.

NAAQS

The National Ambient Air Quality Standards (NAAQS) were developed by the U.S. Environmental Protection Agency (EPA) for six air pollutants: ozone, nitrogen dioxide, sulfur dioxide, particulates, lead, and carbon monoxide. These limits were designed to protect the whole population all the time. Some have a 24-hour excursion limit, which may be exceeded only once a year.

While conservative and protective, these standards are not appropriate for emergency response. The substances covered are common air pollutants generated mostly by burning fuel, not toxic chemicals that accidentally spill and create a short-term emergency. In addition, the shortest NAAQS exposure duration is 24 hours, while exposure from an accidental spill is usually no longer than 1 hour.

1/10 IDLH

This exposure limit was suggested for use as a public exposure guideline by EPA, the Federal Emergency Management Agency (FEMA), and the Department of Transportation (DOT) in the guidance document, Technical Guidance for Hazard Analysis, because it was recognized that the Immediately Dangerous to Life and Health (IDLH) limits may not be applicable for general public exposure. The choice for 1/10 of the IDLH is based on reducing the IDLH by one order of magnitude, thus providing a safety factor. Nevertheless, it is an extrapolation that may or may not be justified. Many IDLH values were made more protective in 1994. In some cases, this may create a situation in which adhering to 1/10 of the new IDLH makes the LOC lower than the commonly used occupational exposure limits such as the Threshold Limit Values (TLV) or Permissible Exposure Limits (PEL). Both of these are exposure limits deemed acceptable for most adults for an 8-hour workday, for a lifetime of employment.

ERPG

The Emergency Response Planning Guidelines (ERPGs) were developed by the ERPG committee of the American Industrial Hygiene Association. The ERPGs were developed as planning guidelines, to anticipate human adverse health effects caused by exposure to toxic chemicals. The ERPGs are three-tiered guidelines with one common denominator: a 1-hour contact duration (Figure 1). Each guideline identifies the substance, its chemical and structural properties, animal toxicology data, human

experience, existing exposure guidelines, the rationale behind the selected value, and a list of references.

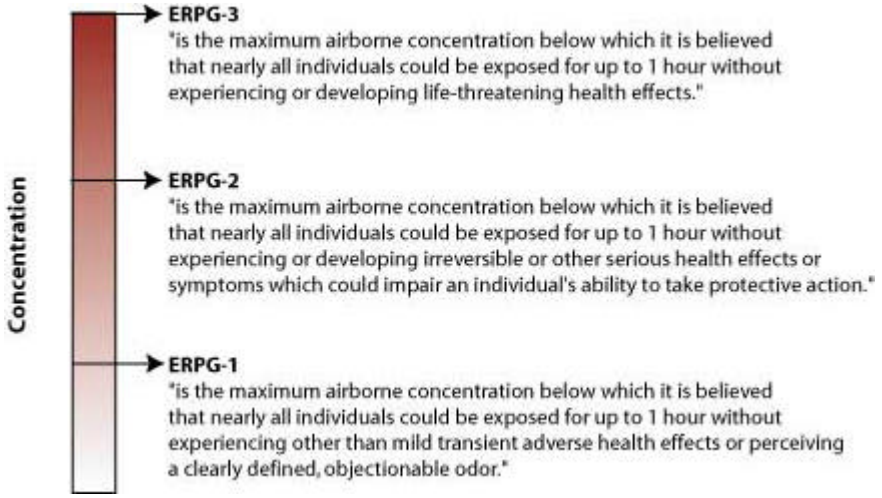

FIGURE 1. The three-tiered ERPG public exposure guidelines. The definitions and format are from the ERPG publication.

The ERPG guidelines do not protect everyone. Hypersensitive individuals would suffer adverse reactions to concentrations far below those suggested in the guidelines. In addition, ERPGs, like other exposure guidelines, are based mostly on animal studies, thus raising the question of applicability to humans. The guidelines are focused on one period of time: 1 hour. Exposure in the field may be longer or shorter. However, the ERPG committee strongly advises against trying to extrapolate ERPG values to longer periods of time.

The most important point to remember about the ERPGs is that they do not contain safety factors usually incorporated into exposure guidelines such as the TLV. Rather, they estimate how the general public would react to chemical exposure. Just below the ERPG-1, for example, most people would detect the chemical and may experience temporary mild effects. Just below the ERPG-3, on the other hand, it is estimated that the effects would be severe, although not life-threatening. The TLV, on the other hand, incorporate a safety factor into their guidelines, to prevent ill effects. The ERPG should serve as a planning tool, not a standard to protect the public. To review the current ERPG list, check the ERPG Working List. For a more detailed discussion of the level of concern (LOC) , check the references available on our Level of Concern page.

In comparison to other LOCs, the ERPG guidelines are clearly defined and are based on extensive, current data. The rationale for selecting each value is explained, and other pertinent information is also provided. But, at the present time, ERPG guidelines have been developed for fewer than 100 chemicals.

AEGL

Acute Exposure Guideline Levels (AEGLs) are under development by the National Research Council's Committee on Toxicology. The committee developed detailed guidelines for developing uniform, meaningful emergency response standards for the general public. The criteria in the guidelines take into account sensitive individuals and are meant to protect nearly all people. The committee has begun putting the guidelines into practice in developing AEGLs for specific chemicals. As of mid-2001, defined AEGL values for four chemicals have been released; proposed AEGL values for more

chemicals are under review. The committee's objective is to define AEGLs for the 300+ extremely hazardous substances listed in Title III of the Superfund Amendment and Reauthorization Act (the US EPA offers an online list of these substances). The guidelines define three-tiered AEGLs as follows:

- AEGL 1 : The airborne concentration of a substance above which it is predicted that the general population, including susceptible individuals, could experience notable discomfort, irritation, or certain asymptomatic nonsensory effects. However, the effects are not disabling and are transient and reversible upon cessation of exposure.
- AEGL 2: The airborne concentration of a substance above which it is predicted that the general population, including susceptible individuals, could experience irreversible or other serious, long-lasting adverse health effects or an impaired ability to escape.
- AEGL 3: The airborne concentration of a substance above which it is predicted that the general population, including susceptible individuals, could experience life-threatening health effects or death.

Each of the three levels of AEGL--AEGL-1, AEGL-2, and AEGL-3, are developed for each of five exposure periods:10 minutes, 30 minutes, 1 hour, 4 hours, and 8 hours.

AEGLs, when available, may be the best choice to use as LOC. However personal judgment and experience should be used both for selecting an LOC and for interpreting the data obtained from using it.

AEGL values for four chemicals are shown and discussed in Acute Exposure Guideline Levels for Selected Airborne Chemicals: Volume 1 (2001). The guidelines for developing AEGLs are described in Standing Operating Procedures for Developing Acute Exposure Guideline Levels for Hazardous Chemicals.

Table 1 presents the major exposure guidelines now in use. Table 2 compares the values found in several guidelines for four chemicals which are commonly encountered during spill response.

TABLE 1. Summary of the major exposure guidelines.

Guideline	Target Group	Organization	Definition	Exposure Duration
AEGL	Public	COT NRC	Three-tier guideline for emergency response	10 min., 30 min, 1 hr, 4 hr., and 8 hr
ERPG	Public	AIHA	Three-tier planning guideline for emergency response	1 hour
1/10 IDLH	Public	EPA/FEMA/DOT	LOC estimation based on IDLH	30 minutes
IDLH	Worker	NIOSH	Highest concentration from which escape possible without permanent damage	Used to be 30 minutes. The revised IDLH (1994) mentions no exposure

				duration.
TLV, PEL, REL	Worker	ACGIH, OSHA, NIOSH	Occupational exposure for 8-hour workday	8 hours per day, 20 to 30 years
STEL	Worker	ACGIH	Occupational short-term exposure limit	15 minutes

TABLE 2. Comparison of suggested exposure limits for four hazardous chemicals. Concentrations are in parts per million (ppm).

Chemical	ERPG-2	1/10 IDLH (numbers in parentheses are pre-1994 version)	IDLH (numbers in parentheses are pre-1994 version)	TLV-TWA	TLV-STEL
Ammonia	200	30 (50)	300 (500)	25	35
Chlorine	3	1 (3)	10 (30)	0.5	1
Hydrogen Sulfide	30	10 (30)	100 (300)	10	15
Sulfur Dioxide	3	10 (10)	100 (100)	2	5

EEGL

Emergency Exposure Guidance Levels (EEGLs) were developed by the National Research Council Committee on Toxicology for the Department of Defense (DOD) for planning operations under emergency conditions such as spills, fires, and other contamination. Exposure duration was set at 1 to 24 hours. The exposures allowed are not safe but tolerable, and temporary effects are tolerated. The EEGLs were developed for young, healthy military personnel, so the same logic that applies to the IDLH applies to EEGLs: exposure that may be a nuisance to a young and healthy adult may be a real problem for a compromised individual. EEGL levels were developed for 41 substances, some of them used almost exclusively by the military.

SPEGL

The Short-term Public Exposure Guidance Levels (SPEGL) were developed by the NRC COT as public exposure guidelines, mostly for civilian populations around military bases (which are similar to civilian populations anywhere else). Effects were considered for all groups of the public. Only five SPEGLs have been developed: hydrazine, dimethylhydrazine, monomethyl hydrazine, nitrogen dioxide, and hydrogen chloride.

While applicable to spill response situations, the short list of SPEGLs covers only a small fraction of the large number of chemicals that may spill and pose a risk to the public.

TEEL

TEELs are temporary LOCs similar to ERPGs, and defined by the U.S. Department of Energy for use when ERPGs aren't available. Like ERPGs, they do not incorporate safety factors. Rather, they are designed to represent the predicted response of members of the general public to different concentrations of a chemical during an incident. Also like ERPGs, TEELs are three-tiered:

- TEEL-1 predicts irritation and other minor effects.
- TEEL-2 predicts irritating but reversible effects.
- TEEL-3 predicts serious impact, perhaps death of compromised individuals.

TEELs are derived according to a specific, standard methodology. Unlike the ERPGs, which are derived from extensive reviews of animal and human studies, the TEEL methodology prescribes using the ERPG when available, and when no ERPG exists, using available LOCs and manipulating current data using a peer-reviewed, approved procedure. As a result, TEELS are available for many chemicals (published TEELs are listed at http://tis-hq.eh.doe.gov/web/Chem_Safety/teel.html).

The TEEL methodology can be used to derive a LOC for almost any chemical, but the power of TEELs is not as substantial as ERPGs. Nevertheless, TEELs can provide a useful reference when no other LOC is available.

Conclusions

No single exposure guideline adequately addresses the need for a LOC applicable to the general population during an emergency response situation. ERPG, which was designed for emergency response, provides useful planning guidelines, but for a limited number of substances. AEGLs provide the framework for developing public emergency response guidelines, but actual values are just beginning to be available. Until adequate emergency response guideline values for a larger number of substances are available, emergency responders will continue to use existing guidelines and their own best judgment when selecting the level of concern for emergency response.

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Revised: November 2, 2001
Office of Response and Restoration, National Ocean Service, National Oceanic and Atmospheric Administration
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ERPGs and TEELs for Chemicals of Concern: Rev. 19 - December 2002

Introduction

This document is TEELs Rev 19, December 10, 2002 (WSMS-SAE-02-0300). Temporary Emergency Exposure Limits (TEELs) are provided for over twenty-two hundred chemicals. The tables that follow also include all chemicals for which AIHA Emergency Response Planning Guideline (ERPG) values had been issued to date[1].

Table 1 is an alphabetical list of the chemicals and Chemical Abstract Services Registry Number (CASRN) and some physical constants whenever available.

Table 2 is an alphabetical list of the ERPGs and TEELs for these chemicals. Values are given in parts per million (ppm) for gases and volatile liquids and in milligrams per cubic meter (mg/m^3) for particulate materials (aerosols) and nonvolatile liquids.

Table 3 is a list of TEELs sorted by Chemical Abstract Services Registry Number (CASRN).

Table 4 is an alphabetical list of the TEELs in mass per unit volume (mg/m^3) with the ppm to mg/m^3 conversion (carried out at 25°C and 760 mmHg) performed before rounding.

TEEL values that have been changed since the last revision (Rev 18) are indicated on both Tables 2 and 4.

The DOE SCAPA-approved methodology[2] was used to obtain hierarchy-derived TEELs. Subsequently, published toxicity parameters from SAX[3] and RTECS[4] were used to derive TEEL-2 and TEEL-3 values for chemicals lacking concentration-limit hierarchy-based values, as documented in a Westinghouse Savannah River Company Technical Report (WSRC-TR-98-00080)[5] and in "Derivation of Temporary Emergency Exposure Limits (TEELs)."[6] Hierarchy-based values are presented as given by the original source, but toxicity-based values are rounded down to powers of 10 of the bases 1, 1.25, 1.5, 2, 2.5, 3, 3.5, 4, 5, 6, or 7.5 (unless the derived value is within 5% of the limit above it, e.g., 290 is rounded to 300). Where applicable, conversion from ppm to mg/m^3 is made before rounding.

These temporary emergency exposure limits are always subject to change. If new concentration limits are issued (e.g., ERPGs, PELs or TLVs), or if new or additional toxicity data are found, TEELs will be revised. Several SCAPA-approved improvements to the TEEL-derivation methodology are incorporated in this revision. TEELs that are affected by these changes are indicated. Further TEEL revisions will be issued as warranted.

ERPGs adopted through the 2002 ERPG set are on SCAPA's home page "http://www.bnl.gov/scapa". WSRC-TR-98-00080 is also available at that same web address. The most recent TEEL list revision may be found on DOE EH's Chemical Safety home page in both Adobe Acrobat format (.pdf) and as MS Excel tables
http://tis-hq.eh.doe.gov/web/chem_safety/
under “Site Map”, then “Chemical Management Tools”.

Suggestions for improvement of this document, for chemicals to be added to the list, to the format, and other comments, are welcome. All chemicals for which TEELs are derived will be added to the list. Anyone deriving TEELs using the published methodology is asked to send these to doug.craig@wxsms.com through 01/31/03, thereafter to the SCAPA web site.

Notes for Tables

The Tables in this document are derived from an Excel Workbook. This has been considerably modified from that described in detail in reference 5, in that nearly all the Excel functions used to automatically calculate TEELs have been replaced by Visual Basic macros. This change reduced the size of the file by a factor of about five, and made the process of adding new chemicals to the list much simpler.

Chemicals whose names are boldface are chemicals for which there were official ERPGs 12/10/2002. "Added" means that the chemical has been added since "TEELs Rev.18". If a TEEL value has been changed in Rev. 19 from previously recommended values, the affected values are indicated in the last column of **both** Tables 2 and 4. Changes from previous TEEL Revisions are usually the consequence of the correction or addition of data, a few SCAPA-approved methodology modifications, or of rigid adherence to the above-automated methodology[5], any deviation from which is indicated. (See Appendix 1). The physicochemical data given in these tables is extracted from various sources, not all of which are in agreement with each other. However, the differences are not usually large enough to be of concern in the conduct of safety analyses. All molecular weights (MW) are given to two decimal places. The primary sources of these data are references 3, 4, 7, and 8.

Abbreviations used are defined on pages (i) and (ii) of this document. **Hierarchy-based TEEL values** are obtained by strict application of the methodology (described in references 2, 5 and 6) except as noted below or indicated on Tables 2 and 4.

Information pertinent to the derivation of hierarchy-based TEEL values:

Permissible exposure levels (PEL)[9] used in earlier revisions of this document were vacated by Court order. Although these vacated values, adopted in 1989 (29 CFR 1910.1000-1910.1200, as of July 1, 1992) are more credible than the 1968 ACGIH TLV values to which the vacated PEL values reverted, they are no longer published in the Federal Register. Most OSHA (PEL), ACGIH (TLV)[10], and NIOSH (REL)[7] values used are taken from the "Guide to Occupational Exposure Values - 2000"[11], compiled by the American Conference of Governmental Industrial Hygienists. This publication also no longer lists vacated PEL values. WEEL[1] values are AIHA Workplace Environmental Exposure Level Guides TWA, STEL or C; "MAK[11]" represents concentration limits adopted by the Federal Republic of Germany.

For particulate materials, limits (in mg/m^3) are for total dust, even though limits are sometimes also given for the respirable fraction;

PNOS = Particulates Not Otherwise Specified. This TLV-TWA value is for total dust, and the respirable fraction is assumed to be 30% of total concentration;

The note "1910.pqrs" refers to specific paragraphs in the Federal Register (29 CFR) regulating a particular chemical;

For substances that are in particulate form, TEEL-3 has a maximum value of 500 mg/m^3. This concentration constitutes an upper bound for a stable cloud of respirable dust. The reason for this is that the coagulation rate of particles is a function of the square of the **number** concentration;

Values are restricted by the hierarchy-based TEEL for the next higher category, e.g., TEEL-1 is restricted by the TEEL-2 so that **TEEL-0 ≤ TEEL-1 ≤ TEEL-2 ≤ TEEL-3**;

In a few instances, where the IDLH value for a chemical was less than a well-documented TEEL-2 value, the IDLH was not used as the TEEL-3. The IDLH documentation is not as rigorous as that for the 60-minute EEGL or TLV-C values;

For a few chemicals whose "official" ERPG-1 value was odor-based rather than toxicity-based, the TEEL-1 value was adjusted to the PEL-STEL, TLV-STEL, or 3 x TLV-TWA value;

Some hierarchy-based TEEL-0 and TEEL-1 values are restricted by a PEL-C or TLV-C value, i.e., TEEL-0 ≤ TEEL-1 ≤ PEL-C or TLV-C;

In the absence of other concentration limits or appropriate toxicity data for a chemical, a few values are based on British, Finnish, Russian or other guidelines[12];

The usual order of use of toxicity data for TEEL-2 and/or TEEL-3 is subordinate to human toxicity data for a particular chemical;

In the absence of both hierarchy- and toxicity-based TEELs, the following default ratios have been used:

TEEL-0 = (TEEL-1)/3
if there is a TEEL-1;

TEEL-1 = (TEEL-0) x 3
if there is a hierarchy-based TEEL-0, and no PEL-STEL, TLV-STEL, PEL-C or TLV-C;

TEEL-1 = (TEEL-2)/7
if there is a toxicity-based TEEL-2.
This is based on the mean ratio of existing ERPG-2s to ERPG-1s;

TEEL-2 = (TEEL-0) x 5
if there is a hierarchy-based TEEL-0, and no PEL-STEL, TLV-STEL, PEL-C or TLV-C;

TEEL-2 = (TEEL-3)/ 5
if there is either a hierarchy-based or a toxicity-based TEEL-3.
This is based on the mean ratio of existing ERPG-3s to ERPG-2s;

TEEL-3 = (TEEL-2) x 5
if there is either a hierarchy-based TEEL-2 or a toxicity-based TEEL-2;

A few values depart from the usual guidelines, and are estimates based on existing concentration limits (at other TEEL values) and/or a comparison with similar chemicals and/or a review of available toxicity data. For example, the TEEL-3 value for 1-Bromo-3-chloro-5,5-dimethylhydantoin is estimated from the toxicity-based TEEL-3 for 3-Bromo-1-chloro-5,5-dimethylhydantoin;

In a few instances, the toxicity-based TEELs were significantly less than the hierarchy-based values and the latter (e.g., some HT-2s based on REL-Cs) were ignored. All TEELs other than hierarchy-based values are rounded.

Further Information

Because of its length, the original document is no longer available in hard copy. This included all the input data used to generate hierarchy-based TEELs (i.e., the first worksheet in the 30MB Excel workbook), and the selected toxicity data (based on the priority described in reference 5) used to derive toxicity-based TEELs), and the physicochemical data included in Table 1. It also included a table of hierarchy-based TEELs and a table of procedure-based TEEL-2 and TEEL-3 values. A limited number of copies of the text and four tables may be available from Dr. Doan Hansen at doan@bnl.gov

Contact Douglas K. Craig for further information, at (803) 502-9640, (803) 502-9773 (FAX), or doug.craig@wxsms.com (e-mail) through January 2003, after which revised contact information will be posted on the SCAPA web site, http://www.bnl.gov/scapa

References:

1. The AIHA 2002 Emergency Response Planning Guidelines and Workplace Environmental Exposure Level Guides Handbook. AIHA Press, Fairfax, Virginia (2002).

2. Craig, D.K., J.S. Davis, R. DeVore, D.J. Hansen, A.J. Petrocchi, and T.J. Powell. Alternative Guideline Limits for Chemicals without ERPGs. *Amer. Ind. Hyg. Assoc. J*. 56, 919-925 (1995).

3. Lewis, R.J., Sr.: Sax's Dangerous Properties of Industrial Materials, 10th Edition, John Wiley & Sons, New York, (1999). This publication is now available as a CD ROM (now from Wiley Environmental Science).

4. CHEM-BANK ^{TM} (August 2002) Databanks of potentially hazardous chemicals: RTECS^{R} – U.S. Department of Health and Human Services (NIOSH) Compact disc Vol. Id:RT25. SP-018-062 (SilverPlatter). This CD also includes other data bases, all of which have been scanned for pertinent data if necessary. These include: OHMTDS, TSCA and IRIS – US Environmental Protection Agency; CHRIS – U.S. Department of Transportation (Coast Guard); HSDB – U.S. Library of Medicine; NPG – U.S. National Institute for Occupational Safety and Health (NIOSH).

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7. NIOSH Pocket Guide to Chemical Hazards: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control (June 1990). A revised "Guide" was issued in June 1997, and the latest version is included in Ref. 4 above.

8. Lewis, R.J., Sr.: Hawley's Condensed Chemical Dictionary, 14th Ed. John Wiley & Sons, New York, (2001). This publication is available as a CD ROM.

9. Code of Federal Regulations, Title 29 – Labor, Part 1910.1000, Occupational Safety and Health Administration, Air Contaminants, Subpart Z: Toxic and Hazardous Substances. Tables Z-1, Z-2 and Z-3 (July 2002).

10. 2002 TLVs^{R} and BEIs^{R} Threshold Limit Values for Chemical Substances and Physical Agents: The American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, OH (2002)

11. Guide to Occupational Exposure Values – 2002. Compiled by the American Conference of Governmental Industrial Hygienists, Cincinnati, OH (2002).

12. Occupational Exposure Limits for Airborne Toxic Substances. Third Edition: Values of Selected Countries prepared from the ILO-CIS Data Base of Exposure Limits, International Labor Office, Geneva (1991).

Appendix 1: Changes to TEEL-derivation methodology approved by SCAPA membership ballot in November 2001

1. Many hierarchy concentration limits (e.g., PELs, TLVs and RELs) for compounds are listed "… as Xy", (e.g., Antimony and compounds, as Sb; Calcium chromate, as Cr; Silver, soluble compounds, as Ag). Intertox changed concentration limits by the ratio of the specific compound to the element for these chemicals, taking into account the compound formulae. This was surely the intent of OSHA, ACGIH, and NIOSH in listing concentration limits this way; it seems logical to incorporate this change in deriving concentration-limit hierarchy-based TEELs.
Therefore, it was recommended to "**Adjust PEL, TLV, REL, MAK and OEL TWA, STEL and C concentration limits by the compound to element ratio. This simplifies the application of TEELs, and ensures that inappropriate adjustments will not be made. Toxicity-based TEELs (t-Ts) are already compound-specific, so need no adjustment**".

2. TEEL-2 values are based on PEL, TLV, or REL ceiling (C) values, or on 5 x TLV-TWA, in order of availability. The ERPG-2 definition given below is frequently interpreted as the threshold concentration for serious or irreversible toxic effects. Concentration-limit hierarchy-based TEELs (HTs) are frequently much lower than the applicable toxicity data that are available for a chemical would indicate for this threshold. A partial resolution to this problem would be addition of a step to test for large differences between concentration-limit and toxicity-based TEEL-2 and TEEL-3 values.
Therefore, it was recommended to "**Test HTs based on PEL-C (15-minute regulatory limit for workers), TLV-C (well-documented 15-minute per day limit for workers), REL-Cs or 5 x TLV-TWAs against toxicity-based TEEL-2s (t-Ts by all routes of intake).**
If 10 < t-T to HT ratio < 100, then set TEEL-2 = HT x 10
If t-T to HT ratio > 100, then set TEEL-2 = HT x 100
The usual constraint that TEEL-2 ≤ TEEL-3 applies.
TEEL-3s are currently toxicity-based if there is no IDLH".

3. Existing Route Adjustment Factors (RAFs) are arbitrary, and were based on scientific judgement. It was, for example, assumed that intravenously (iv) injected compounds would be quantitatively absorbed, so iv administration was assigned an RAF of 1, compared with 0.25 for orally (os) ingested or administered material. This means that it was assumed that four times as much compound needed to be ingested to elicit the same toxic response as the iv- administered

compound. This issue was addressed by applying the existing TEEL-derivation methodology to all available acute toxicity data (i.e., for different routes of administration) for 90 chemicals for which ERPGs had been published at the time. To avoid interspecies differences, only rat data were used for this analysis. Rat oral LD_{50} data were used as the basis for comparison because of the relative abundance of such data. There were sufficient data for three common routes of administration in toxicity studies, namely intraperitoneal (ip), intravenous (iv), and dermal uptake (sk). These analyses showed that current RAFs (RAF-C) for three routes should be revised (RAF-R). Toxic compounds administered by these routes were not as effective relative to oral intake as originally assumed. Therefore, it was recommended to "**Adopt the revised RAFs, which are more soundly based than the existing RAFs**".

TEELs are dynamic, and change when Input data changes (e.g., ERPGs, PEL-TWAs, new acute toxicity). Inconsistencies or errors (often pointed out by users) are corrected as necessary. All changes from previous TEEL list revisions are indicated in the TEEL tables. Adoption of these changes bolsters scientific creditability of TEELs.

Definition of TEELs:

TEELs are intended for use until Emergency Response Planning Guidelines (ERPGs) are adopted for chemicals. Therefore, with the exception of the recommended averaging time, TEELs 1, 2, and 3 have the same definitions as the equivalent ERPG. These are:

ERPG-1 The maximum concentration in air below which it is believed nearly all individuals could be exposed for up to one hour without experiencing other than mild transient adverse health effects or perceiving a clearly defined objectionable odor.

ERPG-2 The maximum concentration in air below which it is believed nearly all individuals could be exposed for up to one hour without experiencing or developing irreversible or other serious health effects or symptoms that could impair their abilities to take protective action.

ERPG-3 The maximum concentration in air below which it is believed nearly all individuals could be exposed for up to one hour without experiencing or developing life-threatening health effects.

Temporary Emergency Exposure Limits (TEELs)

TEEL-0 The threshold concentration below which most people will experience no adverse health effects.

TEEL-1 Same as ERPG-1

TEEL-2 Same as ERPG-2

TEEL-3 Same as ERPG-3

It is recommended that for application of TEELs, concentration at the receptor point of interest be calculated as the peak fifteen-minute time-weighted average concentration. It should be emphasized that TEELs are default values, following the published methodology explicitly. The only judgement involved is that exercised in the extraction of data used to calculate the recommended TEELs.

Key to Abbreviations

abs – absolute
ACGIH - American Conference of Governmental Industrial Hygienists
af - atomic formula
AIHA - American Industrial Hygiene Association
alc - alcohol
alk - aflWine
amorph - amorphous
anhyd -anhydrous
approx - approximately
aq -aqueous
at, atm - atmosphere
autoign - autoignition
aw - atomic weight
BEI - ACGIH Biological Exposure Indexes
BP, bp - boiling point
b range - boiling range
CASRN - Chemical Abstracts Service Registry Number
cc - cubic centimeter
CC - closed cup
CL - ceiling concentration
COC - Cleveland open cup
conc - concentration, concentrated
compd(s) - compounds)
contg - containing
cryst, crys - crystal(s), crystalline
d - density
D - day(s)
decomp, dec - decomposition
deliq - deliquescent
dil - dilute
DOT - U.S. Department of Transportation
EPA - U.S. Environmental Protection Agency
ERPG - Emergency Response Planning Guidelines of the AIHA
eth - ether
expls - explodes
(F) - Fahrenheit
FCC - Food Chemical Codex
FDA - U.S. Food and Drug Administration
fibrs - fibers
flam - flammable
flash p - flash point
FP, fp - freezing point
g, gm. - gram
glac - glacial
gran - granular, granules
hygr - hygroscopic
H, hr - hour(s)
HR - Hazard Rating (SAX)
htd - heated
htg - heating
IARC - International Agency for Research on Cancer
immisc - immiscible
incomp - incompatible
insol - insoluble
IU - International Unit
kg - kilogram (one thousand grams)
L,I - liter
LEL, lel - lower explosive limit
liq -7 liquid
M - minute(s)
m^3 _ cubic meter
mf - molecular formula
mg - milligram
misc - miscible
µ, u - micron
mL, ml - milliliter
mm. - millimeter
mmHg - pressure in millimeters of mercury
mod - moderately
MP, mp - melting point
mppcf - million particles per cubic foot
MW, mw - molecular weight
ng - nanogram
NIOSH - National Institute for Occupational Safety and Health
nonflam - nonflammable
NTP - National Toxicology Program
OBS - obsolete
OC - open cup
org - organic
OSHA-Occupational Safety and Health Aministration
Pa - Pascals

Key to Abbreviations (cont.)

PEL - permissible exposure level
petr - petroleum
pg - picogram (one trillionth of a gram)
Pk - peak concentration
pmole - picomole
powd - powder
ppb - parts per billion (v/v)
pph - parts per hundred (v/v)(percent)
ppm - parts per million (v/v)
ppt - parts per trillion (v/v)
prep - preparation
press - under pressure
PROP - properties
Pwdr - powder
rhomb - rhombic
SAX Number - each chemical's identifying code as used in SAX3
SCAPA - Subcommittee on Consequence Assessment and Protective Actions
S, sec - second(s)
SAR – Structure Activity Relationships
Si, sit, sitly - slightly
SG - specific gravity
sol - soluble
soln - solution
solv(s) - solvent(s)
spont - spontaneously
STEL - short term exposure limit
subl - sublimes
TCC - Tag closed cup
tech - technical
TEEL - Temporary Emergency Exposure Limits
temp - temperature
µ, u - micron
TLV - Threshold Limit Value
TOC - Tag open cup
TWA - time weighted average
U, unk - unknown, unreported
UEL, uel - upper explosive limit
µg, ug - microgram
ULC, ulc -Underwriters Laboratory Classification
USDA - U.S. Department of Agriculture
vac - vacuum
vap -vapor
vap d - vapor density
Vapor Press, vap press - vapor pressure
Vol - volume
visc - viscosity

vsol - very soluble
W - week(s)
Y - year(s)
% - percent(age)
> - greater than
< - less than
< = - equal to or less than
> = equal to or greater than
° - degrees
°C - temperature in Celsius (Centigrade)
(F), °F - temperature in Fahrenheit

Table 1: Revision 19 of Chemicals for which TEELs have been derived. with some physicochemical data

No.	Chemical Compound	CAS Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity concentration dependent	ppm to mg/m^3 conversion factor	Molecular formula	State at 25oC	MP (FP) oC	BP °C	Vapor Pressure mm Hg	Vapor Pressure T (°C)	SG	HR	Comments
1	Acenaphthene; (1,3-Acenaphthalene)	83-32-9	AAF275	154,22	mg/m3	Y	6,30	C10H6(CH2)2	S	95	277,5	10	131,2	1,024	1	T-3 uses 'ip' data T-3 changed
2	Acenaphthylene	208-96-8	AAF500	152,20	mg/m3	N	6,22	C12H8	S	92-93	265-275			0,8998	2	T-3 uses 'ip' data
3	**Acetaldehyde**	75-07-0	AAG250	44,06	ppm	Y	1,80	C2H4O	L	-123,5	20,8	740	20	0,804	3	**ERPG-1, -2, -3**
4	Acetamide	60-35-5	AAI000	59,08	mg/m3	N	2,41	C2H5NO	S	81	221,2	1	65	1,159	3	
5	Acetic acid	64-19-7	AAT250	60,06	ppm	Y	2,45	CH3COOH	L	16,6	118	11,4	20	1,049	3	
6	Acetic acid, 2-propenyl ester	591-87-7	AFU750	100,13	ppm	Y	4,09	C5H8O2								Added
7	Acetic Anhydride	108-24-7	AAX500	102,10	ppm	Y	4,17	C4H6O3	L	-73,1	139,55	10	36	1.082 @ 20/4	3	
8	Acetone	67-64-1	ABC750	58,09	ppm	Y	2,37	CH3.CO.CH3	L	-94,3	56,2	180	20	1.068-1.075	2	
9	Acetone thiosemicarbazide	1752-30-3	TFQ250	131,22	mg/m3	N	5,36	C4H9N3S	S						3	Added
10	Acetonitrile	75-05-8	ABE500	41,06	ppm	Y	1,68	CH3CN	L	-41	82	73	20	0,7868	3	
11	Acetophenone	98-86-2	ABH000	120,16	mg/m3	N	4,91	C8H8O	L	19,7	202,3	1	15	1,026	3	
12	Acetoxytriphenylstannane	900-95-8	ABX250	409,07	mg/m3	N	16,72	C20H18O2Sn	S	122		1.9 uPa	20	1.55 @ 20 C	3	Added
13	Acetyl bromide	506-96-7	ACD750	122,96	ppm	Y	5,03	Br.C2H3O	S	-96,5	76,7	122	25	1.52 @ 9.5	3	T-3 uses 'ip' data All Ts changed
14	Acetyl chloride	75-36-5	ACF750	78,50	ppm	Y	3,21	C2H3ClO	L	-112	51-52			1,1051	3	
15	Acetylaminofluorenone, 2-	3096-50-2	ABY250	237,27	mg/m3	N	9,70	C15H11NO2	S fibers						2	
16	Acetylaminofluorine, 2-	53-96-3	FDR000	223,29	mg/m3	N	9,13	C15H13NO	S						3	T-2 uses 'ip' data All Ts changed
17	Acetylene	74-86-2	ACI750	26,04	ppm	Y	1,06	C2H2	G	-81,8	-84	30400	16,8	0.6208 @ -82 C	3	Added
18	**Acrolein**	107-02-8	ADR000	56,07	ppm	Y	2,29	CH2=CHCHO	L	-87	52,7	210	20	0,841	3	**ERPG-1, -2, -3**
19	Acrylamide	79-06-1	ADS250	71,09	mg/m3	Y	2,91	C3H5.NO	S	84,5	125 @ 25 mm	1,6	84,5	1,122	3	
20	**Acrylic acid**	79-10-7	ADS750	72,07	ppm	Y	2,95	H2C=CHCOOH	L	12,1	140,9	3,1	20	1,062	3	**ERPG-1, -2, -3**
21	Acrylic acid polymers; (Acrylic polymer or resin)	9003-01-4	ADW200	168,06	mg/m3	N	6,87	(C3H4O2)4	S						3	
22	**Acrylonitrile**	107-13-1	ADX500	53,07	ppm	Y	2,17	CH2=CHCN	L	-83	77,3	83	20	0,806	3	**ERPG-1, -2, -3**
23	Acrylyl chloride; (Acryloyl chloride)	814-68-6	ADZ000	90,51	ppm	N	3,70	C3H3ClO	L		75	300	25		3	T-2 changed
24	Activated charcoal	64365-11-3	CDI000	12,01	mg/m3	N	0,49	C	Pwdr						1	
25	Adipic acid	124-04-9	AEN250	146,16	mg/m3	Y	5,97	C6H10O4	S	152	337,5	1	159,5	1.360 @ 25C	3	T-3 uses 'ip' data T-3 changed
26	Adiponitrile	111-69-3	AER250	108,16	ppm	N	4,42	C6H8N2	L	2,3	295	0,00068	25	0.965 @ 20 C	3	
27	Agar	9002-18-0	AEX250		mg/m3	N		[Unknown]	S						1	Added
28	Alcohols, C6-C12 (N.O.S.)	68603-15-6	AFJ250		mg/m3	N		CnH2n+1OH	L						3	
29	Aliquat 336; (Adogen 464; Quaternary ammonium compounds, tri(C8-10)-alkylmethyl-, chlorides)	63393-96-4	QAT565		mg/m3	N		[Unknown]							2	T-0, T-1, T-2 changed.

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30	Alkenyl dimethylethyl ammonium bromide; (Aliphatic hydrocarbon)	z-0001	AFN750		mg/m3	N		[Unknown]							3	
31	Alkyd resins and rosin	66070-62-0	N.I.S.		mg/m3	N		[Unknown]								
32	Alkyl benzenes (C8-C9)	68515-28-3	N.I.S.		mg/m3	N		[Unspecified]							2	
33	Alkylamines (includes nitrogen mustard, triethylmelamine, etc.)	63231-48-1	N.I.S.		mg/m3	N		[Unspecified]							3	
34	Alkylbenzene (C10-C16)	68648-87-3	N.I.S.		mg/m3	N		[Unspecified]	S						1	T-3 uses 'sk' data
35	Allene; (1,2-Propadiene)	463-49-0	AFR000	40,06	ppm	N	1,64	H2C:C:CH2	G	-146	-32			1,787	3	Added. Unknown toxicity, probable anesthetic
36	Allyl alcohol	107-18-6	AFV500	58,09	ppm	Y	2,37	CH2=CH20H	L	-129	96,9	17	20	0,854	3	T-2 changed
37	Allyl Bromide; (3-Bropmopropene)	106-95-6	AFY000	120,99	ppm	N	4,95	C3H5Br	L	-119	71,3			1.3980 @ 20 C	3	.
38	**Allyl chloride**	107-05-1	AGB250	76,53	ppm	Y	3,13	CH2=CH.CH2.Cl	L	-134	45	295	20	0,938	3	**ERPG-1, -2, -3**
39	Allylamine	107-11-9	AFW000	57,11	ppm	Y	2,33	C3H7N	L		65.8-58			0,761	3	
40	Alpha-Pinene	80-56-8	PIH250	136,26	mg/m3	Y	5,57	C10H16	L	-55	155	10	37,3	0,8592	3	
41	Aluminon	569-58-4	AGW750	473,48	mg/m3	N	19,35	C22H23N3O9	S	220,5	dec				1	
42	Aluminum (powder)	7429-90-5	AGX000	26,98	mg/m3	N	1,10	Al	S	660	2494	1	1284	2,702	3	
43	Aluminum chloride	7446-70-0	AGY750	133,33	mg/m3	Y	5,45	AlCl3	S	192 @ 2.5 at	181	1	100	2,44	3	T-2 uses 'ip' data T-2 changed.
44	Aluminum fluoride (as Al)	7784-18-1	AHB000	83,98	mg/m3	Y	3,43	AlF3	S	1291	1260 subl	1	1238	2,88	3	
45	Aluminum hydroxide	21645-51-2	AHC000	78,01	mg/m3	N	3,19	AlH3O3	S	300 dec				2,42	3	T-3 uses 'ip' data T-1, T-2, T-3 changed.
46	Aluminum oxide	1344-28-1	AHE250	101,96	mg/m3	N	4,17	Al2O3	S	2030	2980	~0	20	3.5-4.0	2	
47	Aluminum phosphate; (Phosphoric acid, aluminum salt (1:1),solution)	7784-30-7	PHB500	121,95	mg/m3	Y	4,98	O4 P>Al	L						2	T-1, T-2 changed.
48	Aluminum phosphide	20859-73-8	AHE750	57,95	mg/m3	Y	2,37	Al.P	S	>1000				2.85 @ 15 C	3	Added
49	Aluminum potassium sulfate	10043-67-1	AHF100	258,20	mg/m3	N	10,55	O8S2.Al.K	S	92				1,75	1	
50	Aluminum sulfate (Soluble salt, as Al)	10043-01-3	AHG750	342,14	mg/m3	N	13,98	Al2(SO4)3	S	770 dec				2,71	2	
51	Aluminum(III) nitrate (1:3)	13473-90-0	AHD750	213,01	mg/m3	Y	8,71	Al.N3O9	S	73	150 dec				3	T-1, T-2 changed.
52	Aluminum(III) nitrate nonahydrate (1:3:9) (As sol. Al)	7784-27-2	AHD900	375,19	mg/m3	Y	15,33	N3O9.Al. 9H2O	S	73,5	150 dec				2	T-2 changed.
53	Aluminum(III)silicate (2:1); (Oil-dri)	1302-76-7	AHF500	162,05	mg/m3	N	6,62	2Al.SiO5	S						2	
54	Amino-1,3-naphthalenedisulfonic acid, 7-	86-65-7	NBE850	303,32	mg/m3	N	12,40	C10H9NO6S2	S						2	T-2 uses 'ip' data T-0, T-1, T-2 changed.
55	Amino-2,6-dinitrotoluene, 4-; (4-Amino-3,5-dinitrotoluene)	6393-42-6	DVI100	197,17	mg/m3	N	8,06	C7H7N3O4	S	171-172					3	T-3 uses 'iv' data All Ts changed.
56	Amino-2-methyl-2-propanol, 1-	2854-16-2	ALB250	89,16	mg/m3	N	3,64	C4H11NO	L		151			0,929	2	
57	Amino-4,6-dinitrotoluene, 2-	35572-78-2	AJR750	197,17	mg/m3	N	8,06	C7H7N3O4	S						2	
58	Aminoanthraquinone, 2-	117-79-3	AIB000	223,24	mg/m3	N	9,12	C14H9NO2	L	302-306	subl				3	T-3 uses 'ip' data
59	Aminobutyl)diethoxymethylsilane, (4-	3037-72-7	AJA750	205,42	mg/m3	Y	8,40	C9H23NO2Si	L		220	0,06	25		3	T-3 uses 'sk' data Added

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60	Aminodiphenyl, p-	92-67-1	AJS100	169,24	mg/m3	N	6,92	C12H11N	S	53	302			1,16	3	
61	Aminoethylpiperazine, n-	140-31-8	AKB000	129,24	mg/m3	Y	5,28	C6H15N3	L	-19	220,4			0,9852	3	
62	Aminoheptane, 3-; (3-Heptylamine)	28292-42-4	HBM500	115,25	ppm	Y	4,71	C7H17N								T-3 uses 'ip' data Added
63	Aminopropiophenone, 4-	70-69-9	AMC000	149,21	mg/m3	N	6,10	C9H11NO	S	140					3	Added
64	Aminopterin; (Aminopteridine)	54-62-6	AMG750	440,47	mg/m3	N	18,00	C19H20N8O5	L/S						3	.
65	Aminopyrazine	5049-61-6	N.I.S. etc.	95,00	ppm	N	3,88	[Unknown]								Added. No toxicity data found. **SAR**
66	Aminopyridine, 4-; (4-Pyridinamine)	504-24-5	AMI500	94,13	mg/m3	N	3,85	C5H6N2	S	158	273				3	.
67	Amiton oxalate	3734-97-2	AMX825	359,42	mg/m3	N	14,69	C10H24.NO3.PS.C2H2O4	S	98-99	110 @ 0.2 mm	0,01	80		3	HSDB p-chem data same as amiton. Added
68	Amiton; (O,O-Diethyl-S-(2-diethylaminoethyl) thiophosphate)	78-53-5	DJA400	269,38	mg/m3	N	11,01	C10H24.NO3.PS	L		110 @ 0.2 mm	0,01	80		3	Added
69	Amitrole	61-82-5	AMY050	84,10	mg/m3	N	3,44	C2H4N4	S	156-159					3	T-2 changed.
70	**Ammonia**	7664-41-7	AMY500	17,04	ppm	Y	0,70	NH3	G	-77,7	-33,3	>760			3	**ERPG-1, -2, -3**
71	Ammonium acetate	631-61-8	ANA000	77,10	mg/m3	N	3,15	C2H4O2-H3N	S	114				1,07	3	T-3 uses 'ip' data All Ts changed.
72	Ammonium aluminum fluoride; (Triammonium hexafluoroaluminate)	7784-19-2	THQ500	195,13	mg/m3	Y	7,98	AlF 6.3H4N	S						3	T-3 uses 'iv' data. T-2, T-3 changed
73	Ammonium benzoate	1863-63-4	ANB100	139,17	mg/m3	N	5,69	C7H5O2.H4N	S	198 decom	160 sublms			1,26	3	P-Chem data ex HSDB (MP > BP)
74	Ammonium bicarbonate	1066-33-7	ANB250	79,10	mg/m3	N	3,23	HCO3.H4N	S	107,5				1,586	3	T-3 uses 'iv' data All Ts changed.
75	Ammonium bisulfate; (Ammonium hydrogen sulfate)	7803-63-6	ANJ500	115,11	mg/m3	Y	4,70	NH4HSO4	S	146,9				1,78	2	
76	Ammonium bisulfite; (Ammonium sulfite)	10192-30-0	ANB600	99,12	mg/m3	Y	4,05	H3N.H2O3.S	S		150 subl			2,03	2	
77	Ammonium carbamate; (Carbamic Acid, Ammonium Salt)	1111-78-0	AND750	78,09	mg/m3	N	3,19	CH3NO2.H3N	S	60 sublms	60				3	T-3 uses 'iv' data All Ts changed.
78	Ammonium carbonate	506-87-6	ANB250	96,11	mg/m3	N	3,93	HCO3.H4N	S	107,5	dec			1,586	3	T-3 uses 'iv' data All Ts changed.
79	Ammonium chloride	12125-02-9	ANE500	53,50	mg/m3	Y	2,19	NH4.Cl	S	337,8	520	1	160.4 subl	1,52	3	
80	Ammonium chromate	7788-98-9	ANF500 NCQ550	152,10	mg/m3	Y	6,22	CrO4.(NH4)2	S	180 decom				1.91 @ 12 C	3	. SAX has two entries under CASRN = 7788-98-9, name in NCQ550 = "Neutral ...". T-1 changed.
81	Ammonium citrate	7632-50-0	ANF800	311,42	mg/m3	Y	12,73	C6H8O7. (NH3)x	S					1,48	2	
82	Ammonium citrate, dibasic	3012-65-5	N.I.S.	226,19	mg/m3	Y	9,24	C6H8O7. (NH3)2	S		decom			1.48 @ 25 C		.
83	Ammonium dichromate (as Cr(VI))	7789-09-5	ANB500	252,10	mg/m3	N	10,30	Cr2H8N2O7	S	dec				2,936	3	All Ts changed.
84	Ammonium dihydrogen fluoride; (Ammonium bifluoride)	1341-49-7	ANJ000	57,06	mg/m3	Y	2,33	NH4.HF2	S	126	239			1,51	3	
85	Ammonium dihydrogen phosphate; (Monoammonium phosphate)	7722-76-1	N.I.S.	115,03	mg/m3	Y	4,70	H3.N.H3-O4-P	S	190				1,803	1	
86	Ammonium ethylenedinitrotetraacetoferrate(III)	21265-50-9	N.I.S.	362,10	mg/m3	N	14,80	C10H12FeN2 O8.H4N	S						2	T-3 uses 'ip' data All Ts changed.
87	Ammonium ferrous sulfate	7783-85-9	IGL200	356,09	mg/m3	N	14,55	H4-N2.Fe2O4-S.6H2O	S						2	
88	Ammonium fluoborate	13826-83-0	ANH000	104,86	mg/m3	Y	4,29	F4B.NH4	S	230	238 subl			1.871 @ 15 C	3	
89	Ammonium fluoride	12125-01-8	ANH250	37,05	mg/m3	Y	1,51	H4N.F	S	subl				1,00925	3	T-3 uses 'ip' data T-3 changed.

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90	Ammonium formate	540-69-2	ANH500	63,07	mg/m3	N	2,58	CH2O2.H3N	S	116	180 dec			1,28	2	
91	Ammonium hexachlorohydrate (III)	z-0002	N.I.S.		mg/m3	N		[Unknown]	S							
92	Ammonium hexafluorosilicate; (Ammonium silicofluoride)	16919-19-0	COE000	178,19	mg/m3	N	7,28	F6Si.2H4N	S	subl				2,01	3	
93	Ammonium hydroxide (as NH3)	1336-21-6	ANK250	35,06	ppm	Y	1,43	NH4.OH	L	-77				0,9	3	
94	Ammonium iodide	12027-06-4	ANL000	145,00	mg/m3	Y	5,93	NH4.I	S	551 subl	220 vac	1	210,9	2,51425	2	
95	Ammonium lactate	52003-58-4	N.I.S.		mg/m3	N		[Unknown]								
96	Ammonium lignin sulfonate	z-0003	N.I.S.		mg/m3	N		[Unknown]								
97	Ammonium molybdate	13106-76-8	ANM750	196,04	mg/m3	N	8,01	MoO4.2H4N	S	dec				2,27	3	
98	Ammonium molybdophosphate	z-0004	N.I.S.	1876,35	mg/m3	N	76,69	(NH4)3.12(MoO3).PO4	S							
99	Ammonium nickel sulfate	15699-18-0	NCY000	286,93	mg/m3	N	11,73	O8S2.Ni.2H4N	S					1,923	3	T-3 changed.
100	Ammonium nitrate	6484-52-2	ANN000	80,06	mg/m3	Y	3,27	HNO3.H3N	S	169,6	>210 subl			1,725	3	
101	Ammonium oxalate monohydrate	5972-73-6	N.I.S.	125,08	mg/m3	Y	5,11	C2H7NO5, or NH3.H2.C2O4.H2O	S							This CASRN in H&N, with MW = 125.08
102	Ammonium oxalate; (Ammonium oxalate hydrate)	6009-70-7	N.I.S.	142,11	mg/m3	Y	5,81	C2H10N2O5, or (NH4)2.C2O4.H2O	S	70 decom				1.50 @ 18.5 C		Listed in CHRIS & OHMTADS
103	Ammonium oxalate; (Ethanediodic acid, ammonium salt)	1113-38-8	ANO750	124,12	mg/m3	Y	5,07	C2H2O4. 2H3N	S	dec				1,5	3	
104	Ammonium pentaborate	12007-89-5	N.I.S.	272,14	mg/m3	N	11,12	N.H4.B5.O8	S					1.58 @ 15C		
105	Ammonium perchlorate	7790-98-9	PCD500	117,50	mg/m3	Y	4,80	ClO4.H4N	S vs	dec				1,95	3	
106	Ammonium permanganate	13446-10-1	PCJ750	136,99	mg/m3	Y	5,60	MnO4.H4N	S	expl				2,208	3	
107	Ammonium persulfate	7727-54-0	ANR000	228,22	mg/m3	Y	9,33	O8S2.2H4N	S	120 dec				1,982	3	T-3 uses 'ip' data T-3 changed.
108	Ammonium phosphate dibasic	7783-28-0	ANR500	132,08	mg/m3	N	5,40	H6N2.H3O4P	S	185 dec				1,619	2	
109	Ammonium picrate	131-74-8	ANS500	246,16	mg/m3	N	10,06	C6H3N3O7.H3N	S	dec	423 expl			1,719	3	
110	Ammonium sulfamate	7773-06-0	ANU650	114,14	mg/m3	N	4,67	H2NO3S.H4N	S	131	160 dec				2	
111	Ammonium sulfate	7783-20-2	ANU750	132,16	mg/m3	N	5,40	SO4.(NH4)2	S	>280				1,77	2	
112	Ammonium sulfide	12135-76-1	N.I.S.	68,14	ppm	Y	2,78	(NH4)2.S	L	decom	104					
113	Ammonium sulfite	10196-04-0	N.I.S.	116,14	mg/m3	Y	4,75	(NH4)2.2SO3	S					> 1.1 @ 20 C		
114	Ammonium tartrate	14307-43-8	N.I.S.	184,00	mg/m3	Y	7,52	(NH4)2. C4H4O6	S		decom			1.6 @ 25 C		
115	Ammonium tartrate; (Diammonium tartrate)	3164-29-2	DCH000	184,18	mg/m3	N	7,53	C4H6O6. 2NH3	S					1,601	3	
116	Ammonium thiocyanate	1762-95-4	ANW750	76,13	mg/m3	N	3,11	CNS.H4N	S del	149,6	170 dec			1,305	3	
117	Ammonium thiosulfate; (Ammonium hyposulfite)	7783-18-8	ANK600	148,22	mg/m3	N	6,06	(NH4)2.S2O3	S	150 dec				1,679	2	
118	Ammonium vanadate; (Ammonium vanadium oxide; Ammonium metavanadate)	7803-55-6	ANY250	116,99	mg/m3	N	4,78	NH4.VO3	S	200 dec				2,326	3	
119	Ammonium, hexadecyltrimethyl bromide; (Hexadecyltrimethylammonium bromide)	57-09-0	HCQ500	364,53	mg/m3	Y	14,90	C19H42N.Br	S	237-243					3	T-2 uses 'ip' data T-0, T-1, T-2 changed.

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120	Amosite	12172-73-5	ARM262	1908,60	mg/m3	N	78,01	11FeO-3MgO-16SiO2-2H2O	S fibre						3	T-2 changed.
121	Amphetamine; (Benzedrine)	300-62-9	BBK000	135,23	mg/m3	N	5,53	C9H13N	L		203			0,931	3	Added
122	Amyl acetate	628-63-7	AOD725	130,21	ppm	Y	5,32	C7H14O2	L	-78,5	148,4			0,879	3	
123	Amyl alcohol mixed isomers; (1-Pentanol)	71-41-0	AOE000	88,17	ppm	Y	3,60	C5H12O	L	-79	137,8	10	44,9	0,8168	3	
124	Amylamine, n-; (1-Pentylamine)	110-58-7	PBV505	87,19	mg/m3	N	3,56	C5H13N	L						3	T-3 uses 'ip' data All Ts changed.
125	Anhydrone; (Magnesium perchlorate)	10034-81-8	PCE000	223,21	mg/m3	Y	9,12	Cl2O8.Mg	S	251 dec				2,6	2	
126	Aniline	**62-53-3**	AOQ000	93,14	ppm	N	3,81	C6H5NH2	L	-6,1	183,9	0,6	20	1,02	3	
127	Anisidine, o-	90-04-0	AOV900	123,17	mg/m3	N	5,03	C7H9NO	L	5	225			1,097	3	
128	Anisidine, p-	104-94-9	AOW000	123,16	mg/m3	N	5,03	C7H9NO	S	57	246			1,089	1	
129	Anthracene	120-12-7	APG500	178,24	mg/m3	Y	7,28	C6H4:(CH)2: C6H4	S	217	339,9	1	145	1,24	2	T-3 uses 'ip' data T-3 changed.
130	Anthraquinone dye; (sans dye, see Hawley)	84-65-1	APK250	208,22	mg/m3	N	8,51	C14H8O2	S	286	376,9	1	190	1,438	2	
131	Antimony	7440-36-0	AQB750	121,75	mg/m3	N	4,98	Sb	S	630	1635	1	886	6,684	3	T-2 changed.
132	Antimony oxide	1309-64-4	AQF000	291,50	mg/m3	N	11,91	Sb2-O3	V	650	1550 subl			5,2	3	T-3 changed
133	Antimony pentachloride	7647-18-9	AQD000	299,01	mg/m3	N	12,22	Cl5.Sb	S	4	140	1	22,7	2,336	3	T-3 changed.
134	Antimony pentafluoride	7783-70-2	AQF250	216,75	mg/m3	Y	8,86	Sb.F5	L	7	149,5			2.99 @ 23C	3	All Ts changed.
135	Antimony pentasulfide	1315-04-4	AQF500	403,80	mg/m3	N	16,50	Sb2.S5	S	75 decom				4,12	3	T-3 changed.
136	Antimony potassium tartrate trihydrate; (sans trihydrate)	28300-74-5	AQG250	635,88	mg/m3	N	25,99	C8H4O12Sb2.3H2O.2K	S	100 lose water				2,607	3	T-3 changed.
137	Antimony trichloride	10025-91-9	AQC500	228,10	mg/m3	Y	9,32	SbCl3	S del	73,4	220	1	49,2	3,06	3	T-3 changed.
138	Antimony trifluoride	7783-56-4	AQE000	178,75	mg/m3	Y	7,31	SbF3	S	292	376	200	292	4.379 @ 20.9 C	3	T-1, T-2, T-3 changed.
139	Antimycin A	1397-94-0	AQM250	512,34	mg/m3	N	20,94	C28H4N2O9	S			0,00001	25		3	
140	Antioxidant G-16 (most toxic antiox)	61373-87-3	N.I.S.		mg/m3	N		[Unknown]	L						2	T-3 uses 'ip' data T-3 changed.
141	Aqua regia (75% hydrochloric + 25% nitric acid)	8007-56-5	HHM000	99,47	mg/m3	Y	4,07	3HCl.HNO3	L						3	
142	Arginine, L-	74-79-3	AQV980	174,20	mg/m3	N	7,12	C6H14N4O2	S	207						
143	Argon	7440-37-1	AQW250	39,94	ppm	N	1,63	Ar	G	-189,2	-185,7			1784	1	
144	Argon, cryogenic	7440-37-1	AQW250	39,94	ppm	N	1,63	Ar	G	-189,2	-185,7			1.40 @ -186 C	1	
145	Aromatic hydrocarbon solvents; (High flash naphtha distillates; Solvent naphtha [petroleum], light aromatic)	64742-95-6	SKS350	100,00	ppm	N	4,09	[Unspecified]	L						D	
146	Arsenic (& inorganic compounds)	1327-53-3	ARI750	197,84	mg/m3	N	8,09	As +	S	613 subl		1	372	4,15	3	T-2 changed
147	Arsenic (organic compounds as As)	7440-38-2	ARA750	74,92	mg/m3	N	3,06	As +	S					4,7	3	
148	Arsenic acid	1327-52-2	N.I.S.	141,95	mg/m3	N	5,80	As.H3O4	S	35,5	300 dec			2.2 @ 20 C		Added
149	Arsenic acid; (o-arsenic acid)	7778-39-4	ARB250	141,95	mg/m3	Y	5,80	AsH3O4	S	35,5	160 dec			2-2.5	3	T-2 uses 'ip' data T-1, T-2, T-3 changed.

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150	Arsenic pentoxide	1303-28-2	ARH500	229,84	mg/m3	Y	9,39	As2O5	S	800 dec				4,32	3	T-1, T-2, T-3 changed.
151	Arsenious acid	13464-58-9	ARF750	125,99	mg/m3	Y	5,15	As-H3-O3	V							Added. As inorganic compounds. Exists only in solution (HC&P)
152	Arsenous trichloride	7784-34-1	ARF500	181,27	ppm	N	7,41	AsCl3	L	-16	130	10	23,5	2,15	3	T-0, T-1, T-3 changed
153	**Arsine**	**7784-42-1**	ARK250	77,95	ppm	**Y**	3,19	AsH3	G	-117,2	-62,8	>760		2,695	3	**ERPG-2, -3** T-1 changed.
154	Asbestos	1332-21-4	ARM250		mg/m3	Y		[Unspecified]	S fibers						3	All Ts changed.
155	Asbestos (Chrysotile)	12001-29-5	ARM268		mg/m3	Y		UK/NS	S fibrs						3	T-3 uses 'ip' data T-1, T-2, T-3 changed.
156	Ascaridole	512-85-6	ARM500	168,26	mg/m3	N	6,88	C10H16O2	L	3,3					3	Added
157	Ascorbic acid	50-81-7	ARN000	176,14	mg/m3	N	7,20	C6H8O6	S	192					2	T-2 uses 'iv' data T-0, T-1 changed.
158	Asphalt; (Bitumen; see also Petroleum asphalt)	8052-42-4	ARO500		mg/m3	Y		[Unspecified]	S (?)		<470			0.96-1.1	3	T-2 changed.
159	Auramine; (4.4-[Imidocarbonyl]bis[n.n-dimethylamine])	2465-27-2	IBA000	321,89	mg/m3	N	13,16	C17H21N3ClH.H2O	S						3	T-3 uses 'ip' data T-3 changed.
160	Azaserine; (L-Serine,diazoacetate (ester))	115-02-6	ASA500	173,15	mg/m3	N	7,08	C5H7N3O4	S	157	decom	1.53 E-10	25		3	
161	Azinphos ethyl; (Ethyl guthion)	2642-71-9	EKN000	345,40	mg/m3	N	14,12	C12H16N3O3PS2	S	53	111 @ 0.001 mm	0,0000032	20	1.284 @ 20 C	3	Added
162	Azinphos methyl	86-50-0	ASH500	317,34	mg/m3	N	12,97	C10H12N3O3PS2	S	74				1,44	3	Added
163	Azodicarbamide; (Azodicarbonamide)	123-77-3	ASM270	116,10	mg/m3	N	4,75	C2H4N4O2	S	225				1.65 @20 C	D	T-3 uses 'ip' data T-2, T-3 changed.
164	Barbituric acid	67-52-7	BAG750	128,10	mg/m3	Y	5,24	C4H4O3N2	S	245	260 dec				1	T-3 uses 'ip' data T-1, T-2, T-3 changed.
165	Barium	7440-39-3	BAH250	137,36	mg/m3	N	5,61	Ba (element)	S	725	1640	10	1049	3,5	3	T-2 changed.
166	Barium carbonate	513-77-9	BAJ250	197,35	mg/m3	N	8,07	CO3 .Ba	S	dec				4,43	3	
167	Barium chloride	10361-37-2	BAK000	208,24	mg/m3	N	8,51	BaCl2	S	925	1560			3,856	3	
168	Barium chromate	10294-40-3	BAK250	255,36	mg/m3	N	10,44	Ba.CrO4	S					4,498	3	T-3 changed.
169	Barium cyanide	542-62-1	BAK750	189,38	mg/m3	N	7,74	Ba.C2N2	S						3	T-3 changed.
170	Barium dioxide; (Barium peroxide)	1304-29-6	BAO250	169,34	mg/m3	Y	6,92	BaO2	S	450	800 dec			4,96	3	Added
171	Barium diphenylamine sulfonate	6211-24-1	N.I.S.	317,95	mg/m3	N	13,00	C12H11NO3S. 1/2Ba								T-3 changed.
172	Barium fluoride	7787-32-8	BAM000	175,34	mg/m3	N	7,17	BaF2	S	1280	2137			4,89	3	
173	Barium hydrogen phosphate; (Barium phosphate dibasic)	10048-98-3	BAK500	233,31	mg/m3	N	9,54	BaHPO4	S					4,16	3	
174	Barium hydroxide	17194-00-2	BAM500	171,35	mg/m3	N	7,00	Ba(OH)2	S	408					3	T-3 uses 'ip' data T-3 changed.
175	Barium metaborate	13701-59-2	N.I.S.	222,96	mg/m3	N	9,11	B2-O4.Ba	S							
176	Barium nitrate	10022-31-8	BAN250	261,36	mg/m3	N	10,68	Na2O6.Ba	S	592	dec			3,24	3	T-3 changed.
177	Barium nitrite	z-0005	N.I.S. etc.	229,34	mg/m3	N	9,37	Ba(NO2)2	S							Added
178	Barium oxide	1304-28-5	BAO000	153,34	mg/m3	N	6,27	BaO	S	1923	~2000			5,72	3	T-3 changed.
179	Barium permanganate	7787-36-2	PCK000	375,22	mg/m3	Y	15,34	MnO4.Ba	S		dec			3,77	2	T-0, T-1, T-2 changed.

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180	Barium phosphate	z-0006	BAK500	216,30	mg/m3	N	8,84	BaPO3	S						3	
181	Barium sulfate	7727-43-7	BAP000	233,40	mg/m3	N	9,54	BaSO4	S insol	1580	dec.	~0	20	4,5	2	
182	Bathophenanthroline; (Use 1,10-o-Phenanthroline)	66-71-7	PCY250	180,22	mg/m3	N	7,37	C12H8N2								T-2 uses 'ip' data T-3 uses 'ip' data All Ts changed.
183	Benz(e)acephenanthrylene; (Benz(b)fluoroanthene)	205-99-2	BAW250	252,32	mg/m3	N	10,31	C20H12	S	168		0,0000005	20		3	Likely human carcinogen. Added
184	Benzal chloride	98-87-3	BAY300	161,03	mg/m3	N	6,58	C7H6Cl2	L	-16	214			1,29	3	
185	Benzaldehyde	100-52-7	BAY500	106,13	mg/m3	Y	4,34	C7H6O	L	-26	179	1	26,2	1,041	3	
186	Benzamide	55-21-0	BBB000	121,15	mg/m3	N	4,95	C7H7NO	S	130	288	0,000165		1,341	2	T-3 uses 'ip' data All Ts changed.
187	**Benzene**	71-43-2	BBL250	78,12	ppm	Y	3,19	C6H6	L	5,6	79,4	75	20	0,8794	3	**ERPG-1, -2, -3**
188	Benzene hexachloride	608-73-1	BBP750	290,82	mg/m3	N	11,89	C6H6Cl6	S	113		0,0317		1,87	3	
189	Benzene hexachloride, beta; (trans-alpha-); (Hexachlorocyclohexane, 1,2,3,4,5,6-, beta isomer)	319-85-7	BBR000	290,82	mg/m3	N	11,89	C6H6Cl6	S	297					3	
190	Benzene, 1-(chloromethyl)-4-nitro-; (p-Nitrobenzyl chloride)	100-14-1	NFN400	171,59	mg/m3	N	7,01	C7H6Cl.NO2	S	71	230	0,05	25		3	
191	Benzenearsonic acid; (Phenylarsonic acid)	98-05-5	BBL750	202,05	mg/m3	N	8,26	C6H7AsO3	S	160 dec				1,76	3	Added LOC. All Ts changed
192	Benzenesulfonic acid chloride; (Benzenesulfonyl chloride)	98-09-9	BBS750	176,62	mg/m3	N	7,22	C6H5ClO2S	L	14,5	251-252	0,068	25	1.384 @ 15 C	3	T-0, T-1 changed.
193	Benzenethiol; (Thiophenol; Phenyl mercaptan)	108-98-5	PFL850	110,18	ppm	Y	4,50	C6H5.SH	L	-14,8	169,5	2	25	1.973 @ 25C	3	T-0, T-1, T-2 changed.
194	Benzidene	92-87-5	BBX000	184,26	mg/m3	N	7,53	C12H12N2	S	127	400			1,25	3	
195	Benzo(a)anthracene	56-55-3	BBC250	228,30	mg/m3	N	9,33	C18H12	S	160	400				3	T-2 uses 'sk' data T-3 uses 'iv' data All Ts changed.
196	Benzo(a)pyrene; (Coal tar pitch volatiles)	50-32-8	BCS750	252,32	mg/m3	N	10,31	C20H12	S	179	310->				3	T-2 changed.
197	Benzo(ghi)perylene	191-24-2	BCR000	276,34	mg/m3	N	11,29	C22H12	S	272-273					2	
198	Benzo(k)fluoranthene	207-08-9	BCJ280	252,32	mg/m3	N	10,31	C20H12	S	217	480	9,7E-10	25		3	
199	Benzoic acid	65-85-0	BCL750	122,13	mg/m3	Y	4,99	C7H6O2	S	122	249	1	96	1,316	2	
200	Benzonitrile	100-47-0	BCQ250	103,13	mg/m3	Y	4,22	C7H5N	L	-12,8	191			1,246	3	
201	Benzoquinone, p-; (Quinone)	106-51-4	QQS200	108,10	ppm	N	4,42	C6H4O2	S	115,7	subl.			1,318	3	T-3 changed.
202	Benzotrifluoride	98-08-8	BDH500	146,12	mg/m3	Y	5,97	C7H5F3	L	-29,1	103,46	38,83	25	1.197 @ 15.5 C	3	T-1, T-2, T-3 changed.
203	Benzoyl chloride	98-88-4	BDM500	140,57	ppm	N	5,75	C7H5ClO	L	-0,5	197	1	32,1	1.22 @ 15C	3	
204	Benzoyl peroxide	94-36-0	BDS000	242,24	mg/m3	Y	9,90	C14H10O4	S	106-108.6	dec expls				3	T-2 uses 'sk' data T-2 changed.
205	Benzyl alcohol	100-51-6	BDX500	108,15	ppm	Y	4,42	C7H8O	L	-15,3	205,3	1	58	1,05	3	
206	**Benzyl chloride**	100-44-7	BEE375	126,59	ppm	Y	5,17	C6H5CH2Cl	L	-38,9	178,9	1	22	1,11	3	**ERPG-1, -2, -3**
207	Benzyl cyanide; (Phenylacetonitrile)	140-29-4	PEA750	117,16	mg/m3	Y	4,79	C8H7N	L	-23,8	233,5	1	60	1.0214 @ 15 C	3	
208	Benzyl dimethyl ammonium chloride; (Dimethyloctadecylbenzylammonium chloride)	122-19-0	DTC600	424,23	mg/m3	Y	17,34	C27H50N-Cl	S						3	
209	Benzyl trichloride; (Trichloromethylbenzene)	98-07-7	BFL250	195,47	mg/m3	N	7,99	C7H5Cl3	L	-5	221			1,38	3	T-0, T-1, T-2, changed.

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210	Benzylbutylester phthalic acid; (Benzyl butyl phthalate)	85-68-7	BEC500	312,39	mg/m3	N	12,77	C19H20O4	L	-35	370			1,116	2	
211	**Beryllium**	7440-41-7	BFO750	9,01	mg/m3	Y	0,37	Be	S	1287	2500	~0	20	1,85	3	**ERPG-2, -3**
212	Beryllium chloride	7787-47-5	BFQ000	79,91	mg/m3	Y	3,27	Be.Cl2	S	415	520	1	291	1.899 @ 25 C	3	T-3 changed.
213	Beryllium fluoride	7787-49-7	BFR500	47,01	mg/m3	Y	1,92	Be.F2	S	552	1160			1.986 @ 25 C	3	T-3 changed.
214	Beryllium hydroxide	13327-32-7	BFS250	43,03	mg/m3	N	1,76	H2O2.Be	S	138 dec					3	T-2, T-3 changed.
215	Beryllium nitrate	13597-99-4	BFT000	133,03	mg/m3	N	5,44	BeN2O6	S del	60	100-200 dec				3	T-2, T-3 changed.
216	Beryllium oxide	1304-56-9	BFT250	25,01	mg/m3	N	1,02	BeO	S	2507	3900			3,025	3	T-2, T-3 changed.
217	Bicyclo[2.2.1]heptane-2-carbonitrile, 5-chloro-6-((((methylamino)carbonyl)oxy)imino)-, (1s-(1-alpha,2-beta,4-alpha,5-alpha,6E))-.	15271-41-7	CFF250	241,70	mg/m3	N	9,88	C10H12ClN3O2	S						3	SAX has "3-Chloro-6-cyano-2-norbornanone-o-(methylcarbamoyl). Added
218	Bioxirane, 2,2-; (1,2:3,4-Diepoxybutane)	1464-53-5	BGA750	86,10	ppm	Y	3,52	C4H6O2	L	19	142	16	25	1.113 @ 18 C	3	T-0, T-1, T-2 changed
219	Biphenolol, sodium salt, 2-;	132-27-4	BGJ750	192,20	mg/m3	Y	7,86	C12.H9.O.Na	S						3	
220	Bis(1,1-dimethylethyl)-4-ethylphenol, 2,6-	4130-42-1	N.I.S.	234,38	mg/m3	N	9,58	C16H26O	S	44	272					Listed in TSCA & HC&P; LD50 estimated from "… methylphenol", CASRN = 128-37-0 Added
221	Bis(1,1-dimethylethyl)-4-methylphenol, 2,6-; (BHT [food grade]; 2,6-Di-tert-butyl-p-cresol))	128-37-0	BFW750	220,39	mg/m3	Y	9,01	C15-H24-O	S	68	265			1.048 @ 20 C	2	Added
222	Bis(1-methylethyl) benzene; (Diisopropylbenzene)	25321-09-9	DNN709	162,30	mg/m3	Y	6,63	C12H18	L		205	0.25-0.39	25	0,9	1	Added
223	Bis(1-methylethyl)benzene, 1-4; (p- or 1,4-Diisopropylbenzene)	100-18-5	DNN830	162,30	mg/m3	N	6,63	C12H18	S	64	210			0.8568 @ 20 C	2	
224	Bis(2-ethoxyethyl) ether; (Diethyl carbitol)	112-36-7	DIW800	162,26	mg/m3	Y	6,63	C8H18O3	L	-44	189			0,9082	3	
225	Bis(2-ethyl hexyl) hydrogen phosphate	298-07-7	BJR750	322,48	mg/m3	Y	13,18	C16H35O4P	L		155,015			0,97525	3	
226	Bis(2-hydroxyethyl)dodecan amide, N,N-	120-40-1	BKE500	287,50	ppm	Y	11,75	C16-H33-N-O3	S	36,7					2	RTECS rat oral TDlo data. Added
227	Bis(3-tert-butyl-4-hydroxy-6-methyl-phenyl) sulfide	96-69-5	TFC600	358,54	mg/m3	N	14,65	C22-H30-O2-S	S	150				1,10	3	Added
228	Bis(chloromethyl)ketone; (1,3-Dichloroacetone)	534-07-6	BIK250	126,97	mg/m3	Y	5,19	C3H4Cl2O	S	45	173			1.3826 @ 46 C	3	Added
229	bis(Chloromethyl)oxetane, 3,3-	78-71-7	BIK325	155,03	mg/m3	N	6,34	C5H8Cl2O	L	18,7	200	0,5	25	1.295 @ 25 C	3	Added
230	Bis(o-methylstyryl) benzene, p-; (1,4-bis[2-[2-methylphenyl]ethenyl]-benzene)	13280-61-0	N.I.S.	310,43	mg/m3	N	12,69	C24H22	S	180						TSCA only
231	Bis[2(2-chlorethyl-thio)ester]; (2-2'-Di(3-chloroethylthio)diethyl ether	63918-89-8	DFK200	263,26	mg/m3	N	10,76	C8H16Cl2OS2	L?						3	
232	Bis[2-chloroethyl]sulfide; (HD vesicant; Mustard gas)	505-60-2	BIH250	159,08	mg/m3	Y	6,50	C4H8Cl2S	L	13-14	215-217	0,09	30	1,2741	3	
233	Bismuth	7440-69-9	BKU750	208,98	mg/m3	N	8,54	Bi	S	271,3	1420-1560	1	1021	9,8	3	
234	Bismuth germanate	12233-73-7	BKV750	297,59	mg/m3	N	12,16	BiGeO							3	Used toxicity of Bi
235	Bismuth hydroxide	10361-43-0	N.I.S.	260,00	mg/m3	N	10,63	Bi(OH)3	S							Added. TSCA listed, no toxicity data. **SAR**
236	Bismuth hydroxide nitrate oxide; (White paint)	1304-85-4	BKW100	1462,03	mg/m3	Y	59,76	Bi5H9N4O22	L (?)						1	
237	Bismuth nitrate	10361-44-1	BKW250	395,01	mg/m3	N	16,14	BiN3O9	S	30	80 dec			2,83	3	T-3 uses 'ip' data
238	Bismuth oxide	1304-76-3	BKW600	465,96	mg/m3	N	19,04	Bi2O3	S						1	
239	Bismuth oxychloride	7787-59-9	N.I.S.	260,43	mg/m3	Y	10,64	BiOCl	S		dec			7.7 @ 20C		RTECS & CHRIS listed. Added

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Table 1: Revision 19 of Chemicals for which TEELs have been derived. with some physicochemical data

No.	Chemical Compound	CAS Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity concentration dependent	ppm to mg/m^3 conversion factor	Molecular formula	State at 25oC	MP (FP) oC	BP °C	Vapor Pressure mm Hg	Vapor Pressure T (°C)	SG	HR	Comments
240	Bisphenol A	80-05-7	BLD500	228,31	mg/m3	N	9,33	(CH3)2C(C6H4OH)2	S						3	
241	Bisphenol A diglycidyl ether	1675-54-3	BLD750	340,45	mg/m3	Y	13,91	C21H24O4	L					1.16 @ 20C	3	T-2 uses 'sk' data T-0, T-1 changed.
242	Bitoscanate; (1,4-Phenylenediisothiocyanic acid)	4044-65-9	PFA500	192,26	mg/m3	N	7,86	C8H4N2S2	S	132					3	Added
243	Boric acid	10043-35-3	BMC000	61,84	mg/m3	N	2,53	BH3O3	S	185 dec				1,435	3	
244	Boron	7440-42-8	BMD500	10,81	mg/m3	N	0,44	B	S	2190	3660			2,45	3	
245	Boron carbide	12069-32-8	N.I.S.	55,30	mg/m3	N	2,26	B4C	S	2350	3500	~0	20			TSCA only
246	Boron oxide	1303-86-2	BMG000	69,62	mg/m3	N	2,85	B2O3	S	450	2250			2,46	2	
247	Boron tribromide	10294-33-4	BMG400	250,54	ppm	Y	10,24	BBr3	L	-46	91,3	40	14	2.650 @0C	3	T-0, T-1 changed
248	Boron trichloride	10294-34-5	BMG500	117,16	ppm	Y	4,79	BCl3	L	-107	12,5	760	12,7	1,349	3	T-0, T-1, T-2 changed
249	**Boron trifluoride**	7637-07-2	BMG700	67,81	mg/m3	Y	2,77	BF3	G	-128,4	-100	760	25	2,99	3	**ERPG-1, -2, -3**
250	Boron trifluoride-dimethyl ether	353-42-4	BMH000	113,89	ppm	N	4,65	C2H6).BF3	L	-14	126-127	20	25	1,239	3	All Ts changed
251	Bromadiolone	28772-56-7	BMN000	527,11	mg/m3	N	21,54	C30H23BrO4	S	200-210					3	Added
252	**Bromine**	7726-95-6	BMP000	159,80	ppm	Y	6,53	Br2	L	-7,2	59,4	172	20	2,928	3	**ERPG-1, -2, -3**
253	Bromine chloride	13863-41-7	N.I.S.	115,36	mg/m3	N	4,71	Br.Cl	S							Listed in TSCA & H&N Added
254	Bromine pentafluoride	7789-30-2	BMQ000	174,91	ppm	Y	7,15	BrF5	L fuming	-60,5	40,5	328	20	2.466 @ 25 C	3	Toxicity data for exposure of unspecified animals ex HSDB. Added
255	Bromine trifluoride	7787-71-5	BMQ325	136,91	mg/m3	Y	5,60	Br.F3	L	8,8	127	18	39	2,84	3	T-1, T-2, T-3 changed.
256	Bromo-1-chloro-5,5-dimethylhydantoin, 3-; (Bromochlorodimethylimidazokidinedione)	126-06-7	BNA325	241,49	mg/m3	Y	9,87	C5H6BrClN2O2	S						2	
257	Bromo-3-chloro-5,5-dimethylhydantoin, 1-	32718-18-6	N.I.S.	241,49	mg/m3	Y	9,87	[Unknown]	S							
258	Bromoacetone	598-31-2	BNZ000	136,99	ppm	N	5,60	C3H5BrO	G			760	25	1,634	3	
259	Bromobenzene; (Phenyl bromide)	108-86-1	PEO500	157,02	ppm	Y	6,42	C6H5Br	L	-30,5	156,6	10	40	1,499	3	T-2 uses 'ip' data T-0, T-1, T-2 changed.
260	Bromochlorobenzene, m-	108-37-2	N.I.S.	191,46	mg/m3	N	7,83	C6-H4-Br-Cl	L?							
261	Bromochlorobenzene, p-	106-39-8	N.I.S.	191,46	mg/m3	N	7,83	C6-H4-Br-Cl	L?							
262	Bromochloromethane	74-97-5	CES650	129,39	ppm	N	5,29	CH2BrCl	L	-88	67,8			1,93	3	
263	Bromocresol green	76-60-8	N.I.S.	698,05	mg/m3	N	28,53	C21H14Br4O5S	S							
264	Bromocresol purple	115-40-2	N.I.S.	540,22	mg/m3	N	22,08	C21-H16-Br2-O5-S								
265	Bromocyclohexanol, Cis-2-	16536-57-5	N.I.S. etc.	179,06	ppm	N	7,32	C6H11BrO						1.4604 @ 20 C		Added. HC&P has 2-Bromo-1-cyclohexanol, CASRN = 24796-87-0, same MF and MW **SAR**
266	Bromodichloromethane	75-27-4	BND500	163,83	mg/m3	N	6,70	CHBrCl2	L	-57,1	88,5			1,971	3	
267	Bromoform; (Tribromomethane)	75-25-2	BNL000	252,75	ppm	Y	10,33	CHBr3	L	8,3	149,4	5	20	2,887	3	T-2 uses 'ip' data T-1, T-2 changed.
268	Bromonaphthalene	90-11-9	BNS200	207,08	mg/m3	N	8,46	C10H7Br	S						2	T-3 uses 'ip' data T-3 changed.
269	Bromophenyl phenyl ether, 4-	101-55-3	N.I.S	249,11	mg/m3	N	10,18	C12H9BrO	L	18,72	310,1	0,0015	20	1.6088 @ 20 C		

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No.	Chemical Compound	CAS Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity concentration dependent	ppm to mg/m^3 conversion factor	Molecular formula	State at 25oC	MP (FP) oC	BP °C	Vapor Pressure mm Hg	Vapor Pressure T (°C)	SG	HR	Comments
270	Bromopropane, 1-	106-94-5	BNX750	123,01	ppm	N	5,03	BrC3H7	L	-110	71	110,8	18	1,35	3	
271	Bromotrifluoroethylene	598-73-2	BOJ000	160,94	ppm	N	6,58	F3.C2.Br	G		-2,5				3	
272	Bromotrifluoromethane; (Trifluorobromomethane)	75-63-8	TJY100	148,92	ppm	Y	6,09	CBrF3	G	-168	-58	>760		1,58	1	
273	Brucine (as srychnine)	357-57-3	BOL750	394,51	mg/m3	N	16,12	C23H26N2O4	S	178					3	T-3 uses 'ip' data T-3 changed.
274	**Butadiene,1,3-**	106-99-0	BOP500	54,10	ppm	Y	2,21	CH2=CHCH=CH2	G	-108,9	-4,4	>760		0,621	3	**ERPG-1, -2, -3**
275	Butane	106-97-8	BOR500	58,14	ppm	N	2,38	C4H10	G	-135	-0,5	1520	18,8	0,599	3	T-3 limited to LEL=1.9%
276	Butanedioic acid, diethyl ester; (Succinic acid, diethyl ester)	123-25-1	SNB000	174,22	ppm	Y	7,12	C8H14O4	L	-21	217,7				2	Added
277	Butanedioic acid, dimethyl ester; (Succinic acid, dimethyl ester)	106-65-0	SNB100	146,16	ppm	N	5,97	C6H10O4	L	19,5	195,3			1.1202 @ 18 C	1	RTECS rat oral LD50 > 5g/kg Added
278	Butanediol dinitrate, 1,4-	3457-91-8	N.I.S. etc.	180,00	ppm	N	7,36	[Unknown]								Added. No toxicity data found. **SAR**
279	Butanenitrile; (Butyronitrile)	109-74-0	BSX250	69,12	ppm	N	2,83	C4H7N	L	-112,6	117	19,5	25	0.796 @ 15 C	3	Added
280	Butanethiol; (n-Butyl mercaptan)	109-79-5	BRR900	90,20	ppm	Y	3,69	C4H10S	L	-116	98			0,8365	3	T-1, T-2 changed.
281	Butanoic acid, butyl ester; (n-Butyl n-butanoate)	109-21-7	BQM500	144,24	ppm	Y	5,90	C8H16O2	L		166			0.872 @ 20 C	3	Added/ T-3 uses 'ip' data
282	Butanone, 2-; (MEK)	78-93-3	MKA400	72,12	ppm	Y	2,95	CH3COCH2CH3	L	-86,4	79,6	71	20	0,80615	3	
283	Butene, 1-; (Butylene)	106-98-9	BOW250	56,11	ppm	N	2,29	C4H8	G	-185,3	-6,3	3480	21	0.668 @ 0 C	3	
284	Butene, 2-	107-01-7	BOW255	56,11	ppm	N	2,29	C4H8	G			>760	25		2	
285	Butene, cis-2-; (cis-1,2-Dimethylethylene)	590-18-1	N.I.S.	56,11	ppm	N	2,29	C4H8	G	-138,9	3,7	1600	25	0,616		Asphixiant: all Ts changed to LEL=1.7%
286	Butene-trans, 2-; (trans-1,2-Dimethylethylene)	624-64-6	N.I.S.	56,11	ppm	Y	2,29	C4H8	G	-105,5	0,8	1750	25	0.599 @ 25 C		
287	Butoxy ethoxy)ethyl thiocyanate, 2-(2-	112-56-1	BPL250	203,33	mg/m3	N	8,31	C9H17NO2S	L		120-125 @0.25mm				3	
288	Butoxyethanol acetate; 2- (Ethylene glycol monobutyl ether acetate)	112-07-2	BPM000	160,24	ppm	N	6,55	C8H16O3	L	-63,5	192,3	0,3		0,9424	3	T-2 changed
289	Butoxyethanol, 2-; (Glycol ether EB)	111-76-2	BPJ850	118,20	ppm	Y	4,83	C6H14O2	L	-74,8	171-172	0,8		0,9012	3	
290	Butoxyethoxy)-ethanol, 2-(2-; (Diethylene glycol monobutyl ether)	112-34-5	DJF200	162,26	mg/m3	Y	6,63	C8H18O3	L	-68,1	230,6	0,02	20	0,9553	2	
291	**Butyl acetate, n-**	123-86-4	BPU750	116,18	ppm	Y	4,75	C6H12O2	L	-77	126	15	25	0,88	3	**ERPG-1, -2, -3**
292	Butyl acetate, sec-	105-46-4	BPV000	116,18	ppm	Y	4,75	C6H12O2	L	-98,9	112	17	20	0.862-0.866 @ 20 C	3	
293	Butyl acetate, tert-	540-88-5	BPV100	116,18	ppm	N	4,75	C6H12O2	L		97,8	47	25	0.8593 @ 25 C		
294	**Butyl acrylate, n-**	141-32-2	BPW100	128,19	ppm	Y	5,24	CH2CHCOOHC4H9	L	-69	~148	3,2	20	0,89	3	**ERPG-2, -3; ignored ERPG-1**
295	Butyl alcohol, n-	71-36-3	BPW500	74,14	ppm	Y	3,03	C4H10O	L	-88,9	117,5	5,5	20	0,80978	3	
296	Butyl alcohol, sec-; (sec-butanol)	78-92-2	BPW750	74,14	ppm	Y	3,03	C4H10O	L	-89	99,5	10	20	0,808	3	T-2 changed.
297	Butyl bis(2-ethylhexyl)phosphate	z-0007	N.I.S. etc.	378,53	ppm	N	15,47	[Unknown]								Added. No toxicity data found. **SAR**
298	Butyl glycidyl ether, n-	2426-08-6	BRK750	130,21	ppm	Y	5,32	C4H9OH2CHOCH2	L		164	3,2	25		2	T-2 uses 'sk' data Added
299	**Butyl isocyanate, n-**	111-36-4	BRQ500	99,15	ppm	Y	4,05	C4H9NCO	L		115	17	24	0,88	3	**ERPG-1, -2, -3**

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300	Butyl perbenzoate, tert-	614-45-9	BSC500	194,25	mg/m3	Y	7,94	C11H14O3	L	8	112	0,33	50	1	3	Added. RTECS r & mu 240 min LC > 57 mg/m3
301	Butyl propanoate; (Propanoic acid, butyl ester)	590-01-2	BSJ500	130,20	mg/m3	Y	5,32	C7-H14-O2	L	-89,6	145,4			0.893 @ 0 C	3	Added.
302	Butyl-3-iodo-propnyl ester carbamic acid	55406-53-6	N.I.S.	281,11	mg/m3	N	11,49	C8H12INO2	S							
303	Butylamine, (S)-sec-	513-49-5	BPY100	73,16	mg/m3	Y	2,99	C4H11N	L	-104	63	178	25	0.724 @ 20 C	3	
304	Butylamine, n-	109-73-9	BPX750	73,16	ppm	Y	2,99	C4H11N	L	-50	78	92,9	25	0.7327 @ 20 C	3	T-0, T-1, T-2 changed.
305	Butylamine, sec-	13952-84-6	BPY000	73,16	ppm	Y	2,99	C4H11N	L	-104	63	178	25	0.724 @ 20 C	3	
306	Butylamine, tert-	75-64-9	BPY250	73,16	ppm	Y	2,99	C4H11N	L	-67,5	46,4	372	25	0,7	3	
307	Butylbenzene, n-; (1-Phenylbutane)	104-51-8	BQI750	134,24	ppm	Y	5,49	C6H5.C4H9	L	-87,9	183,1	1	22,7	1,489	1	
308	Butylbenzene, sec-; (2-Phenylbutane)	135-98-8	BQJ000	134,24	ppm	Y	5,49	C6H5C(CH3)C2H5	L	-75,68	170,65	1	18,6	0,8621	3	
309	Butylbenzene, tert-	98-06-6	BQJ250	134,24	ppm	Y	5,49	C6H5C(CH3)3	L	-57,8	169,1	1	13	0,866	3	
310	Butylcyclohexane; (1-Cyclohexylbutane)	1678-93-9	N.I.S.	140,27	ppm	N	5,73	C6H11(CH2)3.CH3	L		101	2,9	37,7	0,8		
311	Butylcyclohexanone, p-tert-	98-53-3	BQW250	154,28	mg/m3	Y	6,31	C10H18O	S	49-50	90-92 @ 9mm				1	
312	Butylpyrocatechol, 4-tert-; (4-tert-Butylcatechol)	98-29-3	BSK000	166,24	mg/m3	Y	6,79	C10H14O2	S	52	285	0,0028	25	1,0496	3	
313	Butyne-1,4-diol, 2-; (1,4-Butynediol)	110-65-6	BST500	86,10	mg/m3	N	3,52	C4H6O2	S	57	238				3	
314	Butyraldehyde	123-72-8	BSU250	72,12	ppm	Y	2,95	C4H8O	L	-100	74,7			0,7988	3	
315	Butyric acid	107-92-6	BSW000	88,12	ppm	Y	3,60	C4H8O2	L	-7,9	163,5	0,43	20	0,959	2	
316	C.I. Basic Green 4; (Aizen malachite green)	569-64-2	AFG500	364,95	mg/m3	N	14,92	C23H25N2.Cl	S						3	.
317	C.I. Basic Red 1; (Rhodamine 6G extra base)	989-38-8	RGW000	479,06	mg/m3	N	19,58	C28H30N2O3.ClH	S						3	T-2 uses 'ip' data T-3 uses 'ip' data All Ts changed.
318	C.I. Direct Black 38; (Apomine black GX)	1937-37-7	AQP000	781,78	mg/m3	Y	31,95	C34H25N9O7S2.2Na	S						3	
319	C.I. Food Red 15; (FD&C Red No. 19)	81-88-9	FAG070	479,06	mg/m3	N	19,58	C28H31N2O3.Cl	S						2	T-2 uses 'ip' data T-3 uses 'ip' data All Ts changed.
320	C.I. pigment green 36	14302-13-7	CMS140	1393,30	mg/m3	N	56,95	C32.Br6.Cl10.Cu.N8	S						D	
321	C.I. pigment yellow 13; Butanamide, 2,2'-((3,3'-dichloro(1,1'-biphenyl)-4,4'-diyl)bis(azo)biz(N-(2,4-dimethylphenyl)-3-oxo-	5102-83-0	CMS208	685,66	mg/m3	N	28,02	C36.H34.Cl2.N6.O4	S						1	
322	C.I. pigment yellow 14	5468-75-7	CMS212	657,60	mg/m3	N	26,88	C34.H30.Cl2.N6.O4	S						1	
323	C.I. pigment yellow 36; (Zinc chromate)	13530-65-9	ZFJ100	183,39	mg/m3	N	7,50	CrH2O4.Zn	S	316					3	T-2, T-3 changed.
324	C.I. Solvent Yellow 3	97-56-3	AIC250	225,32	mg/m3	N	9,21	C14H15N3	L	100			7,5E-07		3	
325	C8 Alkane	z-0008	N.I.S.	114,00	ppm	N	4,66	[Unspecified]								Added
326	Cacodylic acid (as inorganic As)	75-60-5	HKC000	138,01	mg/m3	N	5,64	(CH3)2As OOH	S	192					3	T-2, T-3 changed.
327	Cadmium & compounds	7440-43-9	CAD000	112,40	mg/m3	N	4,59	Cd	S	320,9	767	~0	20	8,642	3	T-2, T-3 changed.
328	Cadmium bromide	7789-42-6	CAD600	272,22	mg/m3	N	11,13	CdBr2	S	570	863			5,192	3	T-2, T-3 changed.
329	Cadmium carbonate	513-78-0	CAD800	172,41	mg/m3	N	7,05	Cd.CO3	S						3	T-2, T-3 changed.

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330	Cadmium chloride	10108-64-2	CAE250	183,30	mg/m3	N	7,49	CdCl2	S	568	969,6	10	656	4,047656	3	T-3 changed.
331	Cadmium fluoride	7790-79-6	CAG250	150,40	mg/m3	N	6,15	CdF2	S	1078	1748	1	1112	6,64	3	T-2, T-3 changed.
332	Cadmium hydroxide	21041-95-2	CAG525	146,42	mg/m3	N	5,98	CdH2O2	S	580 dec	dec			2,343	3	All Ts changed
333	Cadmium nitrate	10325-94-7	CAH000	236,42	mg/m3	N	9,66	CdN2O6	S	350-360				2,455	3	T-2, T-3 changed.
334	Cadmium nitrate tetrahydrate	10022-68-1	CAH250	308,50	mg/m3	Y	12,61	N2O6-Cd-4H2O	S	59,4					3	All Ts changed
335	Cadmium nitrite	z-0009	N.I.S. etc.	204,41	mg/m3	N	8,35	Cd.(NO2)2	S						3	Added
336	Cadmium oxide	1306-19-0	CAH500	128,40	mg/m3	N	5,25	CdO	S amor	<1426		1	1000	6,95	3	T-2, T-3 changed.
337	Cadmium stearate; (Octadecanoic acid, cadmium salt)	2223-93-0	OAT000	681,48	mg/m3	N	27,85	Cd.C36H72O4	S						3	T-2, T-3 changed.
338	Cadmium sulfate	10124-36-4	CAJ000	208,64	mg/m3	N	8,53	O4S.Cd	S	1000				4,691	3	T-2, T-3 changed.
339	Cadmium tungstate	7790-85-4	N.I.S.	360,26	mg/m3	N	14,72	CdWO4	S							T-2, T-3 changed.
340	Cadmium(II) acetate	543-90-8	CAD250	116,25	mg/m3	N	4,75	C2H4O2.1/2Cd	S	256	dec			2,341	3	T-2, T-3 changed.
341	Calcium	7440-70-2	CAL250	40,08	mg/m3	N	1,64	Ca						1,54	3	
342	Calcium Arsenate	7778-44-1	ARB750	398,08	mg/m3	N	16,27	As2O8.3Ca	S	1,455				3,62	3	Added
343	Calcium carbide	75-20-7	CAN750	64,10	mg/m3	N	2,62	Ca.C2	S	2300				2,222	3	
344	Calcium carbonate; (Dolomite, Limestone)	1317-65-3	CAO000	100,09	mg/m3	Y	4,09	CaCO3	S	825				2.7-2.95	1	
345	Calcium chloride	10043-52-4	CAO750	110,98	mg/m3	N	4,54	CaCl2	S	782	>1600			2,512	2	T-2 uses 'iv' data T-0, T-1, T-2 changed.
346	Calcium chloride dihydrate	10035-04-8	N.I.S.	147,02	mg/m3	N	6,01	Ca.Cl2.2H2O	S	772	1670			2.152 @ 15 C		T-3 uses 'ip' data Added
347	Calcium chromate	13765-19-0	CAP500	156,08	mg/m3	N	6,38	CrO4.Ca	S						3	T-2 changed.
348	Calcium cyanamide	156-62-7	CAQ250	80,11	mg/m3	N	3,27	Ca.CN2	S	1300	1500 subl			1,083	3	T-2 changed.
349	Calcium fluoride	7789-75-5	CAS000	78,08	mg/m3	N	3,19	CaF2	S	1418				3,18	2	T-0, T-1, T-2 changed.
350	Calcium formate	544-17-2	CAS250	130,12	mg/m3	Y	5,32	Ca.C2H2O4	S						3	
351	Calcium hydride	7789-78-8	CAT200	42,24	mg/m3	N	1,73	CaH2	S	816 in H2O	675dec			1,7	3	
352	Calcium hydroxide	1305-62-0	CAT225	74,10	mg/m3	Y	3,03	CaH2O2	S	580 dec				2,343	2	
353	Calcium hydroxyapatite	1306-06-5	N.I.S.	502,31	mg/m3	N	20,53	Ca5.OH.(PO4)3	S							Added. RTECS toxicity data. **SAR**?
354	Calcium hypochlorite; (Calcium oxychloride)	7778-54-3	HOV500	142,98	mg/m3	Y	5,84	Cl2O2.Ca	S	100	dec			2,35	3	
355	Calcium nitrite	13780-06-8	N.I.S.	132,09	mg/m3	N	5,40	Ca(NO2)2	S							Added. TSCA, H&N list as "Nitrous acid, calcium salt", MF = Ca.2(HNO2), MW = 134.10 **SAR**
356	Calcium oxalate	563-72-4	N.I.S.	128,10	mg/m3	N	5,24	CaC2O4	S							Added. TSCA, H&N list as "Ethanedioic acid, calcium salt", MF = C2H2O4.Ca, MW = 130.11 **SAR**
357	Calcium oxide	1305-78-8	CAU500	56,08	mg/m3	Y	2,29	CaO	S	2570	2850			3,37	3	
358	Calcium phosphate; (Tricalcium phosphate)	10103-46-5	N.I.S.	310,18	mg/m3	Y	12,68	Ca3(PO4)2	S					2.5 @ 20 C		Added. Listed in CHRIS, OHMTADS & TSCA. MW = 310.18 is for tricalcium phosphate **SAR**
359	Calcium sulfate	7778-18-9	CAX500	136,14	mg/m3	N	5,56	CaSO4	S	1570				2,964	1	

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360	Calcium(II) nitrate	10124-37-5	CAU000	164,10	mg/m3	N	6,71	Ca(NO3)2	S	561	Dec			2,36	3	
361	Calcium(II) nitrate tetrahydrate (1:2:4)	13477-34-4	CAU250	236,18	mg/m3	Y	9,65	N2O6.Ca.4H2O	S	43	dec			2,36	2	
362	Camphor	76-22-2	CBA750	152,26	mg/m3	Y	6,22	C10H16O	S	180	204			0,992	3	
363	Cantharidin	56-25-7	CBE750	196,22	mg/m3	N	8,02	C10H12O4	S	218	84 sublms	0,02	25		3	T-3 uses 'ip' data
364	Caprolactam (dust)	105-60-2	CBF700	115,18	mg/m3	Y	4,71	C6H11NO	S	69	139 @ 12 mm	6	120	1.05 70%sol	2	
365	Caprylyl chloride; (Octanoyl chloride)	111-64-8	N.I.S.	162,68	mg/m3	Y	6,65	C8H15ClO	L	-63	195,6	2,5	20	0.9535 @15C		T-1, T-2, T-3 changed.
366	Captan	133-06-2	CBG000	300,59	mg/m3	N	12,29	C9H8Cl3NO2S	S	172-173				1,745	3	
367	Carbachol Chloride	51-83-2	CBH250	182,68	mg/m3	N	7,47	C6H15N2O2.Cl	S	204-205					3	Added.
368	Carbamic Acid, Methyl-, O-(((2,4-Dimethyl-1, 3-Dithiolan-2-yl)Methylene)Amino)-	26419-73-8	DRR000	234,36	mg/m3	N	9,58	C8H14N2O2S2	S						3	SAX has "2,4-Dimethyl-1,3-dithiolane-2-carboxaldehyde o-(methylcarbamoyl)oxime. Added
369	Carbanolate (propanal,-); (Aldecarb; Methyl-2-(methylthio) propanalde-hyde oxime, 2-)	116-06-3	CBM500	190,29	mg/m3	N	7,78	C7H14N2O2S	S						3	
370	Carbaryl	63-25-2	CBM750	201,24	mg/m3	N	8,22	C12H11NO2	S	142				1,232	3	
371	Carbazole	86-74-8	CBN000	167,22	mg/m3	N	6,83	C12H9N	S	244,8	354,7	400	323	1.10 @18	3	T-3 uses 'ip' data All Ts changed.
372	Carbofuran	1563-66-2	CBS275	221,28	mg/m3	N	9,04	C12H15.NO3	S	150-152		0,00002	33	1.180 @ 20 C	3	Added.
373	Carbon black	1333-86-4	CBT750	12,00	mg/m3	N	0,49	C	S						1	
374	Carbon dioxide	124-38-9	CBU250	44,01	ppm	Y	1,80	CO2	G	-78.3 subl	subl	>760		1.53 gas	1	
375	**Carbon disulfide**	75-15-0	CBV500	76,13	ppm	Y	3,11	CS2	L	-111,7	46,7	297	20	1,293	3	**ERPG-2, -3; ignored ERPG-1**
376	**Carbon monoxide**	630-08-0	CBW750	28,01	ppm	Y	1,14	CO	G	-205	-191,7	>760		1.25 gas @ 0 C	3	**ERPG-1, -2, -3**
377	**Carbon tetrachloride**	56-23-5	CBY000	153,81	ppm	Y	6,29	CCl4	L	-22,8	76,7	91	20	1,632	3	**ERPG-1, -2, -3**
378	Carbon; (Graphite, CASRN 7782-42-5)	7440-44-0	CBT500	12,01	mg/m3	N	0,49	C	S	3652-97 subl	~4200			2,25	1	
379	Carbonic acid, calcium salt	471-34-1	CAT775	100,09	mg/m3	Y	4,09	CO3·Ca	S						1	
380	Carbonyl fluoride	353-50-4	CCA500	66,01	ppm	Y	2,70	CF2O	G	-114	-83	>760		1.139 @ -114C	3	
381	Carbonyl sulfide	463-58-1	CCC000	60,07	ppm	N	2,46	COS	L	-138	49,9			1.24 liq	3	
382	Carbophenothion; (Trithion)	786-19-6	TNP250	342,87	mg/m3	N	14,01	C11H16ClO2.PS3	L		82@ 0.1 mm	0,0000003	20	1.29 @ 20 C	3	Added
383	Carboxylic acid sodium salt	16550-39-3	MBV775	266,34	mg/m3	N	10,89	C16H19O2.Na	S (?)						D	
384	Castor oil	8001-79-4	CCP250		mg/m3	Y		[Unknown]	L	-12	313			0,96	1	T-2 uses 'sk' data All Ts changed.
385	Catechol	120-80-9	CCP850	110,12	ppm	N	4,50	C6H6O2	S	105	240	10	118,3	1,341	3	
386	Cellulose	9004-34-6	CCU150	160000,00	mg/m3	N	6539,42	(C6H10O5)n	S					1.27-1.61	1	RTECS r LD50 & LC50 greater than values entered. Added
387	Ceric ammonium nitrate	16774-21-3	N.I.S.	548,23	mg/m3	N	22,41	Ce-(NH4)2-(NO3)6	S						2	CASRN and MF ex TSCA All Ts changed.
388	Ceric ammonium sulfate	7637-03-8	N.I.S.	600,54	mg/m3	N	24,54	Ce.4(NH3).4(H2.S.O4)	S						2	CASRN and MF ex TSCA All Ts changed.
389	Ceric oxide	1306-38-3	CCY000	172,12	mg/m3	N	7,03	Ce.O2	S	2600				7,65	1	Rat oral LD50 > 5 g/kg T-0, T-1, T-2 changed.

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390	Cerium	7440-45-1	CCY250	140,13	mg/m3	N	5,73	Ce	S	804	3433			6,9	3	
391	Cerium chloride	7790-86-5	CCY750	246,47	mg/m3	N	10,07	Ce.Cl3	S del	722	1705			3,92	3	T-0, T-1, T-2 changed.
392	Cerium fluoride	7758-88-5	CDA750	197,12	mg/m3	N	8,06	Ce.F3	S	1460	2300			6,16	1	Rat oral LD50 > 5 g/kg Added
393	Cerium hydroxide	15785-09-8	N.I.S.	191,14	mg/m3	N	7,81	Ce(OH)3	S							Added. Listed in TSCA **SAR**
394	Cerium nitrate hexahydrate	10294-41-4	CDB250	434,27	mg/m3	Y	17,75	N3O9Ce.6H2O	S						3	
395	Cerium oxalate	z-0010	CDA250	316,16	mg/m3	N	12,92	Ce.(C2O4)2	S						2	
396	Cerium sulfate	13590-82-4	CDB400	332,24	mg/m3	N	13,58	Ce.(SO4)2	S						D	All Ts changed.
397	Cerium trioxide	1345-13-7	N.I.S.	328,24	mg/m3	N	13,42	Ce2-O3	S	1692				6,86		Added. RTECS toxicity data, insoluble compound
398	Cerous nitrate; (Cerium(III) nitrate)	10108-73-3	CDB000	326,15	mg/m3	N	13,33	Ce.(NO3)3	S	150 lose water	200 dec				3	T-0, T-1, T-2 changed.
399	Cerous nitrite	z-0011	N.I.S. etc.	278,11	mg/m3	N	11,37	Ce.(NO2)3	S							Added. No toxicity data found. **SAR**
400	Cesium	7440-46-2	CDC000	132,91	mg/m3	N	5,43	Cs	S	28,5	668	1	279	1,873	3	T-3 uses 'ip' data
401	Cesium carbonate	534-17-8	CDC750	325,83	mg/m3	N	13,32	CO3·2Cs	S						2	
402	Cesium chloride	7647-17-8	CDD000	168,36	mg/m3	N	6,88	CsCl	S	646	1209			3,99	2	
403	Cesium fluoride	13400-13-0	CDD500	151,91	mg/m3	N	6,21	CsF	S	703	1251				3	
404	Cesium hydroxide	21351-79-1	CDD750	149,91	mg/m3	Y	6,13	CsOH	S deliq	315				3,675	3	CASRN = 12182-83-1 in Intertox not found. Added
405	Cesium iodide	7789-17-5	CDE000	259,81	mg/m3	N	10,62	CsI	S	626	1280				2	
406	Cesium nitrate	7789-18-6	CDE250	194,92	mg/m3	N	7,97	NO3·Cs	Pwdr	414	dec.			3,685	2	
407	Cesium nitrite	z-0012	N.I.S.	178,91	mg/m3	N	7,31	CsNO2	S							Added. No toxicity data found. **SAR**
408	Chloramben; (3-Amino-2,5-dichlorobenzoic acid)	133-90-4	AJM000	206,03	mg/m3	N	8,42	C7H5Cl2NO2	S	200-201		0,007	100		2	
409	Chlordane	57-74-9	CDR750	409,76	mg/m3	N	16,75	C10H6Cl8	L		175			1.57-1.63	3	
410	Chlorfenvinfos	470-90-6	CDS750	359,58	mg/m3	N	14,70	C12H14Cl3O4P	L	-23	124-126 @0.008 mm			1.36 @ 20 C	3	Added
411	Chlorinated benzene; (Chlorobenzene)	108-90-7	CEJ125	112,56	ppm	N	4,60	C6.H5.Cl	L	-45,6	167,8	12	25	1,11	3	T-2 changed.
412	Chlorinated polyolefins	68410-99-1	N.I.S.		mg/m3	N		N/A								
413	**Chlorine**	7782-50-5	CDV750	70,90	ppm	Y	2,90	Cl2	G	-101,1	-33,9	5740	25	1.47 liq @ 0 C	3	**ERPG-1, -2, -3**
414	**Chlorine dioxide**	10049-04-4	CDW450	67,45	ppm	Y	2,76	ClO2	G	-59	11			3.09 @11C	3	**ERPG-2, -3**
415	Chlorine Hi dry granular (as Cl)	z-0013	N.I.S.	35,45	ppm	Y	1,45	N/A								
416	Chlorine pentafluoride	13637-63-3	CDX250	130,45	ppm	Y	5,33	ClF5	G	-103	-13,1			2.105 @ -13.1 C	3	Added
417	**Chlorine trifluoride**	7790-91-2	CDX750	92,45	ppm	Y	3,78	ClF3	G	-76,1	11,7	>760		1,77	3	**ERPG-1, -2, -3**
418	Chlormephos	24934-91-6	CDY299	234,70	mg/m3	N	9,59	C5H12ClO2.PS2	L		81-85 @ 0.1 mm	0,0056	30	1,26	3	Added
419	Chlormequat Chloride; (Choline dichloride)	999-81-5	CMF400	158,09	mg/m3	Y	6,46	C5H13ClN.Cl	S	245 dec		7,5E-08	20		3	Added

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420	**Chloro-1,1-difluoroethane, 1-; (HCFC-142b)**	75-68-3	CFX250	100,50	ppm	N	4,11	C2H3ClF2	G	-131	-9,5	>760		1,19	1	**ERPG-1, -2, -3**
421	Chloro-2,4-dinitrobenzene, 1-	97-00-7	CGM000	202,56	mg/m3	Y	8,28	C6H3ClN2O4	S	51-a,43-b,27-g	315			1,68	3	a=alpha, b=beta, g=gamma form. Added
422	Chloro-2-methyl-1-propene, 3-	563-47-3	CIU750	90,56	ppm	N	3,70	H2C=C(CH3) CH2Cl	L	<-80	72,17	101,7	20	0.9257 @ 20 C	3	
423	Chloroacetaldehyde	107-20-0	CDY500	78,50	ppm	Y	3,21	ClCH2CHO	L	-19,4	85,5	100	20	1,19	3	T-1, T-2 changed
424	Chloroacetic acid	79-11-8	CEA000	94,50	mg/m3	N	3,86	C2H3ClO2	S	61,3	189			1,58	3	T-1, T-2 changed
425	Chloroacetone	78-95-5	CDN200	92,53	ppm	N	3,78	C3H5ClO	L	-44,5	119			1,162	3	T-0, T-1 changed
426	**Chloroacetyl chloride**	79-04-9	CEC250	112,94	ppm	Y	4,62	Cl.CH2.COCl	L	-22,5	108	19	20	1,495	3	**ERPG-1, -2, -3**
427	Chloroallyl)-3,5,7-triaza-1-azoniaadamantane chloride, 1-(3-	4080-31-3	CEG550	251,19	mg/m3	Y	10,27	C9H16ClN4.Cl							3	
428	Chloroaniline, p-	106-47-8	CEH680	127,58	mg/m3	N	5,21	C6H6ClN	S	72,5	232	-		1,169	3	
429	Chlorobenzylate; (4,4'-Dichloro-benzilic acid ethyl ester)	510-15-6	DER000	325,20	mg/m3	Y	13,29	C16H14Cl2O3	L		146-148	<<0.001			3	
430	Chlorobenzylidene malononitrile, o-	2698-41-1	CEQ600	188,62	mg/m3	Y	7,71	C10H5ClN2	S	95	313	0,00003	20		3	
431	Chlorocyclohexanol, trans-2-	6628-80-4	N.I.S	134,61	mg/m3	N	5,50	C6H11ClO	S	29	93				3	
432	Chlorocyclohexene; (4-Chlorocyclohexene)	930-65-4	N.I.S. etc.	116,59	ppm	N	4,77	C6H9Cl	L							Added. Listed in H&N **SAR**
433	Chlorodiethylaluminum; (Diethylaluminum chloride)	96-10-6	DHI885	110,56	mg/m3	Y	4,52	(CH3CH2)2.AlCl	S	-50	208			0.961 @ 25 C	3	SAX MW incorrect. Added
434	Chlorodifluoromethane	75-45-6	CFX500	86,47	ppm	N	3,53	CHClF2	G	-146,1	-40,6	9,4		1.49 gas @ 69 C	1	T-2 changed.
435	Chloroethanesulfonyl chloride, 2-	1622-32-8	CGO125	163,02	mg/m3	N	6,66	C2H4Cl2O2S	S		200-203			1.555 @ 20 C	3	Added
436	Chloroethyl Chloroformate	627-11-2	CGU199	142,97	mg/m3	N	5,84	C3H4Cl2O2	L		155,7	13	48-49	1.3847 @ 20 C	3	Added
437	Chloroethyl vinyl ether, 2-; (Ethene, 2-chloroethoxy-)	110-75-8	CHI250	106,56	ppm	Y	4,36	C4H7ClO	L	-70,3	108	30	25	1.05 @ 20 C	3	.
438	**Chloroform**	67-66-3	CHJ500	119,37	ppm	Y	4,88	CH.Cl3	L	-63,3	61,7	160	20	1,481	3	**ERPG-2, -3**
439	Chloro-m-cresol, 4-	59-50-7	CFD990	142,59	mg/m3	N	5,83	C7H7ClO	S	55,5	235				3	
440	**Chloromethyl methyl ether**	107-30-2	CIO250	80,52	ppm	N	3,29	C2H5ClO	L					1,07	3	**ERPG-2, -3**
441	Chloromethyl(trichloro)silane	1558-25-4	CIY325	183,92	mg/m3	N	7,52	CH2Cl4Si	L	111-112				1,465	3	
442	Chloronaphthalene, 1- (alpha)	90-13-1	CIZ000	162,62	mg/m3	N	6,65	C10H7Cl	L	-20	263			1,194	2	
443	Chloronapthalene,2- (beta)	91-58-7	CJA000	162,62	mg/m3	N	6,65	C10H7Cl	S	61	256			1,377	2	T-2 changed
444	Chloronitrobenzene, p- ; (p-nitrochlrobenzene)	100-00-5	NFS525	157,56	mg/m3	N	6,44	C6H4ClNO2	S	83	242			1,52	3	T-2 changed.
445	Chloronitrophenol, 2-	619-08-9	CJD250	173,56	ppm	N	7,09	C6-H4-Cl-N-O3	S	111					3	Added
446	Chloroperoxybenzoic acid, 3-	937-14-4	CJI750	172,57	mg/m3	N	7,05	ClC6H4CO:OOH	S	94					2	T-2 uses 'sk' data All Ts changed.
447	Chlorophacinone	3691-35-8	CJJ000	374,83	mg/m3	N	15,32	C23H15ClO3	S						3	Added
448	Chlorophenol, m-	108-43-0	CJK500	128,56	mg/m3	N	5,25	C6H5ClO	S	33	210-214	1	44,2	1,245	3	T-2 uses 'sk' data T-0, T-1, T-2 changed.
449	Chlorophenol, o-	95-57-8	CJK250	128,56	ppm	N	5,25	C6H5ClO	L	7	174,5	1	12,1	1,263	3	

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450	Chlorophenyl phenyl ether, 4-	7005-72-3	N.I.S.	204,65	mg/m3	N	8,36	C12H9ClO	L	-8	284-285	0,0027	25	1.2026 @15 C		
451	Chlorophenyl thiourea, 2-	5344-82-1	CKL000	186,67	mg/m3	N	7,63	C7H7ClN2S	S	146	323	0,000002	25		3	Added
452	Chloropicrin/Methyl bromide mixture	z-0014	N.I.S. etc.	105,00	mg/m3	Y	4,29	[Unspecified]	L							OSHA TQ list. 0.15 to 0.85 mixture assumed. Added
453	Chloropicrin/Methyl chloride mixture	z-0015	N.I.S. etc.	85,00	mg/m3	Y	3,47	[Unspecified]	L							OSHA TQ list. 0.30 to 0.70 mixture assumed. Added
454	**Chloropicrin; (Trichloronitromethane)**	76-06-2	CKN500	164,37	ppm	Y	6,72	C.Cl3.NO2	L	-69,4	112,2	20	20	1,692	3	**ERPG-1, -2, -3**
455	Chloroprene; (Neoprene)	126-99-8	NCI500	88,54	ppm	Y	3,62	C4H5Cl	L		59,4			0,958	3	
456	Chloropropionitrile, 3-	542-76-7	CKT250	89,53	ppm	N	3,66	C3H4ClN	L	-51	176	2,5	25	1.1363 @ 25 C	3	T-2 changed.
457	Chloropropylene, 2-	557-98-2	CKS000	76,53	ppm	N	3,13	C3H5Cl	G/L	-138,6	22,65	819	25	0.9017 @ 20 C	3	
458	Chloropropyl-n-octylsulfoxide, 3-	3569-57-1	CKU750	238,85	mg/m3	N	9,76	C11H23ClOS	L		338	0,00002	25		3	Added
459	Chloro-p-toluenesulfonamide, sodium salt, n-; (Chloramine T) (see also SFV550)	127-65-1	CDP000	228,66	mg/m3	N	9,35	C7H8ClNO2S. Na	S powd	167-170					3	T-3 uses 'ip' data T-3 changed.
460	**Chlorosulfonic acid; (Chlorosulfuric acid)**	7790-94-5	CLG500	116,52	mg/m3	Y	4,76	Cl.SO2.OH	L	-80	158	1	32	1,77	3	**ERPG-1, -2, -3**
461	Chlorosulfuran	64902-72-3	CMA700	367,80	mg/m3	N	15,03	C12H12ClN5O4S	S	174-178	192 dec	0,81313	25		2	SAX r LC50 > 5900 mg/m3. Added
462	Chlorotoluene, 2-; (o-Chlorotoluene)	95-49-8	CLK100	126,59	ppm	Y	5,17	CH3C6H4Cl	L	-35,1	159,2			1,0776	3	
463	Chlorotoluene, 4-; (p-Tolyl chloride)	106-43-4	TGY075	126,59	ppm	N	5,17	CH3C6H4Cl	L	7,5	162,4			1,0697	3	
464	**Chlorotrifluoroethylene**	79-38-9	CLQ750	116,47	ppm	N	4,76	Cl.FC=CF2	G	-157,5	-27,9	>760		1,305	3	**ERPG-1, -2, -3**
465	Chlorotrifluoromethane, (CFC-13)	75-72-9	CLR250	104,46	ppm	N	4,27	CClF3	G	-181	-81,4	21400	25		1	T-3 changed
466	Chloroxuron	1982-47-4	CJQ000	290,77	mg/m3	N	11,88	C15H15ClN2O2	S	151-152		3,9E-09	20	1.34 @ 20 C	2	SAX: "3-(p-(p-Chlorophenoxy)phenyl)-1,1-dimethylurea" LC50>1350mg/m3. Added
467	Chlorpyrifos; (dursban)	2921-88-2	CMA100	350,59	mg/m3	N	14,33	C9H11Cl3NO3PS	S	42-43.5					3	T-2 changed.
468	Chlorthiophos	21923-23-9	N.I.S.	361,25	mg/m3	Y	14,76	C11H15Cl2O3PS2	L		150					Added
469	Chromates	13907-45-4	N.I.S.	99,99	mg/m3	N	4,09	CrO3							3	T-3 changed.
470	Chromic acetate; (Chromium[III] acetate)	1066-30-4	CMH000	229,15	mg/m3	N	9,37	Cr.C6H9O6	S						3	T-3 changed.
471	Chromic chloride; (Chromium(III) chloride)	10025-73-7	CMJ250	158,35	mg/m3	N	6,47	Cr.Cl3	S	1152	1300 subl			1,76	3	T-3 changed.
472	Chromic oxide (Chromium(III) oxide, chromium sesquioxide)	1308-38-9	CMJ900	152,00	mg/m3	Y	6,21	Cr2.O3	S	2435	4000			5,21	3	T-1, T-2, T-3 changed.
473	Chromic sulfate; (Chromium(III) sulfate (2:3)	10101-53-8	CMK415	392,18	mg/m3	Y	16,03	O12S3·2Cr	S					3,012	3	T-1, T-2, T-3 changed.
474	Chromic trihydroxide; (Chromic(III) acid)	1308-14-1	CMH260	103,03	mg/m3	Y	4,21	Cr.H3.O3	S						3	T-1, T-2, T-3 changed.
475	Chromic trioxide; (Chromium(VI) oxide (1:3))	1333-82-0	CMK000	100,00	mg/m3	Y	4,09	Cr.O3	S.del	190	dec			2,70	3	T-1, T-3 changed.
476	Chromic(VI) acid	7738-94-5	CMH250	118,02	mg/m3	Y	4,82	Cr.H2.O4	S	196	dec			1.67 - 2.82	3	T-1, T-3 changed.
477	Chromite; (Chromite [mineral])	1308-31-2	CMI500	223,85	mg/m3	N	9,15	Cr2.FeO4	S					4.97 @ 20C	3	T-3 changed.
478	Chromium	7440-47-3	CMI750	52,00	mg/m3	N	2,13	Cr	S	1900	2200	~0	20	7,1	3	
479	Chromium nitrate nonahydrate	7789-02-8	CMJ610	400,21	mg/m3	N	16,36	N3O9.Cr.9H2O	S(?)						2	

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480	Chromium(III) nitrate	13548-38-4	CMJ600	238,03	mg/m3	N	9,73	CrN3O9	S	60	100 dec				3	T-3 changed.
481	Chromium(III) oxide hydroxide; (Chromium oxyhydroxide)	z-0016	N.I.S.	85,00	mg/m3	Y	3,47	CrOOH							3	Added
482	Chromium(VI) hydroxide	z-0017	N.I.S.	154,04	mg/m3	N	6,30	Cr(OH)6	S							No listing found; used Cr(VI) limits **SAR not used. Added**
483	Chromous chloride; (Chromium[II] chloride[1:2])	10049-05-5	CMJ300	122,90	mg/m3	N	5,02	Cr.Cl2	S	824	1300			2.751 @ 14 C	2	T-3 changed.
484	Chrysene (coal tar volatile)	218-01-9	CML810	228,30	mg/m3	N	9,33	C18H12	S	254	448			1,274	3	
485	Cis-1,3-dichloropropene; (Mixture of cis and trans, CASRN 542-75-6)	10061-01-5	DGH200	110,97	ppm	Y	4,54	C3H4Cl2	l		104,3			1,22	3	
486	Citric acid	77-92-9	CMS750	192,14	mg/m3	Y	7,85	C6H8O7						1,665	3	
487	Citric acid monohydrate	5949-29-1	N.I.S.	210,16	mg/m3	N	8,59	C6H8O7	S	153	dec			1.655 @ 20 C		T-3 uses 'ip' data Added
488	Clay absorbent: (Bentonite)	1302-78-9	BAV750		mg/m3	N		[Unspecified]	S						1	T-3 uses 'iv' data T-3 changed.
489	Coal tar pitch volatiles; (Particulate polycyclic aromatic hydrocarbons)	65996-93-2	CMZ100		mg/m3	N		[Unspecified]	L						3	T-2 changed.
490	Coal tar, aerosol	8007-45-2	CMY805		mg/m3	Y		[Unspecified]	S						2	
491	Coal tar; (Coal tar volatiles)	8007-45-3	CMY800		mg/m3	Y		[Unspecified]	L					1.18-1.23	3	Fake CASRN used to distinguish from '45-2'
492	Cobalt	7440-48-4	CNA250	58,93	mg/m3	Y	2,41	Co	S	1495	3100			8,92	3	T-2 changed
493	Cobalt carbonyl	10210-68-1	CNB500	341,94	mg/m3	N	13,98	Co2.C8O8	S	51	52 decom	0,07	15	1,87	3	T-0, T-1, T-2 changed.
494	Cobalt chloride	7646-79-9	CNB599	129,83	mg/m3	N	5,31	CoCl2	S	735	1049			3,348	3	T-2 changed.
495	Cobalt hydroxide	21041-93-0	CNC231	92,95	mg/m3	N	3,80	Co(OH)2	S						2	Added
496	Cobalt nitrate; (Cobalt(II) nitrate)	10141-05-6	CNC500	182,95	mg/m3	N	7,48	CoN2O6	S	55	75 dec			1,87	3	T-2 changed.
497	Cobalt nitrite	z-0018	N.I.S. etc.	150,93	mg/m3	N	6,17	Co(NO2)2	S							Added
498	Cobalt oxide	1308-06-1	CND020	240,79	mg/m3	N	9,84	Co3O4	S	900 dec					2	
499	Cobalt tetraphenylporphine	z-0019	N.I.S.		mg/m3	N		[Unknown]								
500	Cobalt(II) oxide	1307-96-6	CND125	74,93	mg/m3	N	3,06	CoO	S	1935				6,45	3	See also CND020: Co_3O_4, CND825: Co_2O_3 T-2 changed.
501	Cobalt, ((2,2'-(1,2-Ethanediylbis (Nitrilomethylidyne)) Bis(6-Fluorophenolato))(2-)-N,N',O,O')-	62207-76-5	EIS000	361,23	mg/m3	Y	14,76	C16H12CoF2N2O2	S			0,00001	25		3	SAX: "n,n'Ethylene bis(3-fluorosalicylideneiminato)cobalt(II)". Added
502	Cobaltous bromide; (Cobalt[II] bromide)	7789-43-7	CNB250	218,75	mg/m3	N	8,94	Co.Br2	S	678				4.909 @ 25 C	3	
503	Cobaltous carbonate	513-79-1	CNB475	118,94	mg/m3	N	4,86	CO3.Co	S					4,13	2	
504	Colchicine	64-86-8	CNG830	399,48	mg/m3	Y	16,33	C22H25NO6	S	155-157	407	0,00001	25		3	T-3 uses 'iv' data
505	Copper	7440-50-8	CNI000	63,54	mg/m3	N	2,60	Cu	S	1083	2595	~0	20	8,92	2	
506	Copper cyanide	544-92-3	CNL000	89,56	mg/m3	N	3,66	CuCN	S	474	1400 dec			2,92	3	
507	Copper hydroxide	20427-59-2	CNM500	97,56	mg/m3	N	3,99	Cu(OH)2	S ins					3,368	2	Added
508	Copper nitrate; (Cupric nitrate)	3251-23-8	CNM750	187,55	mg/m3	Y	7,67	CuN2O6	S	255-256	>150 subl			2,047	2	T-1, T-2, T-3 changed.
509	Copper oxide	1317-39-1	CNO000	143,08	mg/m3	N	5,85	Cu2O	S	1235	1800 dec			6	2	

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510	Copper sulfate	7758-98-7	CNP250	159,60	mg/m3	Y	6,52	Cu.SO4	S	200				2,284	3	
511	Copper(I) chloride; (Cuprous chloride)	7758-89-6	CNK250	98,99	mg/m3	N	4,05	CuCl	S	430	1490	1	546	3,53	3	T-3 changed.
512	Copper(II) chloride (1:2); (Cupric chloride)	7447-39-4	CNK500	134,44	mg/m3	N	5,49	Cl2Cu	S	498				3,054	3	T-3 uses 'ip' data T-3 changed.
513	Copper(II) sulfate pentahydrate	7758-99-8	CNP500	249,70	mg/m3	N	10,21	CuSO4.5H2O	S	110 lose 4H2O	150 dec			2.286 @ 15.6 C	3	Added
514	Coumaphos	56-72-4	CNU750	362,78	mg/m3	N	14,83	C14H16ClO5PS	S	95		9,7E-08	20	1.47 @ 20 C	3	Added
515	Coumatetralyl; (Endrocide)	5836-29-3	EAT600	292,35	mg/m3	N	11,95	C19H16O3	S	172-176					3	Added
516	Creosote (coal tar)	8001-58-9	CMY825		mg/m3	N		UK	L		200-->				3	T-2 changed.
517	Cresols	1319-77-3	CNW500	108,15	ppm	N	4,42	CH3C6H4OH	L	10.9 to 35.5	191-203	0,421		1.030 to 1.038	3	
518	Crimidine; (Castrix)	535-89-7	CCP500	171,65	mg/m3	N	7,02	C7H10ClN3	S	87	140-147 @ 4mm				3	Added
519	Cristobalite	14464-46-1	SCJ000	60,09	mg/m3	N	2,46	SiO2	S						3	T-2 changed.
520	Crocidolite	12001-28-4	ARM275	765,98	mg/m3	N	31,31	ONa2Fe2O33. FeO8SiO 2H2O	S fibre						3	T-1, T-2, T-3 changed.
521	**Crotonaldehyde**	4170-30-3	COB250	70,09	ppm	Y	2,86	CH3.CH=CHCHO	L	-73,9	103,9	19	20	0,853	3	**ERPG-1, -2, -3**
522	Crotonaldehyde, (E)-	123-73-9	COB260	70,10	ppm	Y	2,87	C4H6O	L	-69	102,2			0,853	3	T-2 changed.
523	Crotonic Acid	3724-65-0	COB500	86,10	mg/m3	Y	3,52	C4H6O2	S	72	185	0,19	20	1.018 @ 15 C	3	
524	Cumene hydroperoxide; (Isopropylbenzene hydroperoxide)	80-15-9	IOB000	152,21	mg/m3	Y	6,22	C9H12O2	L		153			1,05	3	
525	Cumene; (Isopropyl benzene)	98-82-8	COE750	120,21	ppm	Y	4,91	C9H12	L	-96	152	10	38,3	0,864	3	
526	Cumenol methylcarbamate, m-; (Phenol, 3-[1-methylethyl]-, methylcarbamate)	64-00-6	CMM330	193,27	mg/m3	N	7,90	C11H15NO2	S	72-74	143	0,4	25		3	Added
527	Cupferron; (Ammonium-n-nitrosophenylhydroxylamine)	135-20-6	ANO500	156,19	mg/m3	Y	6,38	C6H6N2O2·H4N	S	163-164					3	
528	Cupric acetate, anhydrous; (Copper acetate)	142-71-2	CNI250	181,64	mg/m3	N	7,42	Cu.C4H6O4	S						3	T-1 changed
529	Cupric nitrate hemipentahydrate (as Cu)	19004-19-4	N.I.S.	241,60	mg/m3	N	9,87	Cu(NO3)2.5/2H2O	S	115	170 dec					T-3 changed.
530	Cupric nitrite	14984-71-5	N.I.S.	155,54	mg/m3	N	6,36	Cu(NO2)2	S							Added. CASRN in TSCA, MF = Cu.2 H-N-O2 **SAR**
531	Cupric oxide	1317-38-0	CNO250	79,54	mg/m3	N	3,25	Cu0	S	1326				6,4	3	T-3 changed.
532	Cyanamide	420-04-2	COH500	42,05	mg/m3	N	1,72	C3H5N3O4	S	45	260			1,282	3	
533	Cyanide (and cyanides)	57-12-5	COI500	26,02	mg/m3	Y	1,06	CN	S						3	
534	Cyanoacetamide	107-91-5	COJ250	84,09	mg/m3	N	3,44	C3H4N2O	S	119	dec				3	
535	Cyanogen	460-19-5	COO000	52,04	ppm	Y	2,13	(CN)2	G	-34,4	-21	>760		0.866 @17/4	3	
536	Cyanogen bromide	506-68-3	COO500	105,93	mg/m3	N	4,33	CN.Br	S	52	61,6	122	25	2.015 @ 20 C	3	
537	**Cyanogen chloride**	506-77-4	COO750	61,47	ppm	Y	2,51	CN.Cl	G	-6,5	13,1	1010	20	1,218	3	**ERPG-2, -3.** T-0, T-1 changed
538	Cyanogen iodide	506-78-5	COP000	152,92	mg/m3	N	6,25	CN.I	S	146,5		1	25,2	1,84	3	All Ts changed
539	Cyanophos	2636-26-2	COQ399	243,23	mg/m3	Y	9,94	C9H10NO3PS	L	14-15	119-120			1.255 @ 25 C	3	CN limits not used. Added

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540	Cyanuric fluoride; (2,4,6-Trifluoro-s-triazine)	675-14-9	TKK000	135,06	mg/m3	Y	5,52	(CN)3.F3	L	-38	72,4			1.60 @ 25 C	3	Added
541	Cyclohexane	110-82-7	CPB000	84,18	ppm	N	3,44	C6H12	L	6,5	80,7	100	61	0,7791	3	
542	Cyclohexanol	108-93-0	CPB750	100,16	ppm	Y	4,09	C6H12O	L	24	161,5	1	21	0.9449 @ 25C	3	
543	Cyclohexanone; (Ketohexamethylene)	108-94-1	CPC000	98,16	ppm	Y	4,01	C6H10O	L	-45	155	10	38,7	0,9478	3	
544	Cyclohexen-1-one…, 2- ; (Checkmate)	74051-80-2	CDK800	327,53	mg/m3	N	13,39	C17H29NO3S	S						2	
545	Cyclohexene	110-83-8	CPC579	82,15	ppm	Y	3,36	C6H10	L	-103,7	83	67	20	0,8102	3	
546	Cycloheximide	66-81-9	CPE750	281,39	mg/m3	Y	11,50	C15H23NO4	S	119-121		0,006	25		3	
547	Cyclohexylamine	108-91-8	CPF500	99,20	ppm	Y	4,05	C6H13N	L	-17,7	134,5			0,865	3	T-2 changed
548	Cyclooctatetraene, 1,3,5,7-	629-20-9	CPS500	104,15	ppm	N	4,26	C8.H8	??	-7	142-143	7,9	25	0.921 @ 20	3	asphixiant: could not find LEL
549	Cyclopentane	287-92-3	CPV750	70,15	ppm	N	2,87	C5H10	L	-93,7	49,3	317,8	25	0.7457 @ 20	3	T-2 changed
550	Cyclopropane	75-19-4	CQD750	42,09	ppm	N	1,72	C3H6	G	-126,6	-33,5	5410	25	1.879 @ 0 C	3	Added
551	Cyclotol; (RDX-TNT mixture)	z-0020	N.I.S.	449,30	mg/m3	Y	18,36	C7H5N3O6-C3H6N6O6	S							2,4,6-Trinitrotoluene mixed with Hexahydro-1,3,5-trinitro-1,3,5-triazine. See PBX T-0, T-1, T-2 changed.
552	Cyclotrinitraminemethylene; (RDX or Cyclonite)	121-82-4	CPR800	222,15	mg/m3	Y	9,08	C3H6N6O6	S	202	expl	0,0004	110	1,82	3	CASRN also used for RDX and HMX mixtures
553	DDD (1,1-bis(4-Chlorophenyl)-2,2-dichloroethane)	72-54-8	BIM500	320,04	mg/m3	N	13,08	C14H10Cl4	S	110					3	
554	DDE (2.2-bis(p-Chlorophenyl)-1,1-dichloroethylene)	72-55-9	BIM750	318,02	mg/m3	N	13,00	C14H8Cl4	S						3	
555	DDT (Dichlorodiphenyltrichloroethane)	50-29-3	DAD200	354,48	mg/m3	N	14,49	C14H9Cl5	S	108,5					3	
556	Decaborane	17702-41-9	DAE400	122,24	mg/m3	Y	5,00	B10H14	S	99,6	213	0,05	25	0,94	3	
557	Decahydronaphthalene, cis-; (Decalin)	493-02-7	N.I.S.	138,24	ppm	Y	5,65	C10.H18	L	-43,3	195,6	2,3	25	0.8963 @ 20	3	
558	Decahydronaphthalene, trans-; (Decalin; cis- and trans-)	91-17-8	DAE800	138,28	ppm	Y	5,65	C10.H18	L	-30,7	187,3	10	47,2	0.8963 @ 20	3	
559	Decanal	112-31-2	DAG000 DAG200	156,30	ppm	Y	6,39	C10H20O	L	-5	208,5	0,103	25	0.830 @ 15 C	2	Added
560	Decane	124-18-5	DAG400	142,29	ppm	N	5,82	C10H22	L	-30	174	1	16,5	0,73	2	T-2 uses 'sk' data T-0, T-1, T-2 changed.
561	Decene, 1-, homopolymer, hydrogenated	68037-01-4	N.I.S.		mg/m3	N		UK	L	-65	375-->	<1	20	0,82	1	
562	Demeton	8065-48-3	DAO600	516,72	mg/m3	N	21,12	(C8H19O3PS2)2	L		134 @ 2 mm			1.1183 @ 20 C	3	SAX: "Demeton-o+demeton-s"; MW is 258.34 in some references. Added
563	Demeton-s-methyl	919-86-8	DAP400	230,30	mg/m3	N	9,41	C6H15O3PS2	L		89 @ 0.15mm	0,0003	20	1.21 @ 20 C	3	Added
564	Deuterium oxide; (Heavy water)	7789-20-0	HAK000	20,02	ppm	N	0,82	D2O	L	3,81	101,42			1,1044	D	
565	Dextran	9004-54-0	DBD700	200000,00	mg/m3	N	8174,28	[Unknown]	S						2	T-2 uses 'iv' data Added
566	Di-2-ethylhexyl adipate	103-23-1	AEO000	370,64	mg/m3	Y	15,15	C22H42O4	L		181-5 @ 2 mm	2,6	200	0,9268	2	T-2 uses 'ip' data T-0, T-1 changed.
567	Diacetate-1,1'-oxybis-ethanol; (Diethylene glycol diacetate)	628-68-2	DJD750	190,22	mg/m3	N	7,77	C8H14O5	S	18	200			1,1068	1	
568	Diacetyl peroxide; (Acetyl peroxide)	110-22-5	ACV500	118,04	mg/m3	Y	4,82	CH3CO. OOCO.CH3	S	30	63 @ 21 C			1,18	3	Original list concentration > 70%. Added

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569	Dialifor	10311-84-9	DBI099	393,86	mg/m3	N	16,10	C14H17NO4PS2	S	67-69		6,2E-08	20-25		3	Added
570	Diaminodiphenyl ether, 4,4'-; (4,4'-Oxydianiline)	101-80-4	OPM000	200,26	mg/m3	N	8,18	C12H12N2O	S	187	>300	0,0000003	25		3	
571	Dianisidine dihydrochloride, o-; (3,3'-Dimethoxybenzidine dihydrochloride)	20325-40-0	DOA800	317,24	mg/m3	N	12,97	C14H16N2O2.2ClH	S	137		8,8E-09	25		3	
572	Diazomethane	334-88-3	DCP800	42,05	ppm	N	1,72	CH2N2	G	-145	-23	> 760		1,45	3	T-2 changed.
573	Dibenza(a,h)anthracene	53-70-3	DCT400	278,36	mg/m3	N	11,38	C22H14	S	266-->					3	T-3 uses 'iv' data
574	Dibenzo(a,e)pyrene; (Naphtho(1,2,3,4-def)chrysene)	192-65-4	NAT500	302,38	mg/m3	N	12,36	C24H14	S	225					3	T-2 uses 'sk' data All Ts changed.
575	Dibenzofuran	132-64-9	DDB500	168,20	mg/m3	N	6,87	C12H8O	S	86,5	287	0,0044	25	1.0866 @ 99 C	D	
576	Dibenzo-p-dioxin	262-12-4	DDA800	184,20	mg/m3	N	7,53	C12H8O2	S	119		4,1E-4	25		3	T-2 uses 'sk' data T-0, T-1, T-2 changed.
577	**Diborane**	**19287-45-7**	DDI450	27,68	ppm	Y	1,13	B2H6	G	-165	-92,8	>760		0.477 liq	3	**ERPG-2, -3**
578	Dibromo-3-chloropropane, 1,2-; (DBCP)	96-12-8	DDL800	236,35	ppm	Y	9,66	C3H5Br2Cl	L	6,7	196			2,05	3	
579	Dibromo-4-nitrophenol, 2,6-	99-28-5	DDQ500	296,92	ppm	N	12,14	C6-H3-Br2-N-O3	L						3	T-3 uses 'iv' data Added
580	Dibromochloromethane; (Chlorodibromomethane)	124-48-1	CFK500	208,29	mg/m3	N	8,51	CHBrCl	L	-22	116			2,38	2	
581	Dibromomethane	74-95-3	DDP800	173,85	mg/m3	N	7,11	CH2Br2	L	-52,7	95.6-97.4			2,485	3	
582	Dibromophenol, 2,6-	608-33-3	N.I.S.	251,91	mg/m3	N	10,30	C6-H4-Br2-O								Added. No toxicity data found. **SAR**
583	Dibromopropane, 1,3-	109-64-8	TLR000	201,91	mg/m3	Y	8,25	C3H6Br2	L	-36	166,5			1,977	2	T-3 uses 'ip' data All Ts changed.
584	Dibromotetrafluoroethane; (Halon 2402)	124-73-2	FOO525	259,84	ppm	N	10,62	C2Br2F4	L	-112	47,3			2.18 @ 21.1 C	1	
585	Dibutyl (2-ethylhexyl)phosphate	z-0021	N.I.S. etc.	322,43	ppm	N	13,18	[Unknown]								Added. No toxicity data found. **SAR**
586	Dibutyl butylphosphonate	78-46-6	DDV800	250,36	ppm	Y	10,23	C12H27O3P	L		160-162			0.948 @ 20 C	3	T-3 uses 'iv' data Added
587	Dibutyl peroxide, tert-	110-05-4	BSC750	146,26	ppm	Y	5,98	C8H18O2	L	-40	111	25,1	25	0.791 @ 25 C	3	LC50 > 4100 ppm Added
588	Dibutyl phosphate; (TBP)	107-66-4	DEG700	210,20	ppm	N	8,59	C8H19PO4	L		135-8 @ 0.05mm				2	
589	Dibutyl phosphite	1809-19-4	DEG800	194,24	mg/m3	Y	7,94	C8H19O3P	L		95 @1 mm	1	95	0.9860 @ 25 C	3	
590	Dibutyl phthalate	84-74-2	DEH200	278,38	mg/m3	N	11,38	C6H4(COOC4H9)2	L	-35	340	<0.01		1.047 - 1.048	3	T-2 changed.
591	Dibutylhexamethylenediamine, N,N'-	4835-11-4	DEC699	228,48	mg/m3	N	9,34	C14H32N2	L		205	0,0004	25		3	Added
592	Dichloran; (2,6-Dichloro-4-nitroaniline; Resisan)	99-30-9	RDP300	207,02	mg/m3	N	8,46	C6H4Cl2N2O2	S	191					3	
593	Dichloro(4,4-dimethylzinc -5((((methylamino)carbonyl) oxy)imino)pentanenitrile), (trans-4)-; (Ethienocarb)	58270-08-9	DFE469	333,54	mg/m3	N	13,63	C9H15Cl2N3O2.Zn	S	120-125		0,00001	25		3	Added
594	Dichloro-1-fluoroethane, 1,1-; (HCFC-141b; Freon 141)	1717-00-6	FOO550	116,95	ppm	N	4,78	C2H3Cl2F	G/L	-103,5	32	412	25		1	
595	Dichloro-2-butene 1,4-	764-41-0	DEV000	125,00	ppm	N	5,11	C4H6Cl2	L	1 to 3	156			1,183	3	T-2 changed.
596	Dichloro-2-trifluoromethylbenzimidazole, 4,5-; (Chloroflurazole)	3615-21-2	DGO400	255,03	mg/m3	N	10,42	C8H3Cl2F3N2	S	212-214		0,00004	22,5	3,49	3	Added
597	Dichloroacetylene	7572-29-4	DEN600	94,92	ppm	Y	3,88	C2Cl2	L	-65	33			1,26	3	Added
598	Dichloroamine; (Chlorimide)	3400-09-7	N.I.S.	85,92	ppm	N	3,51	Cl2HN	L					1,2	2	

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599	Dichlorobenzene, m-	541-73-1	DEP599	147,00	ppm	N	6,01	C6H4Cl2	L	-24	172			1,288	2	T-3 uses 'ip' data All Ts changed.
600	Dichlorobenzene, o-	95-50-1	DEP600	147,00	ppm	Y	6,01	C6H4Cl2	L	-17,2	180,6	1	20	1,307	3	
601	Dichlorobenzene, p-	106-46-7	DEP800	147,00	ppm	Y	6,01	C6H4Cl2	S	53,3	173,9	0,4	25	1,4581	3	
602	Dichlorobenzidene 3,3'-	91-94-1	DEQ600	253,14	ppm	Y	10,35	C12H10Cl2N2	S	133					3	
603	Dichlorocyclohexane	2108-92-1	N.I.S. etc.	153,05	ppm	N	6,26	C6H10.Cl2								Added. Used H&N MW and MF **SAR**
604	Dichlorocyclohexane, trans-1,2-	822-86-6	N.I.S.	153,05	mg/m3	N	6,26	C6H10Cl2	L						3	In H&N, used chlorocyclohexane, CASRN 542-18-7
605	Dichlorodifluoromethane; (Freon 12, CFC 12)	75-71-8	DFA600	120,91	ppm	N	4,94	C.Cl2.F2	G	-157,8	-30	>760			1	
606	Dichloroethanol acetate, 1,2-	10140-87-1	DFG159	157,00	ppm	N	6,42	C4H6Cl2O2	L	<-32	79-79.5 @ 33 mm			1.296 @ 20 C	3	Added
607	Dichloroethene, cis-1,2	156-59-2	DFI200	96,94	ppm	Y	3,96	HCCl=CHCl	L	-80,5	59	400	41	1.291 @ 150	1	
608	Dichloroethene, trans-1,2; (trans-Acetylene dichloride)	156-60-5	ACK000	96,94	ppm	Y	3,96	C2H2Cl2	L	-50	48	400		1.2743 @ 30.8	2	
609	Dichloroethyl ether; (Oxybis(2-chloro-ethane), 1-1'-)	111-44-4	DFJ050	143,02	ppm	Y	5,85	C4H8Cl2O	L	-51,9	178,5	0,7	20	1,222	3	T-2 changed
610	Dichloroethylaluminum; (example of Alkylaluminums)	563-43-9	EFU050	126,95	mg/m3	Y	5,19	C2H5AlCl2	S fuming	32	194			1,222	1	Added
611	Dichloroethylbenzene; (Ethyldichlorobenzene)	1331-29-9	EHY500	175,06	mg/m3	N	7,15	C8H8Cl2	L	<70	220-224			1,208	2	
612	Dichloroethylene, 1,2-	540-59-0	DFI210	96,94	ppm	N	3,96	ClCH=CHCl	L	-80	58-60	222		1,282	3	
613	Dichlorofluoromethane; (Freon 21, CFC 21)	75-43-4	DFL000	102,92	ppm	N	4,21	CH.Cl2.F	G	-135	8,9	>760		1,48	1	T-2 changed.
614	Dichlorohexane	2162-92-7	N.I.S. etc.	155,07	ppm	N	6,34	C6-H12-Cl2								Added. CASRN = 2162-92-7 is 1,2-; 2163-00-0 is 1,6-; 13275-18-8 is 2,5- **SAR**
615	Dichloroisopropyl ether	108-60-1	BII250	171,08	ppm	N	6,99	C6H12Cl2O	L	>-20	187,8	0,1	20	1,11	3	
616	Dichloromethoxy ethane; (bis(2-Chloroethoxy) methane)	111-91-1	BID750	173,05	ppm	Y	7,07	C5H10Cl2O2	L	-32,8	217,5	0,1	20	1.2339 @ 20 C	3	
617	**Dichloromethyl ether; (bis[Chloromethyl]ether]**	542-88-1	BIK000	114,96	ppm	Y	4,70	C2H4Cl2O	L	-41,5	105			1,315	3	**ERPG-2, -3.**
618	Dichloromethylphenylsilane	149-74-6	DFQ800	191,14	mg/m3	Y	7,81	C7H8Cl2Si	L		205			1.18 @ 20 C	3	
619	Dichlorophene	97-23-4	MJM500	269,13	mg/m3	Y	11,00	C13H10Cl2O2	S	178					3	
620	Dichlorophenol, 2,4-	120-83-2	DFX800	163,00	mg/m3	Y	6,66	C6H4Cl2O	S	45	210	1	53	1,383	3	
621	Dichlorophenol, 2,6-	87-65-0	DFY000	163,00	mg/m3	Y	6,66	C6H4Cl2O	S?						3	T-3 uses 'ip' data T-1, T-2, T-3 changed.
622	Dichlorophenoxy acetic acid, 2,4-; (2,4- D salts and esters)	94-75-7	DAA800	221,04	mg/m3	Y	9,03	Cl2C6H3OCH2COOH	S	137,8	dec	low	20	7.63vap	3	
623	Dichloropropane	26638-19-7	DGF350	112,99	ppm	Y	4,62	C3H6Cl2	L						D	Used the TEELs for isomers 1,1- and 2,2-
624	Dichloropropane, 1,1-	78-99-9	DGF400	112,99	ppm	Y	4,62	C3H6Cl2	L		88,3	65,9	25	1.1321 @ 20 C	3	
625	Dichloropropane, 1,2-; (Propylene dichloride)	78-87-5	PNJ400	112,99	ppm	Y	4,62	CH3CHClCH2Cl	L	-100,6	96,7	40	20	1,1593	3	
626	Dichloropropane, 1,3-	142-28-9	DGF800	112,99	ppm	Y	4,62	C3H6Cl2	L		120,4			1,20115	2	
627	Dichloropropane, 2,2-	594-20-7	DGF900	112,99	ppm	Y	4,62	C3H6Cl2	L		70,5			1,096	3	Used propylene dichloride
628	Dichloropropene, 1,1-	563-58-6	DGG750	110,97	ppm	N	4,54	C3H4Cl2	L		76,5			1,1864	D	T-1, T-2 changed

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629	Dichloropropene, 1,3-	542-75-6	DGG950	110,97	ppm	Y	4,54	C3H4Cl2	L		103-110			1,22	3	
630	Dichloropropene, 2,3-	78-88-6	DGH400	110,97	ppm	Y	4,54	C3H4Cl2	L		94	53	25	1.211 @ 20 C	3	
631	Dichloropropene, cis-1,2-; (Propylene dichloride; 1,2-dichloro-1-propene, [Z]-)	6923-20-2	DGG800	110,97	ppm	N	4,54	C3H4Cl2	L		93			3.83 vapor	2	
632	Dichloropropene, trans-1,2-; (Propylene dichloride; 1,2-dichloro-1-propene, [E]-)	563-54-2	DGG800	110,97	ppm	N	4,54	C3H4Cl2	L		75			3.83 vapor	2	
633	Dichloropropene, trans-1,3-	10061-02-6	DGH225	110,97	ppm	N	4,54	C3H4Cl2	L		112	2,47	20	1.217 @ 20C	3	Used cis-1,3 isomer (DGH200). Added
634	Dichlorosilane	4109-96-0	DGK300	101,01	ppm	N	4,13	ClH2Si	G	-122	8,3				3	
635	Dichlorotetrafluoroethane; (Freon 114, CFC114)	76-14-2	FOO509	170,92	ppm	N	6,99	CF4.C.Cl2	G	-93,9	3,3	>760		1,5312	1	
636	Dichlorovos; (Dichlorvos)	62-73-7	DGP900	220,98	ppm	N	9,03	C4H7Cl2O4P	L		120 @ 14 mm				3	T-2 changed
637	Dicrotophos	141-66-2	DGQ875	237,22	mg/m3	N	9,70	C8H16NO5P	L		400	0,000086	20	1.216 @ 15 C	3	Added
638	Dicyclohexano-18-crown-6	16069-36-6	DGV100	372,56	mg/m3	Y	15,23	C20H36O6	S wax	38-54	344				3	
639	Dicyclopentadiene	77-73-6	DGW000	132,22	ppm	Y	5,40	C10H12	L	32,9	166,6	10	47,6	0.976 @ 35C	3	
640	Dieldrin	60-57-1	DHB400	380,90	mg/m3	N	15,57	C12H8Cl6O	S	176-177				13.2 vapor	3	
641	Diesel fuel marine; (Diesel fuel No. 4)	z-0022	DHE750		mg/m3	Y		[Unspecified]	L						2	T-2 uses 'sk' data T-0, T-1 changed.
642	Diesel fuel marine; (Fuel oil No.2)	68476-30-2	DHE800		mg/m3	Y		[Unspecified]	L					<1	3	T-2 uses 'sk' data T-0, T-1, T-2 changed.
643	Diesel fuels	68334-30-5	DHE900		mg/m3	Y		[Unspecified]	L						2	
644	Diethanolamine	111-42-2	DHF000	105,16	mg/m3	Y	4,30	C4H11NO2	L	28	270	5	138	1,0919	3	
645	Diethoxydimethylsilane	78-62-6	DHG000	148,31	ppm	Y	6,06	C6H16O2Si	L		114	10	13,3	0,86	3	
646	Diethyl chlorophosphate	814-49-3	DIY000	172,56	mg/m3	Y	7,05	C4H10ClO3P	L/S		88-90 @ 15 mm			1.21 @ 20	3	
647	Diethyl ethylphosphonate	78-38-6	N.I.S.	166,16	mg/m3	N	6,79	C6H15O3P	L		198			1,0259	2	
648	Diethyl mercury	627-44-1	DJO400	258,73	mg/m3	Y	10,57	C4H10Hg	L		159			2,43	3	T-0, T-1, T-2 changed T-3 changed.
649	Diethyl methylphosphonate; (DEMP)	683-08-9	N.I.S.	152,15	mg/m3	N	6,22	C5-H13-O3-P								T-3 uses 'ip' data T-0, T-1, T-2 changed.
650	Diethyl phthalate; (Ethyl phthalate)	84-66-2	DJX000	222,26	mg/m3	Y	9,08	C12H14O4	L	-0,3	302	14	163	1,11	3	
651	Diethyl sulfate	64-67-5	DKB110	154,20	ppm	Y	6,30	C4H19O4S	L	-25	209,5	1	47	1,18	3	T-2 uses 'iv' data T-0, T-1, T-2 changed.
652	Diethylamine	109-89-7	DHJ200	73,16	ppm	Y	2,99	C4H11N	L	-38,9	55,5	400	38	0,711	3	
653	Diethylaminoacetone	1620-14-0	N.I.S. etc.	129,00	ppm	N	5,27	[Unknown]								Added. No toxicity data found. **SAR**
654	Diethylaniline, n,n-	91-66-7	DIS700	149,26	mg/m3	N	6,10	C10H15N	L	-38	215-216			0,9302	2	
655	Diethylbenzene, m-	141-93-5	DIU200	134,24	mg/m3	N	5,49	C10H14	S		181-182				2	
656	Diethylbenzene, o-	135-01-3	DIU300	134,24	mg/m3	N	5,49	C10H14	L	<-20	183,5				1	
657	Diethylene glycol	111-46-6	DJD600	106,14	ppm	Y	4,34	C4H10O3	L	-6,5	244-245	0,07	22	1,1184	2	
658	Diethyleneoxide, 1,4-; (1,4-Dioxane)	123-91-1	DVQ000	88,11	ppm	Y	3,60	(CH2)4O2	L	11,7	101,1	29	20	1,0353	3	

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659	Diethylenetriamine	111-40-0	DJG600	103,20	ppm	Y	4,22	HN(C2H4 NH2)2	L	-39	207	0,22	20	0,9586	3	
660	Diethylenetriaminepentaacetic acid	67-43-6	DJG800	393,40	mg/m3	N	16,08	C14H23N3O10							2	T-3 uses 'ip' data T-3 changed.
661	Diethylstilbestrol; (Phenol,4,4¢-(1,2-diethyl-1,2-ethenediyl) bis-,(E))	56-53-1	DKA600	268,38	mg/m3	N	10,97	C18H20O2	S	171-172					3	T-3 uses 'ip' data T-3 changed.
662	Diethylthiourea, n,n'-	105-55-5	DKC400	132,25	mg/m3	N	5,41	C5H12N2S	S	77					3	
663	Diethylurea, 1,3-	623-76-7	N.I.S.	116,19	ppm	N	4,75	C5-H12-N2-O	S	112,5	263			1.0415 @ 25 C		T-3 uses 'ip' data Added
664	Diethylzinc	557-20-0	DKE600	123,51	ppm	Y	5,05	(C2H5)2.Zn	L	-28	118	20,8	25	1.187 @ 18 C	3	Limits and LC50 based on SAX Safety Profile Added
665	Difluoroethane; (1,1-Difluoroethane)	75-37-6	ELN500	66,06	ppm	N	2,70	C2H4F2	L	-117	-26,5	4550	25	1.004 @ 25 C	3	
666	Digitoxin	71-63-6	DKL800	765,05	mg/m3	Y	31,27	C41H64O13	S	256-257					3	Added
667	Diglycidyl Ether	2238-07-5	DKM200	130,16	ppm	Y	5,32	C6H10O3	L		260	0,09	25	1.126 @ 25 C	3	Added
668	Diglycol monoethyl ether acetate; (Carbitol acetate)	112-15-2	CEQ750	176,24	mg/m3	Y	7,20	C8H16O4	L	-25	217,4	0,05	20	1,0114	2	
669	Digoxin	20830-75-5	DKN400	781,05	mg/m3	N	31,92	C41H64O14	S	265 dec					3	Added
670	Dihexyl-N,N-diethylcarbamoyl Methyl Phosphonate	7369-66-6	N.I.S.etc.	363,48	mg/m3	Y	14,86	C18H38NO4P	S			0,3	168	0,98	2	MSDS
671	Dihydro 2(3H)furanone; (4-Butanolide)	96-48-0	BOV000	86,10	mg/m3	N	3,52	C4H6O2	L	-44	203-204			1.41 @ 0 C	2	Added
672	Dihydro-4-methyl furan, 2,3-	34314-83-5	(MKH000)	84,12	mg/m3	Y	3,44	C5H8O	L						3	Based on methylfuran
673	Dihydrogen hexachloroplatinum (IV); (Chloroplatanic acid)	16941-12-1	CKO750	409,81	mg/m3	Y	16,75	H2PtCl6.6H2O	S	60				2,431	3	T-1, T-2, T-3 changed.
674	Dihydroxyanthraquinone, 1,8-	117-10-2	DMH400	240,22	mg/m3	Y	9,82	C14H8O4	S	193					2	T-3 uses 'ip' data T-2, T-3 changed.
675	Diisobutylamine	110-96-3	DNH400	129,28	ppm	N	5,28	C8H10N	L	-70	139	7,27	25	0.745 @ 20 C	3	
676	Diisopropyl methylphosphonate	1445-75-6	DNQ875	180,21	mg/m3	N	7,37	C7H17O3P	L		663 mm				2	
677	Diisopropyl peroxydicabonate	105-64-6	DNR400	206,22	mg/m3	Y	8,43	C8H14O6	S	36016	17,2			1.080 @ 15 C	3	Added
678	Diisopropylamine	108-18-9	DNM200	101,22	ppm	Y	4,14	C6H15N	L		83-84			0.722 @ 220	3	
679	Diisopropylamino ethylchloride hydrogen chloride	4261-68-1	N.I.S.	200,18	mg/m3	Y	8,18	C8H18ClN. ClH	S							
680	Di-isopropylaminoethanol, 2-; (N,N-Diisopropylehanolamine)	96-80-0	DNP000	145,28	mg/m3	Y	5,94	C8H19NO							2	
681	Diisopropylfluorophosphate; (Phosphorofluoridic acid,bis(1-methylethyl) ester)	55-91-4	IRF000	184,17	mg/m3	N	7,53	C6H14FO3P	S	-82	185	0,58	25	1,07	3	
682	Diisopropylnaphthalene; (Bis(isopropyl)naphthalene)	38640-62-9	BKL600	212,36	mg/m3	N	8,68	C16H20	S						2	
683	**Diketene; (Ketene dimer)**	674-82-8	KFA000	84,08	ppm	Y	3,44	CH2=CC.H2.C(O)O	L	-6,5	127,4	10	24,3	1,0897	3	**ERPG-1, -2, -3**
684	Dilauroyl peroxide	105-74-8	LBR000	398,70	mg/m3	Y	16,30	C24H46O4	S	49	62 dec			0.91 @ 25 C	3	T-2 uses 'sk' data Added
685	Dimefox; (bis(Dimethylamido)fluoro phosphate)); (Phosphorodithioate)	115-26-4	BJE750	154,15	mg/m3	N	6,30	C4H12FN2OP	L		67 @ 4 mm	0,11	20	1.115 @ 20 C	3	Added
686	Dimethanonaphthalene1,4,5,8-; (Aldrin)	309-00-2	AFK250	364,90	mg/m3	N	14,91	C12H8Cl6	S	104-5					3	
687	Dimethoate	60-51-5	DSP400	229,27	mg/m3	N	9,37	C3H12NO3PS2	S	51-52	107 @ 0.05 mm	1.1 mPa	25	1.277 @ 65 C	3	Added
688	Dimethoxybenzidene 3,3'-; (o-Dianisidine)	119-90-4	DCJ200	244,32	mg/m3	N	9,99	C14H16N2O3	S	137-8					3	

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Table 1: Revision 19 of Chemicals for which TEELs have been derived. with some physicochemical data

No.	Chemical Compound	CAS Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity concentration dependent	ppm to mg/m^3 conversion factor	Molecular formula	State at 25oC	MP (FP) oC	BP °C	Vapor Pressure mm Hg	Vapor Pressure T (°C)	SG	HR	Comments
689	Dimethoxybutane, 1,3-	10143-66-5	DOB200	118,20	ppm	Y	4,83	C6H14O2	L						2	
690	Dimethoxybutane, 2,2-	3453-99-4	N.I.S.	118,18	ppm	Y	4,83	C.C.(CH3O)2.C.C	L						2	Based on 1,3-dimethoxybutane
691	Dimethoxyethane	110-71-4	DOE600	90,14	ppm	N	3,68	C4H10O2	L	-58	82-83			0,86877	3	
692	Dimethyglyoxime; (Diacetyl dioxime)	95-45-4	DBH000	116,14	mg/m3	N	4,75	C4H3N2O2	S	238-240					3	
693	Dimethyl acetiminde, n,n-	127-19-5	DOO800	87,14	ppm	Y	3,56	C4H9NO	L	-20	165	1,3	25	0.943 @ 20 C	2	Added
694	Dimethyl butane, 2,2-	75-83-2	DQT200	86,20	ppm	Y	3,52	C6H14	L	-98,2	49,7	400	31	0,649	3	
695	Dimethyl carbamoyl chloride	79-44-7	DQY950	107,55	ppm	N	4,40	C3H6ClNO	L	-33	165-167			1,678	3	
696	**Dimethyl disulfide**	624-92-0	DRQ400	94,20	ppm	N	3,85	(CH3)2S2	L		109,7	28,6	25	1,057	3	**ERPG-1, -2, -3**
697	Dimethyl hydrogen phosphite	868-85-9	DSG600	110,06	mg/m3	Y	4,50	C2-H5-03-P	L		56.5 @ 8mm			1,2	3	
698	Dimethyl mercury	593-74-8	DSM450	230,67	mg/m3	Y	9,43	C2H6Hg	L		92			3,1874	3	
699	Dimethyl methylphosphonate; (DMMP)	756-79-6	DSR400	124,09	mg/m3	N	5,07	C3H9O3P	L		66-68 @10mm				2	
700	Dimethyl phosphorochloridothioate	2524-03-0	DTQ600	160,56	mg/m3	N	6,56	C2H6ClO2PS	L		68 @ 12 mm	4	40	1,326	3	Added
701	Dimethyl siloxane; (Syltherm; Silicone 360)	63148-62-9	DUB600 SCR400		mg/m3	N		[Unspecified]	Lvisc						2 D	
702	Dimethyl sulfate	77-78-1	DUD100	126,14	ppm	Y	5,16	(CH3)2SO4	L	-31,8	188			1,332	3	
703	**Dimethyl sulfide; (2-Thiopropane)**	75-18-3	TFP000	62,14	ppm	Y	2,54	(CH3)2S	L	-83,2	37.5-38	400	19	0,8458	3	**ERPG-1, -2, -3**
704	Dimethyl sulfoxide; (DMSO)	67-68-5	DUD800	78,14	mg/m3	Y	3,19	(CH3)2SO	L	18,5	189			1,1	2	T-2 uses 'iv' data T-0, T-1 changed.
705	Dimethyl(1-phenylethyl)benzene, 1-	40766-31-2	N.I.S.		mg/m3	N		C16-H18	L						3	
706	Dimethyl--2-pentene, (E)-3,4-	4914-92-5	N.I.S. etc.	98,17	ppm	N	4,01	C7H14	L	-124,2	91,5			0,7124	3	
707	**Dimethylamine**	124-40-3	DOQ800	45,10	ppm	Y	1,84	(CH3)2.NH	G	-92,2	6,7	>760		0.680 gas	3	**ERPG-2, -3; ignored ERPG-1**
708	Dimethylaminoazobenzene, 4-	60-11-7	DOT300	225,32	mg/m3	N	9,21	C14H15N3	S	115					3	T-2 uses 'ip' data T-0, T-1 changed.
709	Dimethylamino-benzaldehyde, p-	100-10-7	DOT400	149,21	mg/m3	N	6,10	C9H11NO	S	74	176-177 @17mm				2	T-2 uses 'ip' data T-3 uses 'ip' data All Ts changed.
710	Dimethylaniline, N,N-	121-69-7	DQF800	121,20	ppm	Y	4,95	C8H11N	L	2,5	193,1	0,7	25	0.9557 @20C	3	
711	Dimethylbenzidene 3,3'-; (o-Tolidine)	119-93-7	TGJ750	212,32	mg/m3	Y	8,68	C14H16N2	S	129-131					2	T-3 uses 'ip' data All Ts changed.
712	Dimethylcyclohexane, cis-1,4-	624-29-3	N.I.S.	112,22	ppm	N	4,59	C6H10(CH3)2	L	-87,4	124,4			0,7829	3	In H&N, based on cyclohexane
713	Dimethyldecane, 2,2-	17302-37-3	N.I.S. etc.	170,34	ppm	Y	6,96	C12H26								NIOSH limits for Alkanes used. Added
714	**Dimethyldichlorosilane**	75-78-5	DFE259	129,06	ppm	Y	5,27	C2H6Cl2Si	L	-86	70	139	25	1,06	3	**ERPG-1, -2,-3**
715	Dimethylethyl hydroperoxide, 1,1-; (tert-Butylhydroperoxide)	75-91-2	BRM250	90,14	ppm	Y	3,68	CH3COOH	L	-8	89dec	3,07	20	0,86	2	
716	**Dimethylformamide**	68-12-2	DSB000	73,11	ppm	Y	2,99	HCON.(CH3)2	L	-61,1	152,8	4	25	0,945	3	**ERPG-1, -2, -3**
717	Dimethylheptane, 2,2-	1071-26-7	N.I.S. etc.	128,26	ppm	Y	5,24	C9H20	L	-113	132,7			0.7105 @ 20 C		In HC&P; NIOSH limits for Alkanes used. Added
718	Dimethylhexane, 3,3-	563-16-6	N.I.S. etc.	114,23	ppm	Y	4,67	C8H18	L	-126,1	111,9			0.7100 @ 20 C		In HC&P; NIOSH limits for Alkanes used. Added

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No.	Chemical Compound	CAS Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity concentration dependent	ppm to mg/m^3 conversion factor	Molecular formula	State at 25oC	MP (FP) oC	BP °C	Vapor Pressure mm Hg	Vapor Pressure T (°C)	SG	HR	Comments
719	Dimethylhydrazine, 1,1-	57-14-7	DSF400	60,12	ppm	N	2,46	(CH3)2.NN.H2	L	-57,8	63,9	157	25	0,782	3	
720	Dimethylhydrazine, 1,2-	540-73-8	DSF600	60,12	ppm	N	2,46	C2H8N2	L	-9	81			0,8274	3	T-2 uses 'ip' data T-0, T-1, T-2 changed.
721	Dimethylnonane, 2,6-	17302-23-7	N.I.S.	156,31	ppm	Y	6,39	C11.H24	L							Based on nonane-butane ratio
722	Dimethyloctane, 3,5-	15869-93-9	N.I.S.	142,28	ppm	N	5,82	C10.H22	L		159,4			0,7328		Based on octane-butane ratio. T-3 changed
723	Dimethylphenol, 2,4-; (2,4-Xylenol)	105-67-9	XKJ500	122,18	mg/m3	N	4,99	C8H10O	L	26	210,8	0,102	25	0.9650 @ 20 C	3	T-2 uses 'sk' data T-0, T-1, T-2 changed.
724	Dimethylphenol, 2,6-; (2,6-Xylenol)	576-26-1	XLA000	122,18	mg/m3	Y	4,99	C8H10O	S	48-49	203	0,274	25		3	
725	Dimethylphthalate	131-11-3	DTR200	194,20	mg/m3	N	7,94	C6H4(COOCH3)2	L	5,6	283,9	0,01	20	1,189	2	
726	Dimethyl-p-phenylenediamine, N,N-	99-98-9	DTL600	136,22	mg/m3	N	5,57	C8H12N2	S/L	41	262	0,0001	25	1.036 @ 20 C	3	
727	Dimethylpropane, 2,2-; (Neopentane)	463-82-1	NCH000	72,17	ppm	Y	2,95	C5H12	G/L	-16,6	9,5	1290	25	0.613 @ 0 C	3	T-0, T-1, T-2 changed
728	Dimethylpyridine, 2,4-; (2,4-Lutidine)	108-47-4	LIY990	107,17	ppm	Y	4,38	C7H9N	L	-6,1	145,7	5,65	25	0.9226 @ 25 C	3	Added
729	Dimetilan	644-64-4	DQZ000	240,30	mg/m3	N	9,82	C10H16N4O3	S	68-71	200-210 @13mm	0,000097	20		3	Added
730	Di-n-butylamine	111-92-2	DDT800	129,28	ppm	Y	5,28	(C4H9)2NH	L	-61,9	159,6	2		0,7613	3	
731	Dinitraniline; (Hansa orange RN)	3468-63-1	DVB800	338,30	mg/m3	N	13,83	C16H10N4O5							D	
732	Dinitroaniline, 2,4-	97-02-9	DUP600	183,14	mg/m3	Y	7,49	C6H5N3O4	S	188	[56.7]	5,94E-07	25	1,615	3	Added
733	Dinitrobenzene, m-	99-65-0	DUQ200	168,12	mg/m3	N	6,87	C6H4N2O4	S	89	291			1,546	3	
734	Dinitrobenzene, o-	528-29-0	DUQ400	168,12	mg/m3	N	6,87	C6H4N2O4	S	118	319			1.571 @ 0 C	3	
735	Dinitrobenzene, p-; (Piperidine, 1-nitroso-)	100-25-4	DUQ600	168,12	mg/m3	N	6,87	C6H4N2O4	S	173	299	<1	20	1.625 @ 18 C	3	
736	Dinitro-o-cresol, 4,6- and salts	534-52-1	DUS700	198,15	mg/m3	Y	8,10	C7H6N2O5	S	85,8					3	
737	Dinitrophenol	25550-58-7	DUY600	184,12	mg/m3	Y	7,53	C6H4N2O5	S						3	
738	Dinitrophenol 2,4-	51-28-5	DUZ000	184,12	mg/m3	Y	7,53	C6H4N2O5	S	112				1,683	3	See also CASRN 25550-58-7
739	Dinitrophenol, 2,3-	66-56-8	DUY900	184,12	mg/m3	Y	7,53	C6H4N2O5	S	144				1,681	3	T-3 uses 'ip' data All Ts changed.
740	Dinitrophenol, 2,6-	573-56-8	DVA200	184,12	mg/m3	Y	7,53	C6H4N2O5	S	63					3	T-3 uses 'ip' data All Ts changed.
741	Dinitrosopiperazine; (Piperazine, 1,4-dinitroso-)	140-79-4	DVF200	144,16	mg/m3	N	5,89	C4-H8-N4-O2	S	158					3	Added
742	Dinitrotoluene	25321-14-6	DVG600	182,15	mg/m3	N	7,44	C6H3CH3(NO2)2	S	70	300	1	20		3	T-2 changed.
743	Dinitrotoluene 2,4-	121-14-2	DVH000	182,15	mg/m3	N	7,44	C7H6N2O4	S	69,5	300			1,521	3	T-2 changed.
744	Dinitrotoluene 2,6-	606-20-2	DVH400	182,15	mg/m3	N	7,44	C7H6N2O4	S?						3	
745	Dinitrotoluene, 3,4-	610-39-9	DVH600	182,15	mg/m3	Y	7,44	C7H6N2O4	S	61				1.2594 @ 111 c	3	. Limits are for mixed isomers
746	Dinoseb; (2-sec-Butyl-4,6-dinitrophenol)	88-85-7	BRE500	240,24	mg/m3	N	9,82	C10H12N2O5	S						3	
747	Dinoterb; (2-[1,1-Dimethylethyl]-4,6-dinitrophenol)	1420-07-1	DRV200	240,24	mg/m3	N	9,82	C10H12N2O5	S	125.5-126.5					3	Used RTECS LD50 < SAX LD50. Added
748	Dioctyl phthalate, n-;	117-84-0	DVL600	390,62	mg/m3	Y	15,97	C24H38O4	S						2	T-2 uses 'ip' data T-0, T-1, T-2 changed.

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749	Dioctyl sodium sulfosuccinate; (Di-[2-ethylhexyl] sodium sulfosuccinate)	577-11-7	DJL000	445,63	mg/m3	Y	18,21	C20H38O7S.Na	S	155	dec			1.1 @ 20C	3	
750	Dioxathion	78-34-2	DVQ709	456,56	mg/m3	N	18,66	C12H26O6P2S4	L	-20	60-68 @ 0.5 mm			1.257 @ 26 C	3	Added
751	Dioxine; (TCDD; 2,3,6,7-tetrachlorodibenzo-p-dioxin)	1746-01-6	TAI000	321,96	mg/m3	Y	13,16	C12H4Cl4O2	S	305					3	T-2 uses 'sk' data T-0, T-1 changed.
752	Dioxolane, 1,3-	646-06-0	DVR800	74,09	ppm	Y	3,03	C3H6O2	L	-95	78			1,066	2	T-1, T-2 changed
753	Dipentyl pentylphosphonate	6418-56-0	N.I.S.	292,45	mg/m3	N	11,95	C15-H33-O3-P	S							
754	Diphacinone; (Diphenadione)	82-66-6	DVV600	340,39	mg/m3	N	13,91	C23H16O3	S	147		13.7 nPa	25	1.281 @ 25 C	3	Added
755	Diphenyl mercury (aryl compound)	587-85-9	DWD800	354,81	mg/m3	Y	14,50	C12H10Hg	S	122 subl				2,318	3	
756	Diphenyl; (Biphenyl)	92-52-4	BGE000	154,22	mg/m3	N	6,30	(C6H5)2	S	68,9	253,9	0,158		0,991	3	
757	Diphenylamine	122-39-4	DVX800	169,24	mg/m3	N	6,92	C12H11N	S	52,9	302	1	108	1,16	3	T-2 changed.
758	Diphenylguanidine, 1,3-	102-06-7	DWC600	211,29	mg/m3	N	8,64	C13H13N3	S	150	170 dec			1,115	3	
759	Diphenylhydrazine, 1,2,3-	122-66-7	HHG000	184,26	mg/m3	N	7,53	C12H12N2	S	131	dec			1,58	3	
760	Diphenylnitrosamine	86-30-6	DWI000	198,24	mg/m3	Y	8,10	C12H10N2O	S	66,5				1,23	3	
761	Diphenyloxazole, 2,5-	92-71-7	DWI200	221,27	mg/m3	N	9,04	C15H11NO	S	74					2	T-3 uses 'ip' data T-3 changed.
762	Dipotassium cadmium oxide (X)	z-0023	N.I.S. etc.	222,61	mg/m3	N	9,10	K2CdO2	S							Added
763	Dipotassium dihydrogen silicate	z-0024	N.I.S. etc.	172,28	mg/m3	N	7,04	K2-H2-SiO2	S							MW = 140.30 for MF = K2H2SiO2. Added
764	Dipotassium metasilicate	10006-28-7	N.I.S.	154,26	mg/m3	N	6,30	K2SiO3	S							Added. TSCA listed, no toxicity data; **SAR**
765	Dipotassium zirconium oxide (X)	z-0025	N.I.S. etc.	217,42	mg/m3	Y	8,89	K2ZrO3	S							Added
766	Dipropyl ketone; (4-Heptanone)	123-19-3	DWT600	114,21	ppm	Y	4,67	C7H14O	L	-32,6	144	5,2	20	0,815	3	Added
767	Dipropylamine	142-84-7	DWR000	101,22	mg/m3	N	4,14	C6H15N	L	-63	110			0,741	3	
768	Dipropylene glycol methyl ether	34590-94-8	DWT200	148,23	ppm	Y	6,06	C7H16O3	L		190			0,951	2	
769	Di-sec-octylphthalate	117-81-7	DVL700	390,62	mg/m3	N	15,97	C22H38O4	L	-46	231 @ 5 mm			0,986	3	
770	Disodium (2-ethylhexyl)phosphate	z-0026	N.I.S. etc.	155,00	mg/m3	N	6,34	[Unknown]								Added. No toxicity data found. **SAR**
771	Disodium butylphosphate	12786-93-1	N.I.S. etc.	200,00	mg/m3	N	8,17	[Unknown]								Added. No toxicity data found. **SAR**
772	Disodium butylphosphonate	3321-64-0	N.I.S. etc.	184,00	mg/m3	N	7,52	C6-H11-O3-P								Added. CASRN in H&N is for 1-Butanephosphonic acid, MW = 138.10 **SAR**
773	Disodium cadmium oxide (X)	z-0027	N.I.S. etc.	190,39	mg/m3	N	7,78	Na2CdO2	S							Added.
774	Disodium dihydrogen silicate	z-0028	N.I.S. etc.	140,08	mg/m3	N	5,73	[Unknown]	S							Added
775	Disodium ethylenediaminediacetate (S and U isomers)	38011-25-5	N.I.S.	220,10	mg/m3	N	9,00	C6-H12-N2-O4.2Na	S							Added. RTECS, TSCA & H&N have different names for this CASRN. RTECS MW = 222.18 **SAR**
776	Disodium iminodiacetate (IDA)	928-72-3	N.I.S.	177,08	ppm	N	7,24	C4-H5-N-O4.2Na	S							TSCA has MF with H7 rather than H5. Added
777	Disodium zirconium oxide (X)	z-0029	ZQAooo	185,20	mg/m3	Y	7,57	Na2ZrO3	S							Added
778	Disodium-3,6-endoxohexahydrophthalate	129-67-9	DXD000	230,14	mg/m3	N	9,41	C8H8O5.2Na	S	144				1,431	3	

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779	Disulfiram	97-77-8	DXH250	296,56	mg/m3	Y	12,12	C10H20N2S4	S	70	117			1,3	3	
780	Disulfoton	298-04-4	DXH325	274,42	mg/m3	N	11,22	C8H19O2PS3	S	>-25	132-133 @ 1.5 mm	0,000054	20	1.144 @ 20 C	3	Added
781	Dithiazanine iodide; (3,3'-Diethylpentamethinethiacyanne iodide)	514-73-8	DJT800	519,51	mg/m3	N	21,23	C23H24N2S2.I	S	248		0,00001	25		3	
782	Dithiobiuret	541-53-7	DXL800	135,22	mg/m3	N	5,53	C2H5N3S2	S	181	dec			1.522 @ 30 C	3	Added
783	Divinylbenzene, m-; (m-Vinylstyrene)	108-57-6	DXQ745	130,20	ppm	Y	5,32	C10H10	L	-87	195-200	1	32,7	0,918	2	
784	Divynylbenzene, mixed isomers; (Vinylstyrene)	1321-74-0	DXQ740	130,20	ppm	Y	5,32	C10H10	L	-87	195-200			0,918	1	
785	Dodecamethylcyclohexasiloxane	540-97-6	N.I.S.	445,02	mg/m3	N	18,19	C12-H36-O6-Si6	S							Added. r os LD50 > 50 g/kg in RTECS **SAR**
786	Dodecane	112-40-3	DXT200	170,38	ppm	N	6,96	C12H26	L	-12	214,5			0,749	2	T-2 uses 'sk' data T-0, T-1, T-2 changed.
787	Dodecyl alcohol	112-53-8	DXV600	186,38	mg/m3	Y	7,62	C12H26O	S	24	145-148	259		0.830-6	2	T-2 uses 'sk' data T-0, T-1, T-2 changed.
788	Dodecylbenzene sulfonic acid; (Laurylbenzenesulfonic acid)	27176-87-0	LBU100	326,54	mg/m3	N	13,35	C18H30O3S							2	
789	DOWEX-50-X8 resin	69011-20-7	N.I.S.		mg/m3	N		[Unspecified]	S							
790	Dysprosium nickelide (as Dy)	12175-27-8	(DYG400)	221,19	mg/m3	N	9,04	Dy.Ni	S						3	
791	Dysprosium nitrate	10143-38-1	DYH100	348,60	mg/m3	N	14,25	Dy(NO3)3	S	88,6					3	
792	Dysprosium oxide	1308-87-8	N.I.S.	373,00	mg/m3	N	15,25	Dy2-O3	S	2408				7,1		Added. Rat oral LD50 > 5 g/kg
793	Ecolite	z-0030	N.I.S.		mg/m3	N		[Unspecified]								
794	Emetine dihydrochloride, 1-	316-42-7	EAN000	553,63	mg/m3	Y	22,63	C29H40N2O4. 2ClH	S	255		0,00001	25		3	T-0, T-1, T-2 changed.
795	Endosulfan	115-29-7	EAQ750	406,91	mg/m3	N	16,63	C9H6Cl6O3S	S	106-212				1,745	3	
796	Endothion	2778-04-3	EAS000	280,25	mg/m3	N	11,45	C9H13O6PS	S	96					3	Added
797	Endrin	72-20-8	EAT500	380,90	mg/m3	N	15,57	C12H8Cl6O	S	200	dec	<<1	20		3	
798	Epibatadine (nicotine-like)	z-0031	zz BNL input		mg/m3	N		[Unknown]	L (?)							T-2 uses 'ip' data T-3 uses 'ip' data All Ts changed.
799	**Epichlorohydrin**	106-89-8	EAZ500	92,53	ppm	Y	3,78	C3.H5.O.Cl	L	-47,8	116,7	13	20	1,1761	3	**ERPG-1, -2, -3**
800	Epinephrine; (Vasotonin; 1,2-Benzenediol, 4-[1-hydroxy-2-(methylamino) ethyl]-)	51-43-4	VGP000	183,23	mg/m3	N	7,49	C9H13NO3	S	216					3	T-3 uses 'sk' data
801	EPN; (0-Ethyl-0-[4-nitrophenyl] phenyl-thiophosphorate)	2104-64-5	EBD700	323,32	mg/m3	N	13,21	C14H14NO4PS	L/S	36	215 @ 5mm	0.126 mPa	25	1.268 @ 25C	3	Added
802	Epoxy resin; (Epichlorhydrin + diethylene glycol)	25928-94-3	ECK500		mg/m3	N		[Unspecified]	S						3	
803	Epoxy resin (EPON 1001)	25068-38-6	EBG000		mg/m3	Y		(C15H16O2·C3H5ClO)x	S						2	
804	Epoxy resin (EPON 1007)	25068-38-7	EBG500		mg/m3	Y		(C15H16O2·C3H5ClO)x	S						2	Fake CASRN used to distinguish from 25068-38-6
805	Epoxy resin (EPON 820)	25068-38-8	EBF500		mg/m3	N		(C15H16O2.C3H5ClO)x	S						2	Fake CASRN used to distinguish from 25068-38-6
806	Epoxy resin ERL-2795	25068-38-9	ECL000		mg/m3	N		(C15H16O2·C3H5ClO)x	S						2	Fake CASRN used to distinguish from 25068-38-6
807	Epoxy resin, cured	30583-72-3	ECL500		mg/m3	N		(C15H28O2.C3H5ClO)x	S						D	
808	Epoxybutane, 1,2- ; (1,2-Butylene oxide)	106-88-7	BOX750	72,12	ppm	Y	2,95	C4H8O	L		63			0,8312	3	

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Table 1: Revision 19 of Chemicals for which TEELs have been derived. with some physicochemical data

No.	Chemical Compound	CAS Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity concentration dependent	ppm to mg/m^3 conversion factor	Molecular formula	State at 25oC	MP (FP) oC	BP °C	Vapor Pressure mm Hg	Vapor Pressure T (°C)	SG	HR	Comments
809	Erbium nitrate pentahydrate	10031-51-3	N.I.S. etc.	443,35	mg/m3	N	18,12	Er-(NO3)3.5H2O	S							
810	Erbium oxide	12061-16-4	N.I.S.	382,52	mg/m3	Y	15,63	Er2-O3	S	2416				8,64		Added. Rat oral LD50 > 5 g/kg
811	Erbium(III) nitrate	10168-80-6	ECY500	353,29	mg/m3	N	14,44	N3O9.Er	S						3	T-3 uses 'iv' data All Ts changed.
812	Erbium(III) nitrate hexahydrate	13476-05-6	ECZ000	461,41	mg/m3	N	18,86	N3O9.Er.6H2O	S	130 lose water					3	
813	Ergocalciferol; (Vitamin D2)	50-14-6	VSZ100	396,72	mg/m3	N	16,21	C28H44O	S	115-118					3	Added; wmn TDlo differs in SAX and RTECS
814	Ergotamine tartrate	379-79-3	EDC500	1313,56	mg/m3	N	53,69	C66H70N10O10. C4H6O6	S	203 dec					3	T-3 uses 'iv' data Added
815	Ethane	74-84-0	EDZ000	30,08	ppm	N	1,23	C2H6	G	-172	-88,6	760	BP	0.446 as liq	3	Asphixiant, all Ts changed to LEL=3%
816	Ethanediyl)bis-benzene, 1,1'- (1,2-; (Bibenzyl)	103-29-7	BFX500	182,28	mg/m3	N	7,45	C14H14	S	52	284			1,00	3	
817	Ethanethiol; (Ethyl mercaptan)	75-08-1	EMB100	62,14	ppm	Y	2,54	C2H6S	L	-121	36,1			0,8391	3	T-1 changed
818	Ethanolamine	141-43-5	EEC600	61,10	ppm	Y	2,50	NH2.CH2.CH2.OH	L>10.6	10,6	170,6	0,4	20	1,012	3	
819	Ethidium bromide; (2,7-Diamino-10-ethyl-9-phenylphenanthridinium bromide)	1239-45-8	DBV400	394,35	mg/m3	N	16,12	C21H20N3-Br	S	238-240					3	
820	Ethion	563-12-2	EEH600	384,49	mg/m3	N	15,71	C9H22O4P2S4	L	-13	165 @ 0.3mm			1.31 @ 20 C	3	Added
821	Ethoxyethanol, 2-	110-80-5	EES350	90,14	ppm	N	3,68	C2H5OCH2CH2OH	L	-90	135,1	3,8	20	3,1	3	T-2 changed.
822	Ethoxyethoxy-)ethanol, 2-(2-; (Carbitol cellosolve; Glycol ether DE)	111-90-0	CBR000	134,20	ppm	Y	5,48	C6H14O3	L		201,9			0,986	2	
823	Ethoxyethylacetate, 2-	111-15-9	EES400	132,18	ppm	Y	5,40	C6H12O3	L	-61	156,4	1,2	20	0,9748	3	
824	Ethoxylated alcohols, C7-C21	68991-48-0	N.I.S. etc.		mg/m3	Y		[Unspecified]								
825	Ethoxylated p-nonylphenol; (Nonyl phenyl polyethylene glycol ether)	9016-45-9	NND500		mg/m3	Y		(C2H4O)n. C15H24O (n=5-15)	L						2	
826	Ethyl (or dimethyl) pyrrolidine	z-0032	N.I.S. etc.	99,00	mg/m3	N	4,05	[Unspecified]								Added. No toxicity data found. **SAR**
827	Ethyl acetate	141-78-6	EFR000	88,12	ppm	Y	3,60	CH3COOC2 H5	L	-83,6	77,2	100	27	0,8946	3	
828	**Ethyl acrylate**	140-88-5	EFT000	100,13	ppm	Y	4,09	C5H8O2	L	-71,2	99,8	29,3	20	0.916-9	3	**ERPG-2, -3; ignored ERPG-1**
829	Ethyl alcohol; (ethanol)	64-17-5	EFU000	46,08	ppm	N	1,88	C2H5OH	L	<-130	78,3	43	20	0,7893	3	
830	Ethyl amyl ketone; (3-Octanone)	106-68-3	ODI000	128,24	ppm	Y	5,24	C8H16O	L		157-162	2	20	0.822 @ 20C	3	T-3 uses 'ip' data CASRN = 541-85-5 in OEV Guide, SAX, RTECS, etc. IDLH used. Added
831	Ethyl benzene	100-41-4	EGP500	106,18	ppm	Y	4,34	C8H10	L	-94,9	136,2	10	26	0,8669	3	
832	Ethyl butyl ketone; (3-Heptanone)	106-35-4	EHA600	114,21	ppm	Y	4,67	C7H14O	L	-36,7	149-152			0.8198 @ 20C	3	IDLH used. Added
833	Ethyl chloride	75-00-3	EHH000	64,52	ppm	Y	2,64	C2H5Cl	G	-138,9	12,2	>760	20	0,917	3	
834	Ethyl chloroformate	541-41-3	EHK500	108,53	ppm	Y	4,44	C3H5ClO2	L/S	-80,6	94			1.1442 @ 15 C	3	
835	Ethyl dimethylamidocyanophosphate; (Tabun; GA)	77-81-6	EIF000	162,15	mg/m3	N	6,63	C5H11N2O2P	L	-49,4	238 dec	0,07	25	1,073	3	
836	Ethyl ether	60-29-7	EJU000	74,14	ppm	Y	3,03	C4H10O	L	-116,2	34,6	442	20	0,7135	3	
837	Ethyl hexanoic acid, 2-; (Butyl ethyl acetic acid)	149-57-5	BRI250	144,24	mg/m3	Y	5,90	C8H16O2	L		225-228				2	
838	Ethyl mercury chloride; (Chloroethyl mercury)	107-27-7	CHC500	265,11	mg/m3	Y	10,84	C2H5ClHg	S	196-198					3	T-3 changed.

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No.	Chemical Compound	CAS Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity concentration dependent	ppm to mg/m^3 conversion factor	Molecular formula	State at 25oC	MP (FP) oC	BP °C	Vapor Pressure mm Hg	Vapor Pressure T (°C)	SG	HR	Comments
839	Ethyl methacrylate, (2-Methyl-2-propenoic acid, ethyl ester)	97-63-2	EMF000	114,16	ppm	Y	4,67	C6H10O2	L	<-75	119	20,59	20	0.911 @ 25 C	3	T-2 uses 'ip' data T-0, T-1, T-2 changed.
840	Ethyl nitrite	109-95-5	ENN000	75,08	ppm	N	3,07	C2H5NO3	L	-50	17			0.900 @ 15.5 C	3	Name chaged from "nitrate" to "nitrite". Added
841	Ethyl-1-hexanol, 2-	104-76-7	EKQ000	130,26	mg/m3	Y	5,32	C8H18O	L	<76	184-185	0,2	20	0,834	2	
842	Ethyl-2-methyl heptane, 3-	14676-29-0	N.I.S.	142,28	ppm	N	5,82	CC-(CH3).C-(C2H5).C.C.C.C	L		163			0,7398		In HC&P, LC50 estimated.
843	Ethyl-2-methyloctane, 6-	z-0033	N.I.S. etc.	156,31	ppm	N	6,39	C11H24	L							Undecane toxicity data used (C11 Alkanes) Added
844	Ethyl-5-methylheptane, 3-	52896-90-9	N.I.S. etc.	142,28	ppm	N	5,82	C10H22	L		158,2			0.7368 @ 25 C		P-Chem data ex HC&P Added
845	Ethylamine; (Monoethylamine; Ethylamine anhydrous)	75-04-7	EFU400	45,10	ppm	Y	1,84	C2H7N	L	-80,6	16,6	400	20	0.662 @ 20 C	3	
846	Ethyl-benzaldehyde	22927-13-5	N.I.S.	134,18	ppm	Y	5,48	C9H100	S		83 @ 1 mmHg			0,979		LC50 estimated. TSCA & MSDS give CASRN = 4748-78-1; TSCA also has 53951-50-1
847	Ethylbis(2-chloroethyl)amine; (Bis(2-chloroethyl)ethylamine)	538-07-8	BID250	170,10	mg/m3	N	6,95	C6H13Cl2N	L	-34	194 dec	0,25	25	1.09 @ 25 C	3	Added
848	Ethylene	74-85-1	EIO000	28,06	ppm	N	1,15	C2H4	G	-169,4	-103,9			0,61	3	
849	Ethylene chlorohydrin	107-07-3	EIU800	80,52	ppm	Y	3,29	C2H5ClO	L	-69	128,8	10	30,3	1.197 @20/4	3	T-2 changed
850	Ethylene dibromide	106-93-4	EIY500	187,88	ppm	Y	7,68	BrCH2CH2Br	L	10	131,1	12	20	2,178	3	T-1 changed
851	**Ethylene dichloride; (1,2-Dichloroethane)**	107-06-2	EIY600	98,96	ppm	Y	4,04	ClCH2CH2Cl	L	-35,6	83,3	64	20	1,257	3	**ERPG-1, -2, -3**
852	Ethylene fluorohydrin; (2-Fluoroethanol)	371-62-0	FIE000	64,07	ppm	N	2,62	C2H5FO	L	-26,45	103,5	21,25	25	1.1040 @ 20 C	3	Added
853	Ethylene glycol	107-21-1	EJC500	62,08	ppm	Y	2,54	CH2.OH.CH2.OH	L	-22,2	197,2	0,05	20	1,113	3	T-0 changed.
854	Ethylene glycol monomethyl ether; (Methyl Cellosolve(R))	109-86-4	EJH500	76,11	ppm	Y	3,11	C3H8O2	L	-86,5	124,5	6,2	20	0,966	3	
855	Ethylene glycol monopropyl ether; (Propyl cellosolve, Ektasolve EP)	2807-30-9	PNG750	104,17	ppm	Y	4,26	C5H12O2	L		150 @ 743			0,914	3	
856	Ethylene glycol mono-sec-butyl ether	7795-91-7	EJJ000	118,20	mg/m3	N	4,83	C6H14O2	S (?)						2	
857	**Ethylene oxide; (Oxirane)**	75-21-8	EJN500	44,06	ppm	Y	1,80	CH2.O.CH2	G	-112,8	10,6	>760		0,8711	3	**ERPG-2, -3** T-1 changed
858	Ethylenediamine, 1,2-	107-15-3	EEA500	60,12	ppm	Y	2,46	C2H8N2	L	8,5	117,2	10,7	20	0,8994	3	
859	Ethylenediaminetetraacetic acid, disodium salt	139-33-3	EIX500	336,24	mg/m3	N	13,74	C10H14N2O8. 2Na	S						3	
860	Ethylenediaminetetraacetic acid; (Tetrasodium EDTA)	64-02-8	EIV000	380,20	mg/m3	Y	15,54	C10H16N2O8	S	220	240 dec				3	T-3 uses 'ip' data All Ts changed.
861	Ethylenediaminetetraacetic acid; (Tetrasodium EDTA)	60-00-4	EIX000	292,28	mg/m3	N	11,95	C10H16N2O8	S	220	dec				3	T-3 uses 'ip' data T-2, T-3 changed.
862	Ethyleneimine	151-56-4	EJM900	43,08	ppm	Y	1,76	(CH2)2NH	L	-71,7	56,1	160	20	0,832	3	T-2 changed
863	Ethylenethiourea; (2-Imidazolidinethione)	96-45-7	IAQ000	102,17	mg/m3	Y	4,18	C3H6N2S	S						3	
864	Ethylheptane, 4-	2216-32-2	N.I.S.	128,26	ppm	N	5,24	C9.H20	L		141,2			0,7241		In H&N, LD 50 estimated
865	Ethylidene chloride, 1,1-; (1,1-Dichloroethane)	75-34-3	DFF809	98,96	ppm	N	4,04	CHCl2CH3	L	-97,2	57,2	182	20	1,174	3	T-2 changed.
866	Ethyl-s-dimethylaminoethyl methylphosphonothiolate; (VX nerve agent)	50782-69-9	EIG000	267,41	mg/m3	N	10,93	C11H26 NO2PS	L?						3	T-3 changed.
867	Ethylthiocyanate	542-90-5	EPP000	87,15	mg/m3	N	3,56	C3H5NS	L	-85,5	145	4	25	1.020 @ 16 C	3	T-3 uses 'ip' data Added
868	Ethyltoluene, o-	611-14-3	EPS500	120,21	mg/m3	N	4,91	C9H12	L		164,1			0,88	3	T-2 uses 'ip' data T-0, T-1, T-2 changed.

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869	Ethyltoluene, p-	622-96-8	EPT000	120,21	mg/m3	N	4,91	C9H12	L	-62,4	162,2				1	
870	Europium	7440-53-1	N.I.S.	151,96	mg/m3	N	6,21	Eu	S	826	1489			5,24	3	In TSCA only
871	Europium nitrate; (Europium trinitrate)	10138-01-9	ERC550	421,98	mg/m3	N	17,25	Eu(NO3)3	S						3	
872	Europium oxide	1308-96-9	N.I.S.	351,93	mg/m3	N	14,38	Eu2-O3	S	2350				7,42		Added. Rat oral LD50 > 5 g/kg
873	Fenamiphos	22224-92-6	FAK000	303,39	mg/m3	N	12,40	C13H22NO3PS	S	49,2	450	0,000001	25	1.15 @ 20 C	3	Added
874	Fensulfothion	115-90-2	FAQ800	308,37	mg/m3	N	12,60	C11H17O4PS2	L		440	0,00005	25	1.202 @ 20 C	3	Added
875	Ferric ammonium citrate	1185-57-5	FAS700	709,44	mg/m3	N	29,00	C6H8O7.xFe.xH4N	S					1.8 @ 20 C	1	T-2 changed.
876	Ferric ammonium sulfate	z-0034	N.I.S.		mg/m3	N		xFe-xNH4-SO4	S							
877	Ferric chloride	7705-08-0	FAU000	162,20	mg/m3	N	6,63	Cl3Fe	S hygr	303	315	1	194	2,9	3	T-2 uses 'ip' data T-1, T-2 changed.
878	Ferric chloride hexahydrate	10025-77-1	FAW000	270,32	mg/m3	Y	11,05	Cl3Fe-6H2O	S	37					3	T-3 uses 'ip' data T-2, T-3 changed.
879	Ferric fluoride	7783-50-8	FAX000	112,85	mg/m3	Y	4,61	Fe.F3	S	1000				3,52	3	All Ts changed.
880	Ferric hydroxide	1309-33-7	N.I.S.	106,87	mg/m3	N	4,37	Fe(OH)3	S	500	dec			3,65		T-0, T-1, T-2 changed.
881	Ferric nitrate; (Iron salts, soluble)	10421-48-4	FAY200	241,88	mg/m3	N	9,89	Fe(NO3)3. 9H2O	S	47,2	125 dec			1,684	2	
882	Ferric nitrate; (Iron(III) nitrate nonahydrate (1:3:9))	7782-61-8	IHC000	404,06	mg/m3	Y	16,51	N3O9.Fe.9H2O	S deliq	47,2	decomp			1.68 @ 21 C	2	T-1, T-2 changed.
883	Ferric phosphate	10045-86-0	N.I.S.	153,84	mg/m3	N	6,29	Fe-H3-O4-P	S					2,87	3	All Ts changed
884	Ferric sulfate; (Iron(III) sulfate)	10028-22-5	FBA000	399,88	mg/m3	N	16,34	Fe2(SO4)3	S	480 dec				3,097	D	T-3 uses 'ip' data T-0, T-1, T-3 changed.
885	Ferrous ammonium sulfate	10045-89-3	N.I.S.	284,07	mg/m3	N	11,61	Fe(SO4)(NH4) 2SO4.6H2O	S	100-110				1,865		
886	Ferrous chloride	7758-94-3	FBI000	126,75	mg/m3	N	5,18	Cl2Fe	Shygr	676	1012	10	700	3,16	3	
887	Ferrous hydroxide	18624-44-7	N.I.S.	89,86	mg/m3	N	3,67	Fe(OH)2	S	140 dec				3,4		T-0, T-1, T-2 changed.
888	Ferrous sulfamate	14017-39-1	N.I.S.	250,02	mg/m3	N	10,22	Fe.2 H3-N-O3-S	S							
889	Ferrous sulfate	7720-78-7	FBN100	151,91	mg/m3	N	6,21	FeSO4.	Shygr					1,89	3	
890	Ferrous sulfate heptahydrate	7782-63-0	FBO000	278,05	mg/m3	N	11,36	FeSO4.7H2O	S	64				2.99 - 3.08	3	
891	Ferrous sulfide; (Iron sulfide)	12068-85-8	IGV000	119,97	mg/m3	N	4,90	FeS2								
892	Fiber glass	z-0035	FBQ000		mg/m3	N		BxSiyOz	S						2	
893	Fluenetil	4301-50-2	FDB200	258,31	mg/m3	N	10,56	C16H15FO2	S			0,0000025	25		3	Added
894	Fluoranthene	206-44-0	FDF000	202,26	mg/m3	N	8,27	C16H10	S	110	250-251	0,01	20		3	T-2 uses 'sk' data T-0, T-1, T-2 changed.
895	Fluorene, 9H-	86-73-7	FDI100	166,23	mg/m3	N	6,79	C13H10	S	116	295 dec				1	T-3 uses 'ip' data T-0, T-1, T-2 changed.
896	Fluorides (as F)	16984-48-8	FEX875	19,00	mg/m3	Y	0,78	[Unspecified]	S						3	
897	**Fluorine**	7782-41-4	FEZ000	38,00	ppm	Y	1,55	F2	G	-219,4	-188,3	>760	20	1.695 vap	3	**ERPG-1, -2, -3**
898	Fluoro-4-nitrophenol, 2-	21571-34-6	N.I.S. etc.	157,00	mg/m3	N	6,42	[Unknown]								Added. No toxicity data found. **SAR**

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899	Fluoro-6-nitrophenol, 2-	1526-17-6	N.I.S. etc.	157,00	mg/m3	N	6,42	[Unknown]								Added. No toxicity data found. **SAR**
900	Fluoroacetamide	640-19-7	FFF000	77,07	mg/m3	N	3,15	C2H4FNO	S	107-109	250	0,001	25		3	Added
901	Fluoroacetic acid,sodium salt; (Sodium fluoroacetate)	62-74-8	SHG500	100,03	mg/m3	Y	4,09	C2H2FO2.Na	S	200					3	
902	Fluoroacetic acid; (Fluoroethanoic acid)	144-49-0	FIC000	78,05	mg/m3	N	3,19	C2H3FO2	S	35,3	167-168	1,9	25	1.393 @36 C	3	Added
903	Fluoroacetyl chloride	359-06-8	FFR000	96,49	mg/m3	N	3,94	C2H2ClFO	L		73	80	25		3	Added
904	Fluoronitrophenol, 2-	z-0036	N.I.S. etc.	157,00	mg/m3	N	6,42	[Unknown]								Added. No toxicity data found. **SAR**
905	Fluorotrimethylsilane	420-56-4	N.I.S.	92,00	ppm	Y	3,76	(CH3)3SiF	L						3	In TSCA , H&N; based on silicon fluoride
906	Fluorouracil	51-21-8	FMM000	130,09	mg/m3	Y	5,32	C4H3FN2O2	S	282-283	361	0,00001	25		3	
907	Fonofos	944-22-9	FMU045	246,34	mg/m3	N	10,07	C10H15OPS2	L		380	0,00021	25	1.16 @ 25 C	3	Added
908	**Formaldehyde**	50-00-0	FMV000	30,03	ppm	Y	1,23	HCHO	G	-118?	-19	>760	20	1,083	3	**ERPG-1, -2, -3**
909	Formaldehyde cyanohydrin; (Hydroxyacetonitrile; Glycolonitrile)	107-16-4	HIM500	57,06	ppm	Y	2,33	C2H3NO	L	<-72	183	1,8	25	1,1	3	Added
910	Formamide	75-12-7	FMY000	45,05	ppm	Y	1,84	CH3NO	L	2,5	70,5	29,7	129,4	1,134	3	T-2 uses 'sk' data T-1 changed.
911	Formetanate hydrochloride	23422-53-9	DSO200	257,75	mg/m3	N	10,53	C11H15N3O2.ClH	S	102	440	0,0000001	25		3	Added
912	Formic acid	64-18-6	FNA000	46,03	ppm	Y	1,88	HCOOH	L	8,3	100,8	35	20	1,22	3	
913	Formic acid, 2-propenyl ester; (Allyl formate)	1838-59-1	AGH000	86,10	mg/m3	N	3,52	C4-H6-O2	L		83			0.948 @ 18 C	3	Added.
914	Formic acid, butyl ester; (n-Butyl formate)	592-84-7	BRK000	102,15	ppm	N	4,18	C5-H10-O2	L	-90	106	40	31,6	0,911	3	Added
915	Formothion	2540-82-1	DRR200	257,28	mg/m3	N	10,52	C6H12NO4PS2	L	25-26	250	0,0000085	25	1.361 @ 20 C	3	Added
916	Formparanate	17702-57-7	FNE500	235,32	mg/m3	N	9,62	C12H17N3O2	S		385	0,0000025	25		3	Added
917	Fosthietan	21548-32-3	DHH200	241,28	mg/m3	N	9,86	C6H12NO3PS2	L		250	0,0000065	25	1.3 @ 25 C	3	Added
918	Fuberidazole	3878-19-1	FQK000	184,21	mg/m3	N	7,53	C11H8N2O	S	286		0,00001	25		3	Added
919	Fuel oil	68476-33-5	FOP050		mg/m3	N		[Unspecified]	L						3	
920	Fumaric acid	110-17-8	FOU000	116,08	mg/m3	Y	4,74	C4H4O4	S	300-302	290	0,000154	25	1.635 @ 20C	3	
921	Furan	110-00-9	FPK000	68,08	ppm	N	2,78	C4H4O	L	-86,7	31,4			0,964	3	T-1, T-2 changed.
922	**Furancarboxyaldehyde, 2-; (Furfural)**	98-01-1	FPQ875	96,09	ppm	Y	3,93	OCH=CHCH=CCOH	L		162 @ 764mm			1.154-1.158	3	**ERPG-1, -2, -3**
923	Furancarboxylic acid, ethyl ester, 2-; (Ethyl furoate)	614-99-3	EKM000	140,15	ppm	Y	5,73	C7-H8-O3	S	34	195					T-3 uses 'iv' data Added
924	Furfuryl alcohol	98-00-0	FPU000	98,11	ppm	Y	4,01	C5H6O2	L	-31	171	1	31,8	1,129	3	
925	Fusariotoxin T2; (T2-Trichothecene)	21259-20-1	FQS000	466,58	mg/m3	Y	19,07	C24H34O9	S	151-152					2	
926	Gadolinium hydroxide	16469-18-4	N.I.S.	208,27	mg/m3	N	8,51	Gd(OH)3	S							Added. TSCA CASRN. No toxicity data found **SAR**
927	Gadolinium nitrate, solid	10168-81-7	GAL000	343,28	mg/m3	N	14,03	Gd-(NO3)3	S						3	
928	Gadolinium nitrite	z-0037	N.I.S. etc.	295,25	mg/m3	N	12,07	Gd(NO2)3	S							Added. No toxicity data found. **SAR**

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929	Gadolinium(III) oxide	12064-62-9	GAP000	362,50	mg/m3	Y	14,82	Gd2O3	S hygr	2339	3900			7.407 @ 15C	1	r LD50 > 5000 mg/m3, TClo inserted. Added
930	Gallium	7440-55-3	GBG000	69,72	mg/m3	N	2,85	Ga	S	29,78	2403			5,904	3	
931	Gallium oxide	12024-21-4	GBS050	187,44	mg/m3	N	7,66	Ga2O3	S	1900				5,88	1	
932	Gallium trichloride	13450-90-3	GBM000	176,07	mg/m3	N	7,20	GaCl3	S/L	78	201,3			2.47 @ 26 C	3	
933	Gallium trifluoride	7783-51-9	N.I.S.	126,72	mg/m3	N	5,18	GaF3	S						3	
934	Gasoline	8006-61-9	GBY000	72,00	ppm	Y	2,94	[Unspecified]	L		39 to 204			<1	3	
935	Germane; (Germanium tetrahydride)	7782-65-2	GEI100	76,63	ppm	N	3,13	GeH4	G	-165	-90			1.523 @ -142 C	3	Added
936	Germanium oxide	1310-53-8	GEC000	104,59	mg/m3	N	4,27	GeO2	S	1115 sol				4,703	3	
937	Germanous acid	z-0038	GEA000	122,60	mg/m3	N	5,01	Ge-H2-O3	S							Added. Germanium compounds, LD50 is minimum of range
938	Glass frit	z-0039	FBQ000		mg/m3	N		Borosilicate	S						2	
939	Gluteraldehyde	111-30-8	GFQ000	100,13	ppm	Y	4,09	C5H8O2	L		71-72				3	T-2 changed
940	Glycerine (mist); (Glycerol, glycerin)	56-81-5	GGA000	92,11	mg/m3	Y	3,76	HOCH2CH (OH)CH2CH	L	17,9	290	0,0025	50	1,26	3	
941	Glyceryl monostearate; (Octadecanoic acid with 1,2,3-propanetriol)	31566-31-1	OAV000	358,63	mg/m3	N	14,66	C21H42O4	S	58-59				0,97	3	T-3 uses 'ip' data T-3 changed.
942	Glycidaldehyde	765-34-4	GGW000	72,07	ppm	Y	2,95	C3H4O2	L		113			1,1403	3	
943	Glycolic acid	79-14-1	GHO000	79,06	mg/m3	Y	3,23	C2H4O3	S	63(alpha) 79(beta)	100 dec	8,1	80	1,49	2	
944	Glycols, polyethylene, mono(p-nonylphenyl) ether; (Nonoxynol-9)	26027-38-3	NNB300		mg/m3	N		(C2H4O)n.C15H24O	L (n<15)					1,06	3	T-3 uses 'ip' data T-3 changed.
945	Goethite; (Iron hydroxide oxide)	1310-14-1	N.I.S.	88,85	mg/m3	N	3,63	FeOOH	S					4,26		Added. CASRN = 20344-49-4 in HC&P, no toxicity data. **SAR**
946	Gold	7440-57-5	GIS000	196,97	mg/m3	N	8,05	Au	S	1064,76	2700	1	1869	19,3	1	T-3 uses 'iv' data T-2, T-3 changed.
947	Graphite; (Carbon, CASRN 7440-44-0)	7782-42-5	CBT500	12,01	mg/m3	N	0,49	C	S	3652-3657	subl	1	3586	2,25	1	
948	Guanidine, N-methyl-N'-nitro-N-nitroso-	70-25-7	MMP000	147,12	mg/m3	N	6,01	C2H5N5O3	S	118					3	T-2 uses 'ip' data T-0, T-1, T-2 changed.
949	Hafnium	7440-58-6	HAC000	178,49	mg/m3	N	7,30	Hf	S	2503	4450			13,31	3	
950	Hafnium oxide	12055-23-1	N.I.S.	210,49	mg/m3	N	8,60	HfO2	S	2812	5400			9,68		T-3 changed.
951	Halon 1211; (Bromochlorodifluoromethane)	353-59-3	BNA250	165,37	ppm	N	6,76	CBrClF2	G	-160,5	-4	>760	20		1	
952	Halon 1301; (1,1,2-Trifluoro-1-bromo-2-chloroethane)	354-06-3	TJY100	197,39	ppm	N	8,07	CbBrF3	G	-168	-57,8	>760	20		1	
953	Hansa yellow	13515-40-7	N.I.S.	390,61	mg/m3	N	15,96	C17-H15-Cl-N4-O5								HSDB has MW = 339.86, but MF ex TSCA
954	Helium	7440-59-7	HAM500	4,00	ppm	N	0,16	He	G	-272,2	-268,9			0.147 @-270.8	1	
955	Hematoxylin	517-28-2	HAP500	302,30	mg/m3	N	12,36	C16H14O6	S	100-120					2	
956	HeptaCDD, 1,2,3,4,6,7,8-	35822-46-9	HAR100	425,28	mg/m3	N	17,38	C12.H.Cl7.O2	S						3	
957	HeptaCDF, 1,2,3,4,6,7,8-	67562-39-4	N.I.S.	409,28	mg/m3	N	16,73	C12.H.Cl7.O	S						3	
958	HeptaCDF, 1,2,3,4,7,8,9-	55673-89-7	N.I.S.	409,28	mg/m3	N	16,73	C12.H.Cl7.O	S						3	

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959	Heptachlor	76-44-8	HAR000	373,30	mg/m3	N	15,26	C10H5Cl7	S	96				1.57-1.59	3	
960	Heptachlor epoxide; (Epoxyheptachlor)	1024-57-3	EBW500	389,30	mg/m3	N	15,91	C10H5Cl7O	S						3	
961	Heptadecane	629-78-7	HAS100	240,53	ppm	N	9,83	C17-H36	L						1	T-3 uses 'iv' data Added
962	Heptafluorotetrahydro-5-[nonafluorobutyl]-furan, 2,2,3,3,4,4,5-; (Fluorinert FC-75)	335-36-4	N.I.S.	416,06	mg/m3	N	17,00	C8-F16-O	S		31-173				3	
963	Heptane	142-82-5	HBC500	100,23	ppm	Y	4,10	C7H16O3	L	-91,61	98,52	40	22,3	0,684	3	
964	Heptanol, 1-; (Heptyl alcohol)	111-70-6	HBL500	116,23	mg/m3	N	4,75	C7-H16-O	L	-34,6	175,8	0,2163	25	0.824 @ 20 C	2	TClo data inserted. Added
965	Hexacarbonylchromium; (Chromium hexacarbonyl)	13007-92-6	HCB000	220,06	mg/m3	Y	8,99	Cr.(CO)6	S	152-155					3	Added
966	HexaCDD, 1,2,3,4,7,8-	39227-28-6	HAJ500	390,84	mg/m3	Y	15,97	C12.H2.Cl6.O2	S	239					3	
967	HexaCDD, 1,2,3,7,8,9-	19408-74-3	HCF120	390,84	mg/m3	N	15,97	C12.H2.Cl6.O2	S						3	
968	HexaCDF, 1,2,3,7,8,9-	72918-21-9	N.I.S.	374,84	mg/m3	N	15,32	C12.H2.Cl6.O	S						3	
969	Hexachlorobenzene	118-74-1	HCC500	284,76	mg/m3	N	11,64	C6Cl6	S	231	323-6	1	114	2,44	3	T-2 changed.
970	**Hexachlorobutadiene**	87-68-3	HCD250	260,74	ppm	Y	10,66	Cl2C=CClCCl=CCl2	L	-21	211-215	22	100	1,682	3	**ERPG-1, -2, -3**
971	Hexachlorocyclohexane, alpha-; (alpha-Benzene hexachloride)	319-84-6	BBQ000	290,82	mg/m3	N	11,89	C6H6Cl6	S	158		0,0317	20	1,87	3	T-1, T-2 changed
972	Hexachlorocylopentadiene	77-47-4	HCE500	272,75	ppm	Y	11,15	C5Cl6	L	9,9	239			1,7	3	T-1, T-2, T-3 changed
973	Hexachlorodibenzofuran, 1,2,3,4,7,8-	70648-26-9	HCH400	374,84	mg/m3	N	15,32	C12H2Cl6O2	S (?)						D	
974	Hexachlorodibenzofuran, 1,2,3,6,7,8-	57117-44-9	HCH425	378,84	mg/m3	N	15,48	C12H2Cl6O2	S (?)						2	
975	Hexachlorodibenzofuran, 2,3,4,6,7,8-	60851-34-5	HCH450	374,84	mg/m3	N	15,32	C12H2Cl6O2	S (?)						3	
976	Hexachlorodibenzo-p-dioxin, 1,2,3,4,7,8-	57653-85-7	HCF000	390,84	mg/m3	N	15,97	C12H2Cl6O2	S (?)						3	
977	Hexachloroethane	67-72-1	HCl000	236,72	ppm	N	9,68	Cl3CCCl3	S	187 subl	subl	0,2	20	2,091	3	
978	Hexachloronaphthalene	1335-87-1	HCK500	334,82	mg/m3	N	13,68	C10H2Cl6	S						3	
979	Hexachlorophene	70-30-4	HCL000	406,89	mg/m3	Y	16,63	C13H6Cl6O2	S	165					3	
980	Hexachloropropene	1888-71-7	HCM000	248,73	ppm	Y	10,17	C3Cl6	L	-72,9	209-210	0,244	25	1.76 @ 20C	3	
981	Hexadecane	544-76-3	HCO600	226,50	mg/m3	Y	9,26	C16H34	L	18,14	286,5	1	105,3	0,77335	2	T-3 uses 'iv' data T-0 changed.
982	Hexadecanoic acid; (Palmitic acid)	57-10-3	PAE250	256,48	mg/m3	Y	10,48	C17H32O2	S	63-64	271.5@100			0,849	3	T-3 uses 'iv' data T-3 changed.
983	Hexadecanol, 1-	36653-82-4	HCP000	242,50	mg/m3	Y	9,91	C16H34O	S	50	178-182			0.8176 @ 50/4	3	
984	Hexadecene, 1-	629-73-2	N.I.S.	224,48	ppm	Y	9,17	C16-H32	L	4,1	284,4			0.7811 @ 20C		LD and LC greater than values given. Added
985	**Hexafluoroacetone**	684-16-2	HCZ000	166,03	ppm	Y	6,79	CF3COCF3	G	122	-27	>760		1,65	3	**ERPG-2, -3**
986	**Hexafluoropropylene; (Hexafluoropropene)**	116-15-4	HDF000	150,03	ppm	N	6,13	C3F6	G	-156	-29	>760		1.583 @ -40 C	3	**ERPG-1, -2, -3**
987	Hexamethylcyclotrisiloxane	541-05-9	N.I.S.	222,46	mg/m3	Y	9,09	(CH3)6Si3O3	S	64,5	134			1,12	3	Based on other silanes
988	Hexamethyldisilazane	999-97-3	HED500	161,44	mg/m3	N	6,60	C6H19NSi2	L		125			0,76	2	T-2 uses 'ip' data T-0, T-1, T-2 changed.

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989	Hexamethyldisiloxane	107-46-0	HEE000	162,42	ppm	Y	6,64	C6H18OSi	L	-59	101			0.76 @ 20C	1	T-3 uses 'ip' data Added
990	Hexamethylene diisocyanate polymer	28182-81-2	HEG300		mg/m3	Y		(C8H12N2O2)x	S						1	
991	Hexamethylene diisocyanate; (1,6-Diisocyanatohexane)	822-06-0	DNJ800	168,22	ppm	N	6,88	C8H12N2O2	L		121-122			1,053	3	
992	Hexamethylenetetraamine hydrochloride	58713-21-6	N.I.S. etc.		mg/m3	N		[Unknown]								
993	Hexamethylenetetraamine; (Methenamine)	100-97-0	HEI500	140,22	mg/m3	N	5,73	C6H12N4	S					1.33 @ -5 C	3	T-3 uses 'iv' data
994	Hexamethylphosphoramide	680-31-9	HEK000	179,24	ppm	N	7,33	C6H18N3OP	L	7	233			1,024	3	
995	Hexanal	66-25-1	HEM000	100,18	ppm	Y	4,09	C6-H12-O	L	-56,3	131	11,3	25	0.8335 @ 20 C	3	TDlo data inserted. Added
996	Hexane	110-54-3	HEN000	86,20	ppm	Y	3,52	CH3(CH2)4CH3	L	-93,6	68,7	100	15,8	0,655	3	
997	Hexanenitrile	628-73-9	HER500	97,18	ppm	Y	3,97	C8-H11-N	L		163,6				3	Added
998	Hexanoic acid	142-62-1	HEU000	116,18	mg/m3	Y	4,75	C6H12O2	L	-1,5	205	0,18	20	0,9295	2	
999	Hexanol, n-; (n-Hexyl alcohol)	111-27-3	HFJ500	102,20	ppm	Y	4,18	C6H14O	L	-46,7	157,2	1	24,4	0,8204	3	
1000	Hexanone, 2-; (Methyl n-butyl ketone)	591-78-6	HEV000	100,18	ppm	Y	4,09	C6H12O	L	-56,9	127,2	10	38,8	0,83	3	
1001	Hexanone, 3-; (Ethyl propyl ketone)	589-38-8	HEV500	100,18	ppm	Y	4,09	C6-H12-O	L		124			0.813 @ 21.8	3	Added
1002	Hexene, 1-	592-41-6	HFB000	84,16	ppm	Y	3,44	C6H12	L	-139,9	64,5	310	38	0,6732	3	
1003	Hexylene glycol	107-41-5	HFP875	118,20	ppm	Y	4,83	C6H14O2	L	-50	197,1	0,05	20	0,9234	2	T-1 changed
1004	HMX ; (Cyclotetramethylene tetranitramine)	2691-41-0	CQH250	296,20	mg/m3	Y	12,11	C4H8N8O8	S	279	expl @ 279				3	Added
1005	Holmium trioxide	12055-62-8	N.I.S.	377,86	mg/m3	N	15,44	Ho2-O3	S	2415				8,41		Added. Listed in TSCA, no toxicity data
1006	**Hydrazine**	302-01-2	HGS000	32,06	ppm	Y	1,31	H2.N=N.H2	L	2,2	113,3	10	20	1,1011	3	**ERPG-1, -2, -3**
1007	Hydrazine hydrate, aequeous solutions	10217-52-4	HGU500	158,20	mg/m3	Y	6,47	H4N2.H2O	L	-51,7	118.5 @ 740mm			1.03 @ 21C	3	
1008	Hydrazine hydrochloride; (Hydrazine monochloride)	2644-70-4	HGV000	68,52	mg/m3	N	2,80	H4N2.2HCl (H4N2.HCl)	S	198	200 dec			1,42	3	
1009	Hydrazine monohydrate	7803-57-8	HGU501	50,08	ppm	Y	2,05	H4N2.H2O	L		118.5 @ 740mm			1.03 @ 21	3	.
1010	Hydrazine nitrate; (Hydrazinium nitrate)	13464-97-6	HGZ000	95,06	mg/m3	N	3,89	N2H4NO3	S	70						T-3 changed
1011	Hydrazine sulfate	10034-93-2	HGW500	130,14	mg/m3	Y	5,32	H4N2.H2SO4	S/L	254 decom				1,378	3	.
1012	Hydriodic acid 4 (as iodine)	10034-85-2	HHI500	127,91	ppm	Y	5,23	HI	G	-50,8	-35,38	5940	25	5,66	3	
1013	Hydrobromic acid; (Hydrogen bromide)	10035-10-6	HHJ000	80,92	ppm	Y	3,31	BrH	G	-87	-66,5	760	-66,5	3,5	3	
1014	Hydrogen	1333-74-0	HHW500	2,02	ppm	N	0,08	H2	G	-259,18	-252,8	1240000	25	0.070 @ -253 C	3	Asphixiant, all Ts changed to LEL=4.1%
1015	**Hydrogen chloride; (Hydrochloric acid)**	7647-01-0	HHL000	36,46	ppm	Y	1,49	HCl	G	-114,4	-85	40	17,8	1.194 @ -26 C	3	**ERPG-1, -2, -3**
1016	**Hydrogen cyanide; (Hydrocyanic acid)**	74-90-8	HHS000	27,03	ppm	Y	1,10	HCN	L	-13,3	25,6	630		0.715 @ 0 C	3	**ERPG-2, -3**
1017	**Hydrogen fluoride; (Hydrofluoric acid)**	7664-39-3	HHU500	20,01	ppm	Y	0,82	HF	G>19	-83,3	19,4	>760		0,699	3	**ERPG-1, -2, -3**
1018	**Hydrogen peroxide**	7722-84-1	HIB000	34,02	ppm	Y	1,39	H2.O2	L	-6,7	141,1	5	30	1.46 @ 0 C	3	**ERPG-1, -2, -3**

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No.	Chemical Compound	CAS Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity concentration dependent	ppm to mg/m^3 conversion factor	Molecular formula	State at 25oC	MP (FP) oC	BP °C	Vapor Pressure mm Hg	Vapor Pressure T (°C)	SG	HR	Comments
1019	**Hydrogen selenide**	7783-07-5	HIC000	80,98	ppm	Y	3,31	H2Se	G	-64	-41,4	7600	23,4		3	**ERPG-2, -3**
1020	**Hydrogen sulfide**	7783-06-4	HIC500	34,08	ppm	Y	1,39	H2.S	L	-85,6	-60,6	>760		0,993	3	**ERPG-1, -2, -3; ignored ERPG-1**
1021	Hydroquinone	123-31-9	HIH000	110,12	mg/m3	Y	4,50	C6H6O2	S	172	285	1	132,4	1,358	3	
1022	Hydrotreated (mild & severe) heavy paraffinic distillates	64742-54-7	MQV795		mg/m3	N		[Unspecified]	L						3	
1023	Hydroxy-4-methyl-2-pentanone, 4-; (Diacetone alcohol)	123-42-2	DBF750	116,18	ppm	Y	4,75	C6H12O2	L	-47	164	1,1	20	0,9306	3	
1024	Hydroxyethylenediaminetriacetic acid, n-	150-39-0	HKS000	278,30	mg/m3	N	11,37	C10-H18-N2-O7	S	160-5 dec					3	T-3 uses 'ip' data All Ts changed.
1025	Hydroxyethylidine biphosphonic acid, 1-; (1-Hydroxyethylidene-1,1-diphosphonic acid)	2809-21-4	HKS780	206,03	mg/m3	N	8,42	C2H8O7P2	S	105					3	
1026	Hydroxylamine	7803-49-8	HLM500	33,04	mg/m3	Y	1,35	H3NO	L	34	110	10	47,2	1,227	3	T-3 uses 'ip' data All Ts changed.
1027	Hydroxylamine chloride; (Hydroxylamine hydrochloride)	5470-11-1	HLN000	69,50	mg/m3	Y	2,84	H3NO.ClH	S	159	dec			1,6717	3	
1028	Hydroxylamine nitrate	13465-08-2	N.I.S.	96,04	mg/m3	Y	3,93	NH2OH.HNO3	L					1,156	3	T-3 changed.
1029	Hydroxylamine sulfate; (Oxammonium sulfate)	10039-54-0	OLS000	164,16	mg/m3	Y	6,71	H6N2O2.H2O4S	S	177					3	
1030	Hypophosphorus acid; (Phosphinic acid)	6303-21-5	PGY250	66,00	mg/m3	N	2,70	H3O2P	S	26,5				1,439	3	
1031	Iminodiacetic acid	142-73-4	IBH000	133,12	mg/m3	N	5,44	C4H7NO4	S	220-250	247.5 dec				3	T-3 uses 'ip' data All Ts changed.
1032	Indan	496-11-7	IBR000	118,19	mg/m3	N	4,83	C9H10	L	-51,4	176,5			0,963	1	
1033	Indene	95-13-6	IBX000	116,17	ppm	Y	4,75	C9H8	L	-1,8	181,6			0,9968	2	
1034	Indeno(1,2,3-cd)pyrene	193-39-5	IBZ000	276,34	mg/m3	N	11,29	C22H12	S	161-163.5					3	Added
1035	Indigo carmine; (FD&C blue No 2)	860-22-0	FAE100	468,38	mg/m3	N	19,14	C16H10N2O8S2.2Na	S						3	T-3 uses 'iv' data T-2, T-3 changed.
1036	Indium oxide (vapor)	1312-43-3	N.I.S.	245,64	mg/m3	N	10,04	In2-O	V							Added (used fake CASRN)
1037	Indium trichloride	10025-82-8	ICK000	221,17	mg/m3	N	9,04	Cl3In	S	586 subl	600			4	3	T-3 uses 'ip' data All Ts changed.
1038	Indium(III) oxide	1312-43-2	ICI100	277,64	mg/m3	N	11,35	In2-O3	S	1913				7,18	1	Added
1039	Indole-3-carboxaldehyde, iH-; (3-Formylindole)	487-89-8	FNO100	145,17	ppm	N	5,93	C9-H7-N-O							2	T-3 uses 'ip' data Added
1040	Iodic acid (as iodine)	7782-68-5	IDK000	175,91	mg/m3	Y	7,19	HIO3	S	110 dec				4,629	3	All Ts changed
1041	**Iodine**	7553-56-2	IDM000	253,80	ppm	Y	10,37	I2	S	113,5	184			4,93	3	**ERPG-1, -2, -3**
1042	Iodine solutions; (Todine solutions)	25655-41-8	N.I.S. etc.		mg/m3	Y		(Mixture)	L	17	118				3	MSDS mixture components used
1043	Iron	7439-89-6	IGK800	55,85	mg/m3	N	2,28	Fe	S	1535	3000			7,87	3	
1044	Iron carbide	12011-67-5	IGQ750	179,55	mg/m3	N	7,34	Fe3-C	S							Added. No data, so treated as insoluble Fe fume
1045	Iron hydroxide oxide	20344-49-4	IGR499	88,86	mg/m3	N	3,63	FeO.(OH)	S					4,26	3	Name corrected (TSCA and HC&P) All Ts changed.
1046	Iron oxide; (Ferric oxide)	1309-37-1	IHC450	159,70	mg/m3	N	6,53	Fe2O3	S	1565				5.12 - 5.24	3	
1047	Iron pentacarbonyl	13463-40-6	IHG500	195,90	ppm	Y	8,01	Fe(OC)5	L	-25	103	40	30,3	1.453 @25	3	
1048	Iron(II) chloride tetrahydrate	13478-10-9	FBJ000	198,83	mg/m3	Y	8,13	Cl2Fe.4H2O	S	105 dec				1,93	3	T-3 uses 'ip' data T-2, T-3 changed.

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1049	Isoamyl acetate; (Isopentyl acetate)	123-92-2	IHO850	130,21	ppm	Y	5,32	C7H14O2	L	-78,5	142,5	5,6	25	0.876 @15C	3	
1050	Isoamyl alcohol (primary)	123-51-3	IHP000	88,17	ppm	Y	3,60	(CH3)2CHC.4H4.OH	L	-117,2	132	28	20	0,813	3	
1051	Isoamyl alcohol (secondary)	584-02-1	IHP010	88,17	ppm	Y	3,60	(CH3)2CHC.4H4.OH	L		115,6			0,815	3	
1052	Isoamylnitrite; (Isopentyl nitrite)	110-46-3	IMB000	117,17	ppm	N	4,79	C5H11NO2	L	unstabl	97-99			0,872	3	
1053	Isobenzan	297-78-9	OAN000	411,73	mg/m3	N	16,83	C9H4Cl8O	S	120-122		0,00001	25	1,87	3	Added
1054	Isobutanol-2-amine	124-68-5	IIA000	89,16	mg/m3	N	3,64	C4H11NO	S	30-31	165			0,934	3	
1055	Isobutyl acetate	110-19-0	IIJ000	116,18	ppm	Y	4,75	C6H12O2	L	-98,9	118	10	12,8	0,8685	3	
1056	Isobutyl alcohol	78-83-1	IIL000	74,14	ppm	Y	3,03	(CH3)2CHCH2. OH	L	-107,8	108,3	9	20	0,8	3	
1057	Isobutyl isobutyrate	97-85-8	IIW000	144,24	mg/m3	N	5,90	C8H16O2	L	-81	147,5	10	39,9	0.85-0.86	2	
1058	Isobutylamine	78-81-9	IIM000	73,16	ppm	Y	2,99	C4H11N	L	-85,5	68,6	138	25	0.731 @ 20 C	3	
1059	Isobutyraldehyde	78-84-2	IJS000	72,12	ppm	Y	2,95	C4H8O	L	-65	64	173	25	0.7938 @ 20C	3	
1060	Isobutyric acid	79-31-2	IJU000	88,12	ppm	Y	3,60	C4H8O2	L	-47	118-119	1	14,7	0.949 @ 20 C	3	
1061	**Isobutyronitrile**	78-82-0	IJX000	69,12	ppm	Y	2,83	(CH3)2.CH.CN	L	-75	107	~28	20	0,773	3	**ERPG-1, -2, -3**
1062	Isocyanate-bearing waste (as CNs N.O.S.)	z-0040	IKG349		mg/m3	N		[Unspecified]	L/S						D	
1063	**Isocyanatoethyl methacrylate, 2-**	30674-80-7	IKG700	155,17	ppm	N	6,34	C7H9NO3	L		211	0,2	25		3	**ERPG-2, -3**
1064	Isocyanic acid-3,4-dichlorophenyl ester; (3,4-Dichlorophenyl isocyanate)	102-36-3	IKH099	188,01	mg/m3	N	7,68	C7H3Cl2NO	S	42-43	240	0,02	25		3	SAX and RTECS tox data conflict. Added
1065	Isodrin	465-73-6	IKO000	364,90	mg/m3	N	14,91	C12H8Cl6	S	240-242	344	0,00001	25		3	Added
1066	Isooctane; (Trimethyl-2-oxepanone)	64047-30-9	TLY000	156,25	mg/m3	N	6,39	C9H16O2							3	
1067	Isopentane; (Ethyldimethylmethane; 2-Methyl-butane)	78-78-4	EIK000	72,17	ppm	Y	2,95	C5H12	S	-160,5	30,2	595	21,1	0,62	3	
1068	Isophorone	78-59-1	IMF400	138,23	ppm	Y	5,65	C9H14O	L		215,2	1	38	0,9229	3	
1069	Isophorone diisocyanate	4098-71-9	IMG000	222,32	ppm	N	9,09	C12H18N2O2	S	-60	360	0,00001	25	1.062 @ 20 C	3	RTECS tox data used. Added
1070	Isoprene	78-79-5	IMS000	68,13	ppm	N	2,78	H2C=C(CH3)CH=CH2	L	-146,7	34	400	550	25	3	
1071	Isopropyl acetate	108-21-4	INE100	102,15	ppm	Y	4,18	C5H10O2	L	-73	88,4	40	17	0,874	3	
1072	Isopropyl alcohol	67-63-0	INJ000	60,11	ppm	Y	2,46	(CH3)2.CH.OH	L	-88,3	82,8	33	20	0,7854	3	T-2 changed.
1073	Isopropyl chloride; (2-Chloropropane)	75-29-6	CKQ000	78,54	ppm	N	3,21	CH3CHClCH3	L	-117	34,8	515,3	25	0.868 @ 15 C	3	
1074	Isopropyl chloroformate; (Isopropyl chlorocarbonate)	108-23-6	IOL000	122,56	ppm	Y	5,01	(CH3)2CHOCO-Cl	L	-80	105	72	21	1,078	3	T-2 changed.
1075	Isopropyl methanefluorophosphonate; (Sarin; GB)	107-44-8	IPX000	140,11	mg/m3	Y	5,73	C4H10FO2P	L	-58	147	1,57	20	1,1	3	
1076	Isopropylamine; (2-Propanamine)	75-31-0	INK000	59,13	ppm	Y	2,42	(CH3)2CHNH2	L	-101,2	33-34	579,6	25	0.694 @ 15C	3	
1077	Isopropylmethylpyrazolyl dimethylcarbamate; (Isolan)	119-38-0	DSK200	211,30	mg/m3	N	8,64	C10H17N3O2	L		295	0,001	25	1.07 @ 20 C	3	Added
1078	Jet fuels (JP-5 and JP-8) (as Kerosene)	z-0041	JDJ000		mg/m3	Y		[Unspecified]	L					0,8	3	T-2 uses 'iv' data T-2 changed.

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1079	Kepone; (Chlordecone)	143-50-0	KEA000	490,60	mg/m3	N	20,05	C10Cl10O	S	350 dec					3	T-1, T-2 changed
1080	Kerosene	8008-20-6	KEK000	170,00	mg/m3	Y	6,95	C10 to C16 hydrocarbons	L	-46	175-->	5	20	0.81 @ 15C	3	T-2 uses 'iv' data T-1 changed.
1081	Ketene; (Carbomethene, Ethenone)	463-51-4	KEU000	42,04	ppm	Y	1,72	C2H2O	G	-150	-56	>760		1.45 vapor	3	
1082	Lactic acid	50-21-5	LAG000	90,09	mg/m3	Y	3,68	C3H6O3	L	16,8	122 @ 15mm			1,249	2	
1083	Lactonitrile	78-97-7	LAQ000	71,09	mg/m3	N	2,91	C3H5NO	L	-40	221	0,119	25	0.9834 @ 25 C	3	HSDB pchem data used. Added
1084	Lanthanum	7439-91-0	LAV000	138,91	mg/m3	N	5,68	La	S	920	3464			6,166	3	
1085	Lanthanum alizarin (as La)	z-0042	(LAV000)		mg/m3	N		[Unknown]							1	
1086	Lanthanum carbonate	z-0043	N.I.S. etc.	601,96	mg/m3	N	24,60	La2(CO3)3.8H2O	S					2,6		
1087	Lanthanum fluoride	13709-38-1	N.I.S.	195,90	mg/m3	Y	8,01	LaF3	S							Added
1088	Lanthanum hydroxide	14507-19-8	N.I.S.	189,93	mg/m3	N	7,76	La(OH)3	S	dec						Added. TSCA CASRN. No toxicity data found. **SAR**
1089	Lanthanum nitrate	10099-59-9	LBA000	324,94	mg/m3	N	13,28	N3O9.La	Sdeliq	~40	~126				3	
1090	Lanthanum oxide	1312-81-8	LBA100	325,82	mg/m3	Y	13,32	La2O3	S	2315	4200			6,51	1	
1091	Lanthanum phosphate	14913-14-5	N.I.S.	233,88	mg/m3	N	9,56	LaPO4	S							Added. No toxicity data found. **SAR**
1092	Lead	7439-92-1	LCF000	207,19	mg/m3	N	8,47	Pb	S	327,2	1740	~0	20	11,34	3	
1093	Lead acetate basic; (Lead subacetate)	1335-32-6	LCH000	807,71	mg/m3	N	33,01	C4H10O8Pb3	S	75	200 dec				2	T-2, T-3 changed.
1094	Lead acetate; (Lead diacetate)	301-04-2	LCV000	325,29	mg/m3	N	13,30	C4H6O4.Pb	Pwdr	75	>200 decomp			2,55	3	T-0, T-2, T-3 changed.
1095	Lead acid arsenate; (Dibasic lead arsenate)	7784-40-9	LCK000	347,12	mg/m3	N	14,19	AsHO4.Pb	S	720 dec				5,8	3	T-2, T-3 changed.
1096	Lead arsenate	3687-31-8	LCK100	899,41	mg/m3	N	36,76	As2O8.3Pb	S						3	T-3 changed.
1097	Lead bromide	10031-22-8	LCT000	367,01	mg/m3	N	15,00	PbBr2	S	373	916			6,66		T-3 changed.
1098	Lead carbonate	598-63-0	LCP000	267,21	mg/m3	N	10,92	Pb.CO3	S	315	400 dec			6,61	2	Added
1099	Lead chloride	7758-95-4	LCQ000	278,09	mg/m3	N	11,37	PbCl2	S	501	950	1	547	5,85	2	T-2, T-3 changed.
1100	Lead chromate	7758-97-6	LCR000	323,19	mg/m3	N	13,21	CrO4.Pb	S	844	dec			6,3	3	T-2, T-3 changed.
1101	Lead dioxide	1309-60-0	LCX000	239,19	mg/m3	Y	9,78	PbO2	S	290 dec				9,375	3	T-1, T-2 changed.
1102	Lead fluoborate	13814-96-5	LDE000	380,81	mg/m3	N	15,56	Pb.B2F8	L					1.75 @ 20C	3	Only stable in aequeous solution. T-3 changed.
1103	Lead fluoride	7783-46-2	LDF000	245,20	mg/m3	N	10,02	PbF2	S	855	1290	10	904	7.75 cubic	3	T-2 changed.
1104	Lead hydroxide	19783-14-3	LCT000	241,21	mg/m3	N	9,86	Pb.(OH)2	S							TSCA & H&N listed CASRN. Added
1105	Lead iodide	10101-63-0	LCT000	461,01	mg/m3	N	18,84	PbI2	S	402	954			6,16		T-3 changed.
1106	Lead nitrate	10099-74-8	LDO000	331,21	mg/m3	Y	13,54	N2O6.Pb	S	470 dec				4,53	3	T-2 uses 'iv' data T-1, T-2, T-3 changed.
1107	Lead nitrite	z-0044	LCT000	299,20	mg/m3	N	12,23	Pb(NO2)2	S							Added
1108	Lead oxalate	814-93-7	LCT000	295,22	mg/m3	N	12,07	Pb.(COOH)2	S							TSCA & H&N listed CASRN. Added

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1109	Lead oxide; (Lead monoxide)	1317-36-8	LDN000	223,19	mg/m3	Y	9,12	PbO	S	888				9,53	2	T-0, T-1, T-2 changed
1110	Lead phosphate	7446-27-7	LDU000	811,51	mg/m3	N	33,17	3Pb.P2O8	S	1014				6.9-7.3	3	T-2 changed.
1111	Lead sulfate	7446-14-2	LDY000	303,25	mg/m3	Y	12,39	O4S-Pb	S	1170 (dec @ 1000)				6,2	3	All Ts changed.
1112	Lead sulfide	1314-87-0	LDZ000	239,25	mg/m3	N	9,78	Pb.S	S	1114	1281	1	852	7,5	2	T-3 uses 'ip' data T-0, T-2 changed.
1113	Lead tetroxide	1314-41-6	LDS000	685,57	mg/m3	N	28,02	Pb3O4	S	830	1472	1	943	8.32->	3	
1114	Lead(II) arsenite	10031-13-7	LCL000	421,03	mg/m3	N	17,21	As2O4.Pb	S					5,85	3	T-3 changed.
1115	Lead,bis(acetato)trihydroxytri- (as Pb)	6080-56-4	LCJ000	379,35	mg/m3	N	15,50	C4H6O4.Pb. 3H2O	S						3	T-2, T-3 changed.
1116	Leptophos	21609-90-5	LEN000	412,07	mg/m3	N	16,84	C13H10BrClO2. PS	S	70.2-70.4	380	0,000002	25	1.53 @ 25 C	3	Added
1117	Lewisite; (Chlorovinylarsine dichloride)	541-25-3	CLV000	207,31	mg/m3	Y	8,47	C2H2AsCl3	L	-13	190 dec	0,4	20	1.888 @ 20 C	3	Added
1118	Lignosulfonate (aqueous)	8062-15-5	N.I.S.		mg/m3	N		[Unknown]	L	~200 dec				~ 1.5		T-2 changed.
1119	Limonene, d-	5989-27-5	LFU000	136,26	ppm	N	5,57	C10H16	L		175.5-176			0,8402	3	WEEL CASRN = 138-86-3. HSDB: (L)-Limonene for CASRN = 5989-54-8. H&N has both.
1120	Lindane; (gamma-benzenehexachloride)	58-89-9	BBQ500	290,82	mg/m3	N	11,89	C6H6Cl6	S			0,5			3	
1121	Linseed oil	8001-26-1	LGK000		mg/m3	Y		[Unknown]	L	-19	343			0,93	2	T-2 uses 'sk' data All Ts changed.
1122	Liquified petroleum gas; (L.P.G.)	68476-85-7	LGM000	42,58	ppm	N	1,74	[Unspecified]	G						3	
1123	Lithium	7439-93-2	LGO000	6,94	mg/m3	N	0,28	Li	S	178	1317	1	723	0,534	3	T-3 uses 'ip' data T-3 changed.
1124	Lithium aluminum oxide; (Lithium aluminate)	11089-89-7	N.I.S.	65,92	mg/m3	N	2,69	LiAlO2	S	1900-2000				2,5525	D	
1125	Lithium aluminum silicate; (Spodumene (mineral))	1302-66-5	N.I.S.	306,28	mg/m3	N	12,52	Al-Li-O6-Si-O4	S							
1126	Lithium azide	19597-69-4	LGV000	48,96	mg/m3	Y	2,00	LiN3	S	115-298					D	
1127	Lithium bromide	7550-35-8	LGY000	86,85	mg/m3	N	3,55	LiBr	Sdeliq.	547	1265	1	748	3,46	2	
1128	Lithium carbonate	554-13-2	LGZ000	73,89	mg/m3	N	3,02	CO3.2Li	S	720	1200 dec			2,11	3	
1129	Lithium chromate	14307-35-8	LHD000	129,88	mg/m3	N	5,31	Li2.CrO4. 2H2O	Sdeliq.	150?					3	T-3 changed.
1130	Lithium deuteride	z-0045	N.I.S.	8,96	mg/m3	N	0,37	LiD	S	680				0,906	D	
1131	Lithium fluoride	7789-24-4	LHF000	25,94	mg/m3	N	1,06	Fli	S	848	1676	1	1047	2,635	3	T-3 changed.
1132	**Lithium hydride**	7580-67-8	LHH000	7,95	mg/m3	Y	0,32	LiH	S	680	850 dec	~0	20	0.76-0.77	3	**ERPG-1, -2, -3**
1133	Lithium hydroxide	1310-65-2	LHI100	23,95	mg/m3	Y	0,98	LiOH	S	470	924 dec			2,54	3	
1134	Lithium metaborate, anhydrous	1303-94-2	N.I.S. etc.	49,75	mg/m3	N	2,03	LiBO2	S	845				1,39741	D	
1135	Lithium molybdate	z-0046	N.I.S. etc.	173,82	mg/m3	N	7,10	Li2MoO4	S	705				2,66	D	
1136	Lithium niobate oxide; (Lithium niobate)	12031-63-9	N.I.S.	147,85	mg/m3	N	6,04	LiNbO3	S	1250					D	T-0, T-1, T-2 changed.
1137	Lithium nitrate	7790-69-4	N.I.S.	69,00	mg/m3	Y	2,82	LiNO3	S	261	600 dec			2,38		HC&P
1138	Lithium nitride	26134-62-3	LHM000	34,82	mg/m3	Y	1,42	Li3N	S	813				1,3	3	

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Table 1: Revision 19 of Chemicals for which TEELs have been derived. with some physicochemical data

No.	Chemical Compound	CAS Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity concentration dependent	ppm to mg/m^3 conversion factor	Molecular formula	State at 25oC	MP (FP) oC	BP °C	Vapor Pressure mm Hg	Vapor Pressure T (°C)	SG	HR	Comments
1139	Lithium nitrite	z-0047	N.I.S. etc.	52,94	mg/m3	N	2,16	LiNO2	S							Added. No listing or toxicity data found. **SAR**
1140	Lithium sulfate	10377-48-7	LHR000	109,94	mg/m3	N	4,49	O4S·2Li	S	859					2	
1141	Lithium tetraborate	12007-60-2	N.I.S.	259,19	mg/m3	N	10,59	Li2B4O7. 5H2O	S	930					D	MW=169.12 without 5H2O
1142	Lutetium oxide	12032-20-1	N.I.S.	397,93	mg/m3	N	16,26	Lu2O3	S	2500				9,42		
1143	Magnesium	7439-95-4	MAC750	24,31	mg/m3	N	0,99	Mg	S	651	1100	1	62,1	1,738	3	
1144	Magnesium carbonate; (Magnesite)	546-93-0	MAC650	84,32	mg/m3	N	3,45	Mg.CO3	S	350 dec				3,04	1	
1145	Magnesium chloride	7786-30-3	MAE250	95,21	mg/m3	N	3,89	Cl2Mg	S	714	1412			2,325	3	
1146	Magnesium fluoride	7783-40-6	MAF500	62,31	mg/m3	N	2,55	F2Mg	S	1263	2239			2.9-3.2	2	T-3 changed.
1147	Magnesium formate	557-39-1	MAE750	150,31	mg/m3	Y	6,14	Mg(CHO2)2. 2H2O	S							
1148	Magnesium hydroxide	1309-42-8	MAG750	58,33	mg/m3	N	2,38	Mg-(OH)2	S amor	350 dec				2,36	2	
1149	Magnesium nitrate; (Magnesium(II) nitrate (1:2))	10377-60-3	MAH000	148,33	mg/m3	N	6,06	N2O6.Mg	S	95-100	330 dec			1,45	3	T-3 changed
1150	Magnesium oxide	1309-48-4	MAH500	40,31	mg/m3	N	1,65	MgO	S	2800	3600	~0	20	3.65-3.75	2	
1151	Magnesium silicate (hydrate)	1343-90-4	MAJ000	278,91	mg/m3	N	11,40	Mg2O8Si3H2O	S						1	T-3 changed
1152	Malathion	121-75-5	MAK700	330,38	mg/m3	N	13,50	C10H19O6PS2	L	2,9	156 @ 0.7mm	0,00004		1,23	3	T-2 changed.
1153	Maleic acid	110-16-7	MAK900	116,08	mg/m3	Y	4,74	C4H4O4	S	130-131	135 dec			1,59	2	
1154	Maleic anhydride	108-31-6	MAM000	98,06	mg/m3	N	4,01	C4H2O3	S	52,7	202,2	0,2	20	1,48	3	
1155	Maleic hydrazide; (3,6-Pyridazinedione,1,2-dihydro-)	123-33-1	DMC600	112,10	mg/m3	N	4,58	C4H4N2O2	S	>300				1.60 @ 25 C	2	
1156	Malonic acid; (Carboxyacetic acid)	141-82-2	CCC750	104,07	mg/m3	Y	4,25	C3H4O4	S	135,6				1,63	3	
1157	Manganese	7439-96-5	MAP750	54,94	mg/m3	Y	2,25	Mn	S	1244	2060	1	1292	7,2	3	
1158	Manganese carbonate	598-62-9	MAR500	114,95	mg/m3	Y	4,70	Mn-C-H2-O3	S		200 dec			3,7		Lisated in HSDB, TSCA, H&N. Added
1159	Manganese dioxide (as Mn)	1313-13-9	MAS000	86,94	mg/m3	Y	3,55	MnO2	S	dec				5	3	T-2 changed.
1160	Manganese hydroxide	18933-05-6	MAR500	88,95	mg/m3	N	3,64	Mn(OH)2	S	dec				3,26		
1161	Manganese nitrite	z-0048	MAR500	146,95	mg/m3	Y	6,01	Mn(NO2)2	S							Added
1162	Manganese oxalate	z-0049	MAR500	142,95	mg/m3	Y	5,84	MnC2O4	S							Added
1163	Manganese oxide; (Manganese tetroxide)	1317-35-7	MAU800	228,82	mg/m3	N	9,35	Mn3O4	S	1564				4,7	2	T-2 changed.
1164	Manganese phosphate	10124-54-6	MAR500	354,75	mg/m3	Y	14,50	xMn.PH3O4	S							CASRN ex H&N, x = 5 for MW given. Added
1165	Manganese tricarbonyl methylcyclopentadienyl	12108-13-3	MAV750	218,10	mg/m3	Y	8,91	MnO3C9H7	L/S	1,5	233	7,3	100	1.388 @ 20	3	
1166	Manganese(II) chloride (1:2); (Manganous chloride)	7773-01-5	MAR000	125,84	mg/m3	N	5,14	Cl2Mn	S deliq	654	1225			2,977	3	
1167	Manganese(II) nitrate	10377-66-9	MAS900	178,96	mg/m3	Y	7,31	N2O6.Mn	S	26	129			1,82	2	
1168	Manganese(VII) oxide	12057-92-0	MAT750	221,88	mg/m3	Y	9,07	Mn2O7	L	5,9					3	Added

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1169	Manganous oxide; (Manganese[II] oxide)	1344-43-0	MAT250	70,94	mg/m3	N	2,90	MnO	S	1650				5,45	2	
1170	Manganous sulfate (as Mn)	7785-87-7	MAU250	151,00	mg/m3	N	6,17	MnSO4.	S	700	850 dec			3,25	3	
1171	Manganous sulfide; (Manganese(II) sulfide)	18820-29-6	MAV000	87,00	mg/m3	N	3,56	MnS	S	3,99					2	
1172	Mastic (resin)	61789-92-2	MBU777		mg/m3	N		[Unspecified]	S						1	T-3 uses 'sk' data T-0, T-1, T-2 changed.
1173	Melamine	108-78-1	MCB000	126,15	mg/m3	Y	5,16	C3H6N6	S	347	subl.	50	315	1,573	2	
1174	Mephosfolan	950-10-7	DHH400	269,34	mg/m3	N	11,01	C8H16NO3PS2	S		410	1E-10	25	1.539 @ 26 C	3	Added
1175	Mercaptobenzothiazole, 2-; (2-Benzothiazolthiol))	149-30-4	BDF000	167,25	mg/m3	N	6,84	C7H5NS2	S	177-179				1,52	3	T-2 uses 'ip' data T-0, T-1, T-2 changed.
1176	Mercuric acetate	1600-27-7	MCS750	318,69	mg/m3	Y	13,03	Hg.C4H6O	S	178-180	decom			3,28	3	T-3 changed.
1177	Mercuric cyanide	592-04-1	MDA250	252,63	mg/m3	Y	10,33	Hg.C2N2	S	320 decom				3,996	3	T-1, T-2 changed.
1178	Mercuric iodide; (Mercury(II) iodide)	7774-29-0	MDD000	454,39	mg/m3	N	18,57	HgI2	S	259	~350			6,28	3	T-3 changed.
1179	Mercuric nitrate monohydrate	7782-86-7	MCZ000	281,62	mg/m3	Y	11,51	Hg.(NO3)H.H2O	S						3	In H&N T-1, T-3 changed.
1180	Mercuric sulfate; (Mercury (II) sulfate)	7783-35-9	MDG500	296,65	mg/m3	Y	12,12	Hg.SO4	S	decom				6,47	3	T-1, T-3 changed.
1181	Mercuric thiocyanate; (Mercuric sulfocyanate)	592-85-8	MCU250	316,79	mg/m3	N	12,95	Hg(SCN)2	S						3	T-3 changed.
1182	Mercurol; (Mercury nucleate)	12002-19-6	MCV250		mg/m3	N		20% Hg	S						3	
1183	Mercurous chloride (see also MCY300)	7546-30-7	MCW000	236,04	mg/m3	N	9,65	Hg.Cl	S	400 subl				7,15	3	
1184	Mercurous nitrate; (Mercury[1] nitrate[1:1])	10415-75-5	MDE750	262,60	mg/m3	Y	10,73	Hg.NO3	S	70 decom				4.78 @ 25C	3	T-1, T-3 changed.
1185	Mercurous oxide	15829-53-5	MDF750	417,22	mg/m3	Y	17,05	Hg2O	S	100 dec				9,8	3	T-1 changed
1186	Mercury hydroxide	z-0050	N.I.S. etc.	234,61	mg/m3	N	9,59	Hg.((OH)2	S							Added
1187	Mercury nitrate; (Mercury[II] nitrate [1:2])	10045-94-0	MDF000	324,61	mg/m3	Y	13,27	Hg.(NO3)2	S	79	decom			4,39	3	T-1, T-3 changed.
1188	Mercury nitrite	z-0051	MCZ000	292,59	mg/m3	N	11,96	Hg.(NO2)2	S							Added
1189	**Mercury vapor**	**7439-97-6**	MCW250	200,59	mg/m3	Y	8,20	Hg (element)	L	-38,9	356,7	0,00225		13,534	3	**ERPG-2, -3 for Hg vapor,** T-1 changed
1190	Mercury(II) chloride (as Hg)	7487-94-7	MCY475	271,50	mg/m3	Y	11,10	Cl2Hg	S	280	302	1	136,2	5,44	3	T-1, T-2, T-3 changed.
1191	Mercury(II) oxide; (Mercuric oxide)	21908-53-2	MCT500	216,59	mg/m3	Y	8,85	HgO	S	500 dec				11,14	3	T-1, T-2 changed.
1192	Mesitylene; (1,3,5-Trimethyl benzene)	108-67-8	TLM050	120,21	ppm	Y	4,91	C9H12	L	-44,8	164,7			0,8637	3	
1193	Methacrolein diacetate; (Acetic acid-2-methyl-propene-1,1-diol diester)	10476-95-6	AAW250	172,20	mg/m3	N	7,04	C8H12O4	L		191	0,35	25	1.051 @ 20 C	3	Name changed, synonym added. SAX and RTECS tox data differ. Added
1194	Methacrylaldehyde	78-85-3	MGA250	70,10	ppm	Y	2,87	C4H6O	L	-81	68-70	120	20	0.830 @ 20 C	3	Added
1195	Methacrylic acid	79-41-4	MDN250	86,10	ppm	Y	3,52	H2C=C(CH3)CO.OH	L	16	163	1	25,5	1.014 @25 c	3	
1196	Methacrylic anhydride	760-93-0	MDN699	154,18	mg/m3	N	6,30	C8H10O3	L		240	0,01	25	1,035	3	Added
1197	Methacrylonitrile; (Methylacrylonitrile)	126-98-7	MGA750	67,10	ppm	Y	2,74	C4H5N	L	-36	90,3	40	12,8	0,805	3	
1198	Methacryloyl chloride	920-46-7	MDN899	104,54	ppm	N	4,27	C4H5ClO	L	-60	96	40	25		3	Added

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1199	Methamidophos	10265-92-6	DTQ400	141,14	mg/m3	N	5,77	C2H8NO2PS	S	40	dec	0,0003	25	1.31 @ 44.5 C	3	Added
1200	Methane	74-82-8	MDQ750	16,05	ppm	N	0,66	CH4	G	-182,5	-161,6	>760		0,7168	3	T-3 limited to LEL=5%
1201	Methanesulfonic acid	75-75-2	MDR250	96,01	mg/m3	Y	3,92	CH4O3S	S/L	20	167 @ 10mm			1,4812	3	
1202	Methanesulfonic acid, ethyl ester; (Ethyl methanesulfonate)	62-50-0	EMF500	124,17	mg/m3	N	5,07	C3H8O3S	L		213	0,328	25	1.1452 @ 22 C	3	T-2 uses 'ip' data T-3 uses 'ip' data All Ts changed.
1203	Methanesulfonyl fluoride; (Methanesulfonyl fluoride)	558-25-8	MDR750	98,10	ppm	N	4,01	CH3FO2S	L		124	10	25		3	Added
1204	Methidathion; (Dithiophosphate)	950-37-8	DSO000	302,34	mg/m3	Y	12,36	C6H11N2O4PS3	S	39-40		0,000001	25	1.495 @ 20 C	3	Added
1205	Methiocarb; (Mercaptodimethur)	2032-65-7	DST000	225,33	mg/m3	N	9,21	C11H15NO2S	S	117-118	325	0,0001	25		3	Added
1206	Methomyl	16752-77-5	MDU600	162,23	mg/m3	N	6,63	C5H10N2O2S	S	78-79	335	0,00005	25	1.2946 @ 24 C	3	Added
1207	Methoxychlor	72-43-5	MEI450	345,66	mg/m3	N	14,13	C16H15Cl3O2	S	78				12 vapor	3	
1208	Methoxyethoxy)-ethanol, 2-(2-; (Diethylene glycol monomethyl ether)	111-77-3	DJG000	120,17	ppm	Y	4,91	C5H12O3	L	-70	194,2	0,2	20	1,0354	2	
1209	Methoxyethylamine	109-85-3	MEM500	75,13	ppm	N	3,07	C3H9NO	L		95				3	T-3 uses 'ip' data All Ts changed.
1210	Methoxyethylmercuric acetate	151-38-2	MEO750	318,74	mg/m3	N	13,03	C5H10HgO3	S	42		0,00001	25		3	Added
1211	Methoxypropylamine, 3-; (3-MPA)	5332-73-0	MFM000	89,16	ppm	Y	3,64	C4H11NO	L	-75,7	116	20	30	0,8615	3	
1212	Methoxytrimethylsilane	1825-61-2	N.I.S.	104,22	ppm	N	4,26	C4-H12-O-Si								Added. No toxicity data found. **SAR**
1213	Methyl 2-pyrrolidinone, 1-; (n-Methylpyrrolidone)	872-50-4	MPF200	99,15	ppm	Y	4,05	C5H9NO	L	-17	202			1,027	3	
1214	Methyl acetylene	74-99-7	MFX590	40,07	ppm	N	1,64	HC==CCH3	G	-104	-23,3	3876	20	1,38	3	
1215	Methyl acetylene-propadiene mixture; (Mapp Gas)	59355-75-8	MFX600	41,72	ppm	N	1,71	[Unspecified]	G						3	
1216	Methyl acrylate	96-33-3	MGA500	86,10	ppm	Y	3,52	CH3OCO-CH=CH2	L	-76,5	85	100	28	0.9561 @ 20c	3	
1217	**Methyl alcohol; (Methanol)**	67-56-1	MGB150	32,05	ppm	Y	1,31	CH3.OH	L	-97,8	63,9	96	20	0,7915	3	**ERPG-1, -2, -3**
1218	**Methyl bromide; (Bromomethane)**	74-83-9	MHR200	94,95	ppm	Y	3,88	CH3Br	G	-93,9	3,3	>760		1.732 @ 0C	3	**ERPG -2, -3,** T-1 changed
1219	**Methyl chloride**	74-87-3	MIF765	50,49	ppm	Y	2,06	CH3.Cl	G	-97,8	-24,4	>760		0,918	3	**ERPG-2, -3**
1220	Methyl chloroformate; (Methyl chlorocarbonate)	79-22-1	MIG000	94,50	ppm	Y	3,86	C2H3ClO2	L		71,4			1,223	3	T-0, T-1, T-2 changed
1221	Methyl chlorosilane; (Chloromethylsilane)	993-00-0	N.I.S. etc.	80,59	ppm	Y	3,29	CH5ClSi	G	-135	-45					Data ex HC&P Toxicity assumed. Added
1222	Methyl cyclohexylfluorophosphonate; (GF Agent)	329-99-7	MIT600	180,18	mg/m3	N	7,36	C7H14FO2P							3	
1223	Methyl demeton methyl; (Phosphorothioic acid, O,O-dimethyl-s-[2-methylthio] ethyl ester)	2587-90-8	MIW250	216,27	mg/m3	N	8,84	C5H13O3PS2	L		230			1.207 @ 20 C	3	Added
1224	Methyl difluorophosphite; (Methylphosphonic difluoride)	676-99-3	MJD275	100,01	mg/m3	N	4,09	CH3F2OP	L		98			1,33	3	
1225	Methyl ether; (Dimethyl ether)	115-10-6	MJW500	46,08	ppm	N	1,88	C2H6O	G	-138,5	-23,7			0,661	3	T-2 changed.
1226	Methyl ethyl ketone peroxide	1338-23-4	MKA500	176,24	ppm	Y	7,20	C8H16O4	L						3	T-0, T-1, T-2 changed.
1227	Methyl fluoride; (Fluoromethane)	593-53-3	FJK000	34,03	mg/m3	N	1,39	CH3.F	G	-142	-78,2	>760		0.8774@ -78	3	T-3 changed.
1228	Methyl fluoroacetate	453-18-9	MKD000	92,08	mg/m3	N	3,76	C3H5FO2	L		104,5			1.161 @ 15 C	3	Added

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1229	Methyl fluorosulfate	421-20-5	MKG250	114,10	ppm	Y	4,66	CH3FO3S	L		92			1.427 @ 16 C	3	Added
1230	Methyl formate; (Formic acid, methyl ester)	107-31-3	MKG750	60,06	ppm	Y	2,45	C2H4O2	L	-99,8	31,5	400	16	0.975 @ 20c	3	
1231	**Methyl iodide**	74-88-4	MKW200	141,94	ppm	Y	5,80	CH3.I	L	-66,7	42,8	326		2,279	3	**ERPG-1, -2, -3**
1232	Methyl isobutyl ketone; (Hexone)	108-10-1	HFG500	100,18	ppm	Y	4,09	(CH3)2-CH-CH2CO-CH3	L	-84,4	116,7	16	20	0,801	3	
1233	**Methyl isocyanate**	624-83-9	MKX250	57,06	ppm	Y	2,33	CH3NCO	L	-45	39,1	348	20	0,9599	3	**ERPG-1, -2, -3**
1234	Methyl isopropyl ketone; (3-Methyl-2-butanone)	563-80-4	MLA750	86,15	ppm	Y	3,52	C5H10O	L		93-94			0.805 @ 16 C	3	Added
1235	Methyl isothiocyanate; (Isothiocyanatomethane)	556-61-6	ISE000	73,12	mg/m3	Y	2,99	C2H3NS	S/L	36	119	19	20	1.069 @ 37 C	3	
1236	**Methyl mercaptan**	74-93-1	MLE650	48,11	ppm	Y	1,97	CH3.SH	G	-121,1	6,1	>760		0,8665	3	**ERPG-1, -2, -3; ignored ERPG-1**
1237	Methyl mercury	22967-92-6	MLF550	215,63	mg/m3	Y	8,81	CH3.Hg	S						3	
1238	Methyl methacrylate	80-62-6	MLH750	100,13	ppm	Y	4,09	CH2-C(CH3)-COOCH3	L	-48,2	101	2	20	0,936	3	
1239	Methyl n-amyl ketone	110-43-0	MGN500	114,21	ppm	Y	4,67	C7H14O	L		151,5	2,6	20	0,8197	3	
1240	Methyl parathion	298-00-0	MNH000	263,22	mg/m3	N	10,76	C8H10NO5PS	S	35-36	158 @ 2 mm			1,358	3	T-2 changed.
1241	Methyl pentane, 2- (Isohexane)	107-83-5	IKS600	86,20	ppm	Y	3,52	C6H14	L	-154	60,3			0,669	3	
1242	Methyl phencapton	3735-23-7	MNO750	349,25	mg/m3	N	14,27	C9H11Cl2O2PS2	L		400	0,0000035	25		3	Added
1243	Methyl phosphonic dichloride	676-97-1	MOB399	132,91	mg/m3	Y	5,43	CH3Cl2OP	S	32	162				3	
1244	Methyl phosphonothioic dichloride	676-98-2	MOC000	148,97	mg/m3	Y	6,09	CH3Cl2PS	L	-25,6	177-178			1.35-1.42	2	LC50 estimated from similar compounds
1245	Methyl pyridine, 3-: (3-Picoline)	108-99-6	PIB920	93,14	ppm	N	3,81	C6H7N	L		143-144			0,9613	3	
1246	Methyl salicylate	119-36-8	MPI000	152,16	ppm	Y	6,22	C8H8O3	L	-8,6	223,3	1	54	1.184 @25C	3	
1247	Methyl thiocyanate	556-64-9	MPT000	73,12	ppm	N	2,99	C2H3NS	L	-51	130-133			1,068	3	
1248	Methyl trioctyl ammonium chloride	5137-55-3	MQH000	404,25	mg/m3	N	16,52	C25H54N.Cl							3	
1249	Methyl vinyl carbinol; (3-Buten-2-ol)	598-32-3	MQL250	72,12	ppm	N	2,95	C4H8O	L	<-80	97			0.831 @ 20 C	1	Added
1250	Methyl vinyl ketone; (3-Buten-2-one)	78-94-4	BOY500	70,10	ppm	Y	2,87	C4H6O	L		81,4			0,839325	3	T-0, T-1 changed
1251	Methyl-1-butene, 2-	563-46-2	MHT000	70,14	ppm	Y	2,87	C5H10	L	-137,5	31,04	610	20	0.06504 @ 20 C	3	Asphixiant, all Ts changed to LEL=1.5%
1252	Methyl-1H-benzotriazole	29385-43-1	MHK000	133,17	mg/m3	N	5,44	C7H7N3							2	
1253	Methyl-1-phenyl-2-pyrazolin-5-one, 3-	89-25-8	NNT000	174,22	mg/m3	Y	7,12	C10H10N2O	Pwdr	128,9	191				2	
1254	Methyl-1-propene-1-one, 2-; (Dimethylketene)	598-26-5	DSL289	70,09	ppm	Y	2,86	(CH3)2C=C=O	L	-97,5	34				3	Toxicity based on ketene
1255	Methyl-2-chloroacrylate	80-63-7	MIF800	120,54	ppm	Y	4,93	C4H5ClO2	L		140	12	25	1.189 @ 20 C	2	Added
1256	Methyl-2-hexanone, 5-: (Methyl isoamyl ketone)	110-12-3	MKW450	114,21	ppm	N	4,67	C7H14O	L	-73,9	144			0,8132	3	T-2 changed.
1257	Methyl-3-pentene-2-one, 4-; (Mesityl oxide)	141-79-7	MDJ750	98,16	ppm	Y	4,01	C6H10O	L	-59	130	10	26	0,8539	3	
1258	Methyl-4-pentene-2-one, 4-	3744-02-3	Used MDJ750	98,14	ppm	Y	4,01	C6H10O	L	-72,6	124,2			0,8411	3	Based on mesityl oxide (CASRN 141-79-7)

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Table 1: Revision 19 of Chemicals for which TEELs have been derived. with some physicochemical data

No.	Chemical Compound	CAS Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity concentration dependent	ppm to mg/m^3 conversion factor	Molecular formula	State at 25oC	MP (FP) oC	BP °C	Vapor Pressure mm Hg	Vapor Pressure T (°C)	SG	HR	Comments
1259	Methyl-5-nitroaniline, 2-; (5-Nitro-o-toluidine; Benzenamine, 2-methyl-5-nitro-)	99-55-8	NMP500	152,17	mg/m3	N	6,22	C7H8N2O2	S	107		0,000013	20		3	
1260	Methyl-5-vinyl-pyridine, 2-	140-76-1	MQM500	119,18	mg/m3	N	4,87	C8H9N	L		181	1,7	25	0.98 @ 20 C	3	Added
1261	Methylal; (Dimethoxymethane)	109-87-5	MGA850	76,11	ppm	N	3,11	C3H8O2	L	-104,8	42,3	330	20	0,864	3	
1262	Methylaniline, n-	100-61-8	MGN750	107,17	ppm	N	4,38	C7H9N	L	-57	194-197			0,989	3	
1263	Methylaziridine, 1-	1072-44-2	N.I.S.	57,11	ppm	N	2,33	C3-H7-N	L		27,5			0.7572 @ 19 C		Added. RTECS LCIo > 2000 mg/m3, listed in H&N and HC&P, no toxicity data **SAR**
1264	Methylbutanamide, 3-; (Isovaleramide)	541-46-8	N.I.S.	101,15	mg/m3	N	4,13	C5H11NO	S	137	226					T-3 uses 'iv' data T-0, T-1, T-2 changed.
1265	Methylcellulose	9004-67-5	MIF760		mg/m3	N		[Unspecified]	S fibr						3	T-3 uses 'ip' data
1266	Methylchlorodisilane; (Chloromethyldisilane)	68937-17-7	N.I.S.	110,75	ppm	Y	4,53	CH7ClSi2								CASRN in TSCA, no useful data. Toxicity assumed. Added
1267	Methylcholanthrene 3-	56-49-5	MIJ750	268,37	mg/m3	N	10,97	C21H16	S	180				1,28	3	T-2 uses 'ip' data T-3 uses 'ip' data All Ts changed.
1268	Methylcyclohexane	108-87-2	MIQ740	98,21	ppm	N	4,01	C7H14	L	-126,4	100,3	40	22	0,7864	3	
1269	Methylcyclohexanone	1331-22-2	MIR250	112,19	ppm	Y	4,59	C7H12O	L	-14	160-170			0,925	3	
1270	Methylcyclohexanone, 2-; (o-Methylcyclohexanone)	583-60-8	MIR500	112,19	ppm	Y	4,59	C7H12O	L	-14	165,1			0,92	3	
1271	Methylene bis(2-chloroaniline), 4,4'-; (MBOCA)	101-14-4	MJM200	267,17	ppm	N	10,92	C13H12Cl2N2	S						3	T-2 changed.
1272	Methylene bis(4-isocyanatocyclohexane), 1,1'-	5124-30-1	MJM600	262,39	ppm	Y	10,72	C15H22NO2	L						3	
1273	**Methylene chloride**	75-09-2	MJP450	84,93	ppm	Y	3,47	CH2Cl2	L	-95	40	350	20	1,326	3	**ERPG-1, -2, -3**
1274	**Methylene diphenyl diisocyanate (Diphenylmethane diisocyanate; MDI)**	101-68-8	MJP400	250,27	mg/m3	Y	10,23	C15H10N2O2	S	37	194-9	0,001	40	1,44	3	**ERPG-1, -2, -3**
1275	Methylenedianiline, 4,4'-	101-77-9	MJQ000	198,29	ppm	N	8,10	C13H14N2	S	93	398	0			3	
1276	Methylethyl hydroperoxide, 1-; (Isopropyl hydroperoxide)	3031-75-2	IPI000	76,09	mg/m3	Y	3,11	(CH3)2 CHOOH	S		107-109				3	Based on Isopropylbenzenehydroperoxide
1277	Methylfuran, 2-	534-22-5	MKH000	82,11	ppm	Y	3,36	C5-H6-O	L	-88,7	63,7	139	20	0.827 @ 20 C	3	Added
1278	Methylheptane, 4-	589-53-7	N.I.S. etc.	114,23	ppm	N	4,67	C8H18	L	-121	117,7			0.7046 @ 20 C		Listed in H&N and HC&P, no toxicity data; could not confirm Intertox TLV-TWA. Added
1279	Methyllactic acid, 2-; (Ethyl 2-hydroxyisobutyrate)	80-55-7	ELH700	132,18	mg/m3	N	5,40	C6H12O3	L						2	
1280	Methyllactonitrile 2-	75-86-5	MLC750	85,12	mg/m3	Y	3,48	C4H7NO	L	-20	82 @ 23mm			0,932	3	T-2 changed.
1281	Methylmercuric dicyanamide	502-39-6	MLF250	298,72	mg/m3	Y	12,21	C3H6HgN4	S	156		0,00003	25		3	Added
1282	Methylnaphthalene, 1-	90-12-0	MMB750	142,21	mg/m3	N	5,81	C11H10	L	-22	241			1,0202	2	
1283	Methylnaphthalene, 2-	91-57-6	MMC000	142,21	mg/m3	N	5,81	C11H10	S	37-38	241,1			1,0058	2	
1284	Methylnitrosopiperidine, 3-; (Piperidine, 3-methyl-1-nitroso-)	13603-07-1	MMY750	128,00	ppm	N	5,23	C6-H12-N2-O							2	Added
1285	Methylphenol, 2-; (o-Cresol)	95-48-7	CNX000	108,15	ppm	Y	4,42	C7H8O	S	30	191	1	38,2	1.05 @ 20/4	3	T-2 uses 'sk' data T-2 changed.
1286	Methylphenol, 3-; (m-Cresol)	108-39-4	CNW750	108,15	ppm	Y	4,42	C7H8O	L	10,9	202,8	1	52	1.04 @ 22/4	3	T-2 changed
1287	Methylphenol, 4-; (p-Cresol)	106-44-5	CNX250	108,15	ppm	Y	4,42	C7H8O	S	35,5	201,8	1	53	1.0341 @ 20/4	3	T-2 uses 'sk' data T-2 changed.
1288	Methylphenylthiourea, 2-; (o-Tolyl thiourea)	614-78-8	THF250	166,26	mg/m3	N	6,80	C8H10N2S	S	151-152		0,000002	25		3	Added

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1289	Methylphosphonothioic acid-o-(4-nitrophenyl)-o-phenyl ester	2665-30-7	MOB699	309,29	mg/m3	N	12,64	C13H12NO4PS	L		400	0,00001	25		3	Added
1290	Methylphosphonothioic acid-o-ethyl o-(p-(methylthio)phenyl)ester.	2703-13-1	MOB599	262,34	mg/m3	N	10,72	C10H15O2PS2	L		298	0,0001	25		3	Added
1291	Methylpropane, 2-; (Isobutane)	75-28-5	MOR750	58,14	ppm	N	2,38	C4H10	G	-145	-10,2			0,5572	3	REL-TWA added, T-0, T-1, T-2 changed
1292	Methyl-propene, 2- (Isobutene)	115-11-7	IIC000	56,12	ppm	N	2,29	C4H8	L or G	-140,3	-6,9			0,6	3	
1293	Methylpropylnitrosoamine: (1-Propanamine, N-methyl-N-nitroso-)	924-46-9	MNA000	102,16	ppm	Y	4,18	C4-H2-N2-O	L		91 @ 40 mm				3	Added
1294	Methylpyridine, 2-; (2-Picoline)	109-06-8	MOY000	93,14	ppm	Y	3,81	N-CHCH-CHCH-CCH3	L	-70	129	11,2	25	0.950 @ 15 C	3	
1295	Methyl-tert-butyl ether	1634-04-4	MHV859	88,17	ppm	N	3,60	C5H12O2	L	-110	54			0,741	3	T-0, T-1, T-2 changed.
1296	Methyltriacetoxysilane	4253-34-3	MQB500	220,28	mg/m3	N	9,00	C7H12O6Si	S	40,5				1,17	2	
1297	**Methyltrichlorosilane**	75-79-6	MQC500	149,48	ppm	Y	6,11	CH3Cl3Si	L		66,4	280	25	1,27	3	**ERPG-1, -2, -3** T-0 changed.
1298	Metolcarb; (Methylcarbamic acid m-tolyl ester)	1129-41-5	MIB750	165,21	mg/m3	N	6,75	C9H11NO2	S	76-77	360	0,00001	25		3	Added
1299	Mevinphos; (Phosdrin(R))	7786-34-7	MQR750	224,17	mg/m3	Y	9,16	C7H13O6P	S	6,7	280	2,9	25		3	T-3 changed.
1300	Mexacarbate; (4-[Methylamine]-3,5-xylyl-n-methylcarbamate)	315-18-4	DOS000	222,32	mg/m3	N	9,09	C12H18N2O2	S	85		0,000002	25		3	Added
1301	Mica; (Silicates [SCM500])	12001-26-2	MQS250	398,30	mg/m3	N	16,28	[Unspecified]	S	1387				2.6-3.2	2	IDLH not used
1302	Michler's ketone; (4,4'-bis(dimethylamino)-benzophenone)	90-94-8	MQS500	268,39	mg/m3	N	10,97	C17H20N2O	S	179	>360 decom				3	
1303	Mineral fibers, fine	z-0052	N.I.S. etc.		mg/m3	N		[Unspecified]	S							
1304	Mineral oil, white	8042-47-5	MQV875		mg/m3	N		[Unspecified]	L						1	T-2 changed.
1305	Mineral oil; (Oil mist [mineral])	8012-95-1	MQV750		mg/m3	Y		[Unspecified]	L					0.83-0.905	2	
1306	Mineral spirits (85% nonane+15% trimethyl benzene=Stoddard solvent)	8052-41-3	SLU500	127,08	mg/m3	Y	5,19	[Unspecified]	L		220-300			1,0	3	
1307	Mirex; (Perchloropentacyclodecane)	2385-85-5	MQW500	545,50	mg/m3	N	22,30	C10Cl12	S		485 dec				3	
1308	Mitomycin C	50-07-7	AHK500	334,37	mg/m3	N	13,67	C15-H18-N4-O5	S	>360	534	0,00001	25		3	
1309	Molybdate orange	12656-85-8	MRC000		mg/m3	N		[Unspecified]	S						3	
1310	Molybdenum	7439-98-7	MRC250	95,94	mg/m3	N	3,92	Mo	S	2626	5560	1	3102	10,2	3	T-0, T-1, T-2 changed.
1311	Molybdenum dioxide	18868-43-4	MRD250	127,94	mg/m3	N	5,23	MoO2	S ins						3	Added
1312	Molybdenum trioxide	1313-27-5	MRE000	143,94	mg/m3	Y	5,88	MoO3	S	795	1155			4,696	3	T-0, T-1, T-2 changed.
1313	Molybdic acid	z-0053	MRC750	161,95	mg/m3	N	6,62	H2-Mo-O4	V						3	Added. Mo compounds, treated as soluble
1314	Molybdic acid, disodium salt	7631-95-0	DXE800	205,92	mg/m3	N	8,42	MoO4-2Na	S	686					3	
1315	Molybdic acid, hexaammonium salt; (Ammonium heptamolybdate)	12027-67-7	ANH600	1163,89	mg/m3	N	47,57	Mo7.O24-6(NH4)	S	90	dec			2,498	3	
1316	Monobutyl phosphite	16456-56-7	MRF500	138,12	mg/m3	N	5,65	C4H11O3P	L						2	
1317	Monochloroamine; (Chloramide)	10599-90-3	CDO750	51,48	ppm	N	2,10	ClH2N	L	-66					2	
1318	Monochloropentafluoroethane; (CFC-115)	76-15-3	CJI500	154,47	ppm	N	6,31	C2ClF5	G	-106	-37,7			1.5678 @ -42 C	1	

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1319	Monocrotophos	6923-22-4	MRH209	223,19	mg/m3	N	9,12	C7H14NO5P	S	54-55	125	0,000007	25	1.22 @ 20 C	3	bp = 430 C in "Green Book". Added
1320	**Monomethylamine; (Methylamine)**	74-89-5	MGC250	31,07	ppm	Y	1,27	CH3.NH2	G	-93,3	-6,1	>760		0,662	3	**ERPG-1, -2, -3**
1321	Monomethylhydrazine; (Methyl hydrazine)	60-34-4	MKN000	46,09	ppm	Y	1,88	CH3.NH.NH2	L	-52,2	87,8	38	20	0,874	3	T-2 changed
1322	Monosodium titanate	60704-88-3	TGG500	102,87	mg/m3	N	4,20	NaTiO2	S							MSDS #18858-00 CASRN 12034-36-5 TSCA has MF = Na.H-O5-Ti2
1323	Morpholine	110-91-8	MRP750	87,14	ppm	Y	3,56	C4H9NO	L	-4,9	128,9	10	23	1,007	3	
1324	Muscimol; (5-Aminomethyl-3-isoxyzole)	2763-96-4	AKT750	114,12	mg/m3	N	4,66	C4H6N2O2	S	174-176		0,00001	25		3	Added
1325	Myristic acid (tetradecanoic acid), butyl ester	110-36-1	MSA300	284,54	ppm	Y	11,63	C18-H36-O2							1	rat oral LD50 > 8 g/kg Added
1326	Myristic acid, isopropyl ester; (Tetradecanoic acid, isopropyl; Isopropyl myristate),	110-27-0	IQN000	270,46	mg/m3	Y	11,05	C17-H34-O2	L	~3	192.6 @ 20 mm	9,4E-05	25	0.8532 @ 20 C	1	Added
1327	Nabumetone; (Relafen, or 4-[6-methoxy-2-napthyl]-2-butanone)	42924-53-8	MFA300	228,31	mg/m3	N	9,33	C15H16O2	S	80					2	
1328	Naphtha (coal tar)	8030-30-6	NAH600	110,00	ppm	Y	4,50	C10H9N	S	50	300,8	1	104,3	1,131	3	
1329	Naphtha (Rubber solvent)	64742-89-8	ROU000	97,26	ppm	Y	3,98	C5-C9 petroleum cut	L		38-93			0,6	3	CASRN = 8030-30-6 in SAX & HSDB
1330	Naphtha, hydrotreated heavy	64742-48-9	N.I.S.		mg/m3	N		C6 --> C13	L		65 --> 230					
1331	Naphthalenamine, 1-; (1-Naphthylamine)	134-32-7	NBE700	143,20	mg/m3	N	5,85	C10H8	S	80	217,8	0,08	20	1,162	3	T-2 uses 'ip' data T-0, T-1, T-2 changed.
1332	Naphthalene	91-20-3	NAJ500	128,18	ppm	Y	5,24	C10H9N	S	80,1	217,9	1	52,6	1,162	3	
1333	Naphthaleneacetamide, 1-	86-86-2	NAK000	185,24	mg/m3	N	7,57	C12H11NO	S		181subl				2	
1334	Naphthenic acid, lead salt	61790-14-5	NAS500	1578,52	mg/m3	N	64,52	C7H12O2.xPb	L	~0					3	For given MW, x = 7 T-2 changed.
1335	Naphthylamine, beta-	91-59-8	NBE500	143,20	mg/m3	N	5,85	C10H6O2	S	125-126				1,422	3	
1336	Naphthylthiourea, alpha- (ANTU)	86-88-4	AQN635	202,29	mg/m3	N	8,27	C11H10N2S	S	198	400	0,000001	25		3	
1337	Naptha (petoleum), heavy catalytic cracked	64741-54-4	NAQ520		mg/m3	Y		[Unspecified]	L		149-216			0.862- 0.892	1	
1338	Napthoquinone, 1,4-	130-15-4	NBA500	158,16	mg/m3	N	6,46	C10-H6-O2	S		125-126			1,422	3	
1339	Neodecanoic acid	26896-20-8	NBW500	172,30	mg/m3	N	7,04	C10H20O2	L						2	
1340	Neodymium (III) chloride	10024-93-8	NBY000	250,59	ppm	Y	10,24	Cl3Nd	G	7	16				3	T-3 uses 'ip' data All Ts changed.
1341	Neodymium bromide	13536-80-6	N.I.S.	383,95	mg/m3	N	15,69	NdBr3	S	684	540? HC@P				3	
1342	Neodymium fluoride	13709-42-7	N.I.S.	201,24	mg/m3	N	8,22	Nd.F3	S	1377	2300			6,51		Fluoride IDLH and HC&P data. Added
1343	Neodymium hydroxide	16469-17-3	N.I.S.	195,26	mg/m3	N	7,98	Nd(OH)3	S							Added. TSCA listed, no toxicity data. **SAR**
1344	Neodymium nitrate	10045-95-1	NCB000	330,27	mg/m3	N	13,50	N3O9.Nd	S						3	
1345	Neodymium nitrite	z-0054	N.I.S. etc.	282,23	mg/m3	N	11,54	Nd(NO2)3	S							Added. No listing and no toxicity data found. **SAR**
1346	Neodymium(III) oxide	1313-97-9	NCC000	336,48	mg/m3	N	13,75	Nd2-O3	S	2233	3760			7,24	1	Added. Rat oral LD50 > 5 g/kg
1347	Nickel	7440-02-0	NCW500	58,71	mg/m3	N	2,40	Ni	S	1455	2730	1	1810	8,9	3	
1348	Nickel carbonyl	13463-39-3	NCZ000	170,75	ppm	N	6,98	Ni.(CO)4	L	-25	43,3	315	20	1.3185 @ 17C	3	T-1, T-2, T-3 changed.

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1349	Nickel chloride; (Nickelous chloride)	7718-54-9	NDH000	129,61	mg/m3	N	5,30	Ni.Cl2	S deliq	1001 sealed tube	973 sublime			3,51	3	T-3 changed.
1350	Nickel cyanide	557-19-7	NDB500	110,75	mg/m3	N	4,53	Ni.C2N2	S	>200				2,393	3	PEL-TWA ignored T-3 changed.
1351	Nickel formate	3349-06-2	NDB000	184,69	mg/m3	Y	7,55	(HCOO)2Ni.2H2O	S					2,15		T-3 changed.
1352	Nickel oxalate (liquids)	z-0055	NDB000	146,71	mg/m3	N	6,00	NiC2O4	L							Added
1353	Nickel oxalate (solids)	z-0056	NDB000	146,71	mg/m3	N	6,00	NiC2O4	S							Added
1354	Nickel oxide; (Nickel(II) oxide)	1313-99-1	NDF500	74,71	mg/m3	N	3,05	NiO	S	1900				7,45	3	T-2, T-3 changed.
1355	Nickel sulfate hexahydrate; (Nickel(II) sulfate hexahydrate)	10101-97-0	NDL000	262,89	mg/m3	N	10,74	NiSO4.6H2O	S	103 loses water				2,031	3	T-3 changed.
1356	Nickel sulfate; (Nickel(II) sulfate)	7786-81-4	NDK500	154,77	mg/m3	Y	6,33	O4S.Ni	S	840				3,68	3	T-3 changed.
1357	Nickel(II) chloride hexahydrate	7791-20-0	NDA000	237,73	mg/m3	N	9,72	Cl2Ni.6H2O	S deliq	subl	987	1	671	3,55	3	T-2, T-3 changed.
1358	Nickel(II) hydroxide; (Nickelous hydroxide)	12054-48-7	NDE000	92,73	mg/m3	N	3,79	Ni(OH)2	S	230 dec				4,1	3	SAX has CASRNs of nickelous and nickelic reversed. All Ts changed.
1359	Nickel(II) nitrate hexahydrate	13478-00-7	NDG500	290,85	mg/m3	N	11,89	N2O6Ni.6H2O	L	56,7	136,7			2,05	2	T-2, T-3 changed.
1360	Nickel(II) nitrate; (Nickelous nitrate)	13138-45-9	NDG000	182,73	mg/m3	Y	7,47	N2O6.Ni	S deliq	56,7	136,7			2,05	3	T-3 changed.
1361	Nickel(II) nitrite	17861-62-0	NDG550	150,70	mg/m3	N	6,16	Ni.(NO2)2	S						3	Added
1362	Nickel(II) phosphate	10381-36-9	NDB000	366,01	mg/m3	N	14,96	Ni3.(PO4)2	S						3	MW = 366.01272. Added
1363	Nickel(III) hydroxide; (Nickelic hydroxide)	12125-56-3	NDE010	109,74	mg/m3	N	4,49	Ni(OH)3	S	230 dec				4,15	3	CASRN = 12125-56-3 is Ni(OH)3; 12054-48-7 is Ni(OH)2; 11113-74-9 is Ni.OH, but databases differ. Ni.OOH (Ni oxy OH) not found All Ts changed.
1364	Nicotine salts; (d1-beta-Nicotine; DL-Nicotine)	22083-74-5	N.I.S.	417,48	mg/m3	N	17,06	C10-H14-N2	S	-79	247	0,038	25	1.0097 @ 20 C		T-0, T-1 changed.
1365	Nicotine Sulfate	65-30-5	NDR500	418,56	mg/m3	N	17,11	C20H26N4.O4S	S			0,00001	25	1.15 @ 20 C	3	Added
1366	Nicotine; (Pyridine, (S)-3-(1-methyl-2-pyrrolidinyl)-)	54-11-5	NDN000	162,26	mg/m3	N	6,63	C10H14N2	L	-79	247,3	0.038/1	25/61.8	1.0092 @ 20 C	3	
1367	Niobium chloride	10026-12-7	NEA000	270,16	mg/m3	N	11,04	Cl5Nb	S	204.7-209.5	250			2,75	3	
1368	Niobium(V) oxide	1313-96-8	NEA050	265,82	mg/m3	N	10,86	Nb2O5	S	1520				4.5-5	1	T-2 changed.
1369	Nitrapyrin; (2-Chloro-6-[trichloromethyl]pyridine)	1929-82-4	CLP750	230,90	mg/m3	N	9,44	C6H3Cl4N	S	62-63		0,003	22,5		3	
1370	Nitrate(s)	14797-55-8	NED000		mg/m3	N		NO3 or (-NO2) groups	S						2	
1371	**Nitric acid WFNA; (White Fuming)**	7697-37-2	NED500	63,02	ppm	Y	2,58	HNO3	L	-42,2	82,8	48/62	20/25	1,5027	3	**ERPG-1, -2, -3**
1372	Nitric oxide	10102-43-9	NEG100	30,01	ppm	Y	1,23	NO	G	-163,9	-151,7	>760		1.3402 gas	3	T-0, T-1 changed
1373	Nitrilotriacetic acid; (Aminotriacetic acid)	139-13-9	AMT500	191,16	mg/m3	N	7,81	C6H9NO6	S	242	167 @ 13 mm				3	
1374	Nitroaniline, 2-; (o-Nitroaniline)	88-74-4	NEO000	138,13	mg/m3	N	5,65	C6H6N2O2	S	72	284,5	0,00277	25	0.9015 @ 25 C	3	RTECS rat 4 H LC50 > 2529 mg/m3 Added
1375	Nitroaniline, 3-; (m-Nitroaniline)	99-09-2	NEN500	138,13	mg/m3	N	5,65	C6H6N2O2	S	114	306,4	3,6E-05	25	0.9011 @ 25 C	3	Added
1376	Nitroaniline, p-	100-01-6	NEO500	138,14	mg/m3	N	5,65	NO2C6H4 NH2	S	146,1	332,2	<<1	20	1,424	3	T-2 changed.
1377	Nitrobenzene	98-95-3	NEX000	123,12	ppm	N	5,03	C6H5NO2	L	5,6	210,6	0,139		1.205 @ 150	3	
1378	Nitrobiphenyl, 4- ; (p-Nitrobiphenyl)	92-93-3	NFQ000	199,22	mg/m3	N	8,14	C12H9NO2	S	113 - 114	223-224				3	

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1379	Nitrochlorobenzene; (Chloronitrobenzene, m-; 3-Nitrochlorobenzene)	121-73-3	CJB250	157,56	mg/m3	N	6,44	C6H4 ClNO2	S	46	236	0,097	25	1.534 @ 20 C	3	
1380	Nitrocyclohexane	1122-60-7	NFV500	129,18	mg/m3	N	5,28	C6H11NO2	L	-34	205,5	0,35	25	1.0610 @ 20 C	3	Added
1381	Nitrocyclohexene, 1-	2562-37-0	N.I.S. etc.	127,10	ppm	N	5,19	[C6H9-NO2]								Added No toxicity data found. **SAR**
1382	Nitrodiphenylamine, 2-	119-75-5	see NFY000	214,24	mg/m3	Y	8,76	C12H10N2O2	S	75,5				1,36	1	Used p-nitrodiphenylamine (CASRN = 836-30-6)
1383	Nitroethane	79-24-3	NFY500	75,08	ppm	Y	3,07	C2H5NO2	L	-90	114	15,6	20	1,046	3	
1384	Nitrogen	7727-37-9	NGP500	28,02	ppm	N	1,15	N2	G	-210	-195,79			0.808 @-195.8	1	
1385	Nitrogen dioxide	10102-44-0	NGR500	46,01	ppm	Y	1,88	NO2	G>21	-9,4	21,1	720	20	1.491@ 0C	3	
1386	Nitrogen mustard hydrochloride	55-86-7	BIE500	192,53	mg/m3	N	7,87	C5H11Cl2N.ClH	S	119					3	
1387	Nitrogen mustard; (Bis(b-chloroethyl)methylamine)	51-75-2	BIE250	156,07	mg/m3	Y	6,38	C5H11Cl2N C5H11Cl2N ClH	L	1 @ 10mm	86–87 @11mm	0,17		1,09	3	
1388	Nitrogen tetroxide	10544-72-6	NGU500	92,02	ppm	Y	3,76	N2O4	G	-11,2	21,15			1.493 @ 20C	3	
1389	Nitrogen trifluoride	7783-54-2	NGW000	71,01	ppm	Y	2,90	F3N	G	-208,5	-129			1.537 @ -129C	3	
1390	Nitrogen trioxide; (Dinitrogen trioxide)	10544-73-7	N.I.S.	76,01	ppm	Y	3,11	N2O3	G	-101,1	~ 3			1.4 @ 2 C		TSCA, HC&P listed, CASRN 12033-49-7 not found. Added
1391	Nitroglycerin	55-63-0	NGY000	227,11	mg/m3	Y	9,28	C3H5N3O9	L	13	218 expl	1	127m	1,599	3	
1392	Nitromethane	75-52-5	NHM500	61,05	ppm	N	2,50	CH3NO2	L	-29	101	27,8	20	1,1322	3	
1393	Nitrophenol (mixed)	25154-55-6	N.I.S.	139,12	mg/m3	Y	5,69	C6H5NO3	S							Used most toxic isomer Ts.
1394	Nitrophenol, 2-; (o-Nitrophenol)	88-75-5	NIF010	139,12	mg/m3	N	5,69	C6H5NO3	S	45	214,5	1	49,3	1,495	3	
1395	Nitrophenol, 3-; (m-Nitrophenol)	554-84-7	NIE600	139,12	mg/m3	Y	5,69	C6H5NO3	S	97	194 @ 70 mm	0,1	25	1.485 @ 20 C	3	
1396	Nitrophenol, 4-; (p-Nitrophenol)	100-02-7	NIF000	139,12	mg/m3	N	5,69	C6H5NO3	S	113-114	279 dec	2,2	148	1.270 @ 20C	3	
1397	Nitropropane, 1-	108-03-2	NIX500	89,11	ppm	Y	3,64	C3H7NO2	L	-108	132	7,5	20	1,003	3	
1398	Nitropropane, 2-	79-46-9	NIY000	89,11	ppm	N	3,64	CH3CH(NO3) CH3	L	-92,8	120,6	13	20	0,992	3	
1399	Nitropyrene, 1-	5522-43-0	NJA000	247,26	mg/m3	N	10,11	C16H9NO2	S	151-152					3	
1400	Nitropyridine-n-oxide, 4-; (Pyridine, 4-nitro-1-oxide)	1124-33-0	NJA500	140,11	mg/m3	N	5,73	C5H4N2O3	S	159-160					3	
1401	Nitrosodimethylamine	62-75-9	NKA600	74,10	mg/m3	N	3,03	C2H6N2O	L		152			1,005	3	
1402	Nitrosodiphenylamine, p-	156-10-5	NKB500	198,24	mg/m3	Y	8,10	C12H10N2O	S	144-145					3	T-3 uses 'iv' data T-3 changed.
1403	Nitrosodipropylamine; (DPNA)	621-64-7	NKB700	130,22	mg/m3	N	5,32	C6H14N2O							3	
1404	Nitrosomorpholine	59-89-2	NKZ000	116,14	mg/m3	N	4,75	C4H8N2O2	L?						3	
1405	Nitroso-n-methylurea, n-	684-93-5	MNA750	103,10	mg/m3	N	4,21	C2H5N3O2	S	124 dec					3	T-2 uses 'ip' data T-0, T-1, T-2 changed.
1406	Nitrosophenol, p-	104-91-6	NLF200	123,12	mg/m3	N	5,03	C6H5NO2	S	144 dec					3	T-3 uses 'ip' data All Ts changed.
1407	Nitrosotoluene, p-	611-23-4	NLW500	121,15	mg/m3	N	4,95	C7H7NO	S	72,5					2	

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1408	Nitrosyl chloride	2696-92-6	NMH000	65,46	ppm	Y	2,68	ClNO	G	-61,5	-6,4	>760		1.250 L @ 30C	3	Internet data
1409	Nitrotoluene, m-	99-08-1	NMO500	137,15	ppm	N	5,61	C7H7NO2	L	16	231,9	0,27	25	1.1630 @ 15 C	3	
1410	Nitrotoluene, o-	88-72-2	NMO525	137,15	ppm	N	5,61	C7H7NO2	L	-10	222,3	1	50	1.1622 @19/15	3	
1411	Nitrotoluene, p-	99-99-0	NMO550	137,15	ppm	N	5,61	C7H7NO2	S	53-54	238,3	1	53,7	1,286	3	
1412	Nitrous acid	7782-77-6	NMR000	47,02	mg/m3	Y	1,92	HNO2	L						3	OHMTADS states "Corrosive liquid … Highly toxic via inhalation or ingestion". Used HNO3 limits .Added
1413	Nitrous oxide	10024-97-2	NGU000	44,02	ppm	N	1,80	N2.O	G	-90,8	-88,5	>760		1.977 gas	2	
1414	Nonacosane	630-03-5	N.I.S.	408,79	mg/m3	N	16,71	C29.H60	S							
1415	Nonanal	124-19-6	NMW500	142,27	mg/m3	Y	5,81	C9-H18-O	L		190-192			0.820-0.830	2	T-2 uses 'sk' data Added
1416	Nonane (Shell sol 140)	111-84-2	NMX000	128,29	ppm	N	5,24	C9H20	L	-53,7	150,7	10	38	0,718	3	T-1, T-2, T-3 changed.
1417	Nonanenitrile; (1-Octyl cyanide)	2243-27-8	OES300	139,27	ppm	Y	5,69	C9-H17-N	L	-34,2	224,4			0.8178 @ 20 C	2	PEL-TWA for cyanides. Added
1418	Nonanone, 2-	821-55-6	NMY500	142,27	ppm	Y	5,81	C9-H18-O	L	-9	194			0.832 @ 30 C	2	Rat LClo > 3980 mg/m3, and rat oral TDlo inserted. Added
1419	Nonoxynol-4	7311-27-5	N.I.S.	396,57	mg/m3	N	16,21	C23H40O5	L							
1420	Nonyl phenol (branched)	84852-15-3	NNC600	220,39	mg/m3	Y	9,01	C15-H24-O	L						2	
1421	Nonyl phenol (mixed isomers)	25154-52-3	NNC500	220,39	mg/m3	Y	9,01	C9H19C6H4 OH	L	-10	293			0,949	2	
1422	Nonyl phenol, p-	104-40-5	NNC510	220,39	mg/m3	Y	9,01	C15-H24-O	L						2	
1423	Nonylphenol ethoxylate	127087-87-0	N.I.S.	396,63	mg/m3	N	16,21	C23-H40-O5	L							T-2, T-3 changed
1424	Nonylphenoxypolyethoxyethanol	68412-54-4	N.I.S.		mg/m3	N		[Unspecified]	S						2	
1425	Norbormide	991-42-4	NNF000	511,61	mg/m3	N	20,91	C33H25N3O3	S	190-198					3	
1426	Norchlorofluoroepibatidine	z-0057	N.I.S. etc.		mg/m3	Y		[Unknown]	L?						3	T-2 uses 'iv' data T-3 uses 'iv' data All Ts changed.
1427	o-Aminophenol; (Aminophenol, o-)	95-55-6	ALT000	109,14	mg/m3	Y	4,46	C7H7NO	S	173					3	T-2 uses 'ip' data T-0, T-1, T-2 changed.
1428	OctaCDD, 1,2,3,4,6,7,8,9-	3268-87-9	OAJ000	459,72	mg/m3	Y	18,79	C12.Cl8.O2	S	330-332		8E-13	25		3	T-2 uses 'sk' data T-0, T-1 changed.
1429	OctaCDF, 1,2,3,4,6,7,8,9-	39001-02-0	N.I.S.	443,72	mg/m3	N	18,14	C12.Cl8.O	S						3	LC50 based on other CDFs. T-0, T-1, T-2 changed
1430	Octachloronaphthalene	2234-13-1	OAP000	403,70	mg/m3	N	16,50	C10Cl8	S	197.5-198	246-50 @.5mm				3	
1431	Octacosane	630-02-4	N.I.S.	394,77	mg/m3	N	16,13	C28.H58	S		440	<1	20			T-0, T-1 changed
1432	Octadecanoic acid, n-; (Stearic acid)	57-11-4	SLK000	284,54	mg/m3	Y	11,63	C18H36O2	S	69,3	383	1	173,7	0,847	3	T-3 uses 'iv' data T-1, T-2, T-3 changed.
1433	Octadecanol, 1-	112-92-5	OAX000	270,56	ppm	N	11,06	C18-H38-O	S	58	202	2,6E-06	25	0.8124 @ 59 C	3	LDlo deleted and mu implant TDlo inserted. Added
1434	Octafuorocyclobutane; (Cyclooctafluorbutane; Freon C-318)	115-25-3	CPS000	200,03	ppm	N	8,18	C4F8	G	-41,4	-6,04			1.513 @ -21 C	1	Added
1435	Octamethylcyclotetrasiloxane	556-67-2	OCE100	296,68	ppm	Y	12,13	C8-H24-O4-Si4	L	17,5	175			0,9558	1	**SAR** TEELs 10, 30, 50, 500 mg/m3 not used. Added
1436	Octamethyldiphosphoramide; (Octamethylpyrophosphoramide)	152-16-9	OCM000	286,30	mg/m3	N	11,70	C8H24N4O3P2	L	20-21	154 @ 2 mm	0,001	25	1.09 25 C	3	Added
1437	Octanal; (1-Octanol)	124-13-0	OCO000	128,24	mg/m3	Y	5,24	C8-H16-O	L	-23	163,4	1,18	25	0.821 @ 20 C	3	Added

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1438	Octane, n-	111-65-9	OCU000	114,26	ppm	Y	4,67	CH3.(CH2)6.CH3	L		125,8	10	19,2	0,7036	3	T-1, T-2 changed.
1439	Octanedione, 2,7-	3214-41-3	N.I.S. etc.	142,00	mg/m3	N	5,80	C8H14O2	L						3	Toxicity based on octane
1440	Octanenitrile	124-12-9	OCW100	125,24	ppm	Y	5,12	C8-H15-N	L	-45,6	205,2			0.8136 @ 20 C	2	Added
1441	Octanone, 2-	111-13-7	ODG000	128,24	mg/m3	Y	5,24	C8-H16-O	L	-16	172,5			0.820 @ 20 C	3	T-2 uses 'ip' data Added
1442	Octene, 1-	111-66-0	N.I.S.	112,22	mg/m3	N	4,59	C8-H16	L	-102	121	3,7	0	0,71		In HSDB, CHRIS, OHMTADS, TSCA
1443	Octyl alcohol; (n-octanol)	111-87-5	OEI000	130,28	mg/m3	Y	5,32	C8H18O	L	-16,7	194,5			0,827	3	
1444	Octyl(phenyl)-N,N-diisobutyl carbamoylmethylphosphine oxide	83242-95-9	N.I.S. etc.	210,32	mg/m3	N	8,60	C16-H18								
1445	o-Ethyl s,s-dipropylphosphorodithioate; (Mocap PC-84)	13194-48-4	EIN000	242,36	mg/m3	N	9,91	C8-H19-O2-P-S2								
1446	Oil gas; (Oil fog)	z-0058	OGI350	11,90	ppm	N	0,49	SAX mixture	G						3	4.2% illuminants, 10.4% CO, 47.6% H, 27.0% CH4, 4.6% CO2, 5.8% N, 0.4% O2. Added
1447	**Oleum; (fuming sulfuric acid)**	8014-95-7	SOI520	178,14	mg/m3	Y	7,28	H2O4S.O3S	L						3	Sulfuric acid ERPGs apply. Added
1448	Onyxide; (s-Triazine-1,3,5(2H,4H,6H)-triethanol)	4719-04-4	THR820	219,33	mg/m3	N	8,96	C9H21N3O3	S						2	
1449	Organorhodium complex (PMN–82–147)	z-0059	N.I.S. etc.	300,00	mg/m3	N	12,26	[Unspecified]	S							No toxicity data found. MW assumed, insol Rh conc. limits used. Added
1450	Osmium tetroxide	20816-12-0	OKK000	254,20	ppm	Y	10,39	O4Os	S	39,5	130 subl	10	26	4,906	3	All Ts changed.
1451	Ouabain	630-60-4	OKS000	584,73	mg/m3	N	23,90	C29H44O12	S	190					3	T-3 uses 'iv' data T-3 changed.
1452	Oxalic acid - anhydrous; (Ethanedioic acid)	144-62-7	OLA000	90,04	mg/m3	Y	3,68	(COOH)2	S	187	dec	0,54	105	1,900	3	
1453	Oxalic acid - dihydrate	6153-56-6	N.I.S.	126,10	mg/m3	Y	5,15	(COOH)2.. 2H2O	S	101,5	dec			1,653	3	
1454	Oxamyl	23135-22-0	DSP600	219,29	mg/m3	N	8,96	C7H13N3O3S	S	100-102	310	0,00023	25	0.98 @ 25 C	3	Added
1455	Oxathiane, 1,4-	15980-15-1	OLY000	104,18	ppm	Y	4,26	C4H8OS	L	-17	148,7			1,117	3	
1456	Oxime 2-butanone; (Ethyl methyl ketoxime)	96-29-7	EMU500	87,14	ppm	N	3,56	CH3-C(NOH)-CH2-CH3	L	-29,5	152			0,932	3	
1457	Oxirane, ethenyl-; (3,4-Epoxy-1-butene)	930-22-3	EBJ500	70,10	ppm	N	2,87	C4-H6-O	L	-135	67			0,869	3	T-2 uses 'sk' data T-3 uses 'ip' data Added.
1458	Oxydiacetic acid; (Oxodiacetic acid)	110-99-6	ONQ100	134,10	mg/m3	N	5,48	C4H6O5							2	
1459	Oxydiphenoxarsine, 10,10'-; (Phenoxyarsine oxide)	58-36-6	OMY850	502,24	mg/m3	Y	20,53	C24H16As2O3	S	184-185	380 dec	0,00001	25	1.40-1.42	3	Added
1460	Oxydisulfoton	2497-07-6	OQS000	290,42	mg/m3	N	11,87	C8H19O3PS3	L		330	0,0035	25		3	Added
1461	Oxygen (liquid)	7782-44-7	OQW000	32,00	ppm	Y	1,31	O2	G	-218,4	-182,96	760	-183	1.14 @ -183 C	3	
1462	Oxygen difluoride; (Fluorine monoxide)	7783-41-7	ORA000	54,00	ppm	Y	2,21	F2O	G	-223,8	-144,8	760	-144,6	1.90 @ -224 C	3	Added
1463	Ozone	10028-15-6	ORW000	48,00	ppm	Y	1,96	O3	G	-192,8	-111,7	>760		2.144 gas	3	
1464	Palladium	7440-05-3	PAD250	106,40	mg/m3	N	4,35	Pd	S	1554	2800	~0	20	12,02	2	
1465	Palladium chloride	7647-10-1	PAD500	177,30	mg/m3	Y	7,25	Cl2Pd	S	678-680 (dec.)				4	3	
1466	Palladium hydroxide	12135-22-7	N.I.S. etc	140,43	mg/m3	N	5,74	Pd(OH)2	S							Added. TSCA CASRN. No toxicity data **SAR**
1467	Paraffin, n-	8002-74-2	PAH750		mg/m3	Y		CnH2n=2	varies	47-65				~0.90	2	

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1468	Paraffins, petroleum, normal C5-C20	64771-72-8	N.I.S. etc.	189,00	ppm	Y	7,72	CnH2n=2	Swax		225-243	25,8	38	0.764 @15.6C	1	
1469	Paraformaldehyde	30525-89-4	PAI000		mg/m3	Y		(CH2O)n	S	163-165	decomp			1.46 @ 15C	3	
1470	Paraldehyde	123-63-7	PAI250	132,18	mg/m3	N	5,40	C6H12O3	L	12,6	124,4			0,9943	3	
1471	Paraquat	4685-14-7	PAI990	186,28	mg/m3	N	7,61	C12-H14-N2--C12-H14-N2-2Cl	S	300					3 3	
1472	Paraquat dichloride; (Paraquat hydrochloride)	1910-42-5	PAJ000	257,18	mg/m3	N	10,51	C12H14N2.2Cl	S	300					3	T-1 changed
1473	Paraquat methosulfate; (Paraquat dimethyl sulphate)	2074-50-2	PAJ250	408,48	mg/m3	N	16,70	C12H4N2-2CH3-SO4	S	300		0,0000001	25		3	T-0, T-1, T-2 changed.
1474	Parathion	56-38-2	PAK000	291,28	mg/m3	N	11,91	(C2H5O)2-P-S-OC6H4-NO2	L	6	375	0,00004	20	1,26	3	
1475	Paris Green; (Cupric acetoarsenite)	12002-03-8	COG500	1013,78	mg/m3	N	41,43	C4-H6-As6-Cu4-O16	S			0,00001	25		3	Added
1476	Particulate material (PNOS)	z-0060	N.I.S. etc.		mg/m3	N		[Unspecified]	S						1	
1477	PBX (mixture of HMX and nitrocellulose)	z-0061	N.I.S. etc	450,00	mg/m3	N	18,39	.25HMX+.75CTN	S						3	Assumed 25% HMX & 75% CTN mixture. Original CASRN incorrect, see Cyclotol. Added
1478	Pentaborane	19624-22-7	PAT750	63,14	ppm	Y	2,58	B5H9	L	-46,6	60	170	25	0.61 @ 0 C	3	Added
1479	Pentachlorobenzene	608-93-5	PAV500	250,32	mg/m3	N	10,23	C6HCl5	S	85-86	275-7			1.834@ 170	2	
1480	Pentachlorobenzo-p-dioxin, 1,2,3,7,8-	40321-76-4	PAV850	356,40	mg/m3	N	14,57	C12H3Cl5O2	S	240-241					3	
1481	Pentachlorodibenzofuran, 1,2,3,7,8-	57117-41-6	PAV860	340,40	mg/m3	N	13,91	C12.H3.Cl5.O	S						D	
1482	Pentachlorodibenzofuran, 2,3,4,7,8-	57117-31-4	PAW100	340,40	mg/m3	N	13,91	C12H3Cl5O	S						3	
1483	Pentachloroethane	76-01-7	PAW500	202,28	mg/m3	N	8,27	C2HCl5	L	-29	161-2			1,6728	3	
1484	Pentachloronitrobenzene	82-68-8	PAX000	295,32	mg/m3	N	12,07	C6Cl5NO2	S	146	328	0,013	25	1,718	3	T-2 changed.
1485	Pentachlorophenol	87-86-5	PAX250	266,32	mg/m3	Y	10,88	C6Cl5OH	S	190	308,9	0,001	20	1,978	3	
1486	Pentadecane	629-62-9	PAY750	212,47	ppm	N	8,68	C15H32	L	10	270,5			0.770 @ 20 C	2	T-3 uses 'iv' data Added
1487	Pentadecanoic acid	1002-84-2	PAZ000	242,45	ppm	N	9,91	C15-H30-O2	S	53	257 @ 100 MM				3	T-3 uses 'iv' data Added
1488	Pentadecylamine	2570-26-5	PBA000	227,49	mg/m3	Y	9,30	C15H33N	S	36,5	307,6	0,0003	25		3	Added
1489	Pentaerythritol	115-77-5	PBB750	136,17	mg/m3	N	5,57	C5H12O4	S	262				1,38	3	
1490	Pentaerythritol tetranitrate	78-11-5	PBC250	316,17	mg/m3	N	12,92	C(CH2O NO2)4	S	138-140	205-215 expl			1,773	3	T-3 uses 'ip' data
1491	Pentane, n-	109-66-0	PBK250	72,17	ppm	Y	2,95	C5H12	L	-129,8	36,1	400	18,5	0,626	3	
1492	Pentanenitrile	110-59-8	VAV300	83,15	ppm	N	3,40	C5-H9-N	L	-96,2	141,3			0.8008 @ 20 C	3	Rat oral TDlo inserted. Added
1493	Pentanone, 2-	107-87-9	PBN250	86,15	ppm	Y	3,52	C5H10O	L		102			0.801-0.806	3	
1494	Pentatriacontane	630-07-9	N.I.S.	492,95	mg/m3	N	20,15	C35.H72	S							In H&N only
1495	Pentene, 1-	109-67-1	N.I.S.	70,13	ppm	N	2,87	C5H10	L	-165,2	29,9	635	25	0.6405 @ 20 C		HSDB toxicity data
1496	Pentobarbital sodium; (Nembutal sodium)	57-33-0	NBU000	249,30	mg/m3	N	10,19	C11H18N2O3.Na	L	130					3	
1497	Perchloric acid	7601-90-3	PCD250	100,46	ppm	Y	4,11	ClHO4	L	-112	19 @ 11mm			1,768	3	

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Table 1: Revision 19 of Chemicals for which TEELs have been derived, with some physicochemical data

No.	Chemical Compound	CAS Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity concentration dependent	ppm to mg/m^3 conversion factor	Molecular formula	State at 25oC	MP (FP) oC	BP °C	Vapor Pressure mm Hg	Vapor Pressure T (°C)	SG	HR	Comments
1498	**Perchloroethylene; (Tetrachloroethylene)**	127-18-4	PCF275	165,82	ppm	Y	6,78	Cl2C=CCl2	L	-18,9	121,1	14	20	1.6311@ 150	3	**ERPG-1, -2, -3**
1499	Perchloromethyl mercaptan	594-42-3	PCF300	185,87	ppm	Y	7,60	CCl4S	L		149dec	3	20	1,7	3	T-2 changed.
1500	Perchloryl fluoride; (Chlorine oxyfluoride)	7616-94-6	PCF750	102,45	ppm	Y	4,19	ClFO3	G	-146	-46,8			1.434 (L)	2	Added
1501	**Perfluoroisobutylene; (Octafluoro-sec-butene)**	382-21-8	OBM000	200,04	ppm	Y	8,18	(CF3)2. C=CF2	G		7	>760		1.592 @ 0 C	3	**ERPG-2, -3,** T-0, T-1 changed
1502	Perlite (fused NaKAl silicate, < 1% quartz)	93763-70-3	PCJ400		mg/m3	N		NaKAlSiOx	S amor					0,13	1	
1503	Permafluor E+	z-0062	N.I.S. etc.		mg/m3	N		Mixture	L	-50	150	5		0,9		Mixture ex MSDS
1504	Permafluor-V (85+% toluene)	z-0063	N.I.S. etc.	85,00	ppm	N	3,47	Mixture	L			22	20	0,86	3	Mixture PPO, bis-MSB is 85-90% toluene, 10% methanol
1505	Peroxyacetic acid; (Peracetic acid)	79-21-0	PCL500	76,06	ppm	Y	3,11	CH3.C(O)O OH	L	0,1	105			1.15 @ 20C	3	
1506	Peroxydicarbonic acid, disodium salt	3313-92-6	N.I.S.	168,02	mg/m3	N	6,87	C2H2O6.2Na								
1507	Petroleum 50 thinner; (Paint thinner)	z-0064	PCT500	130,00	ppm	Y	5,31	[Unspecified]	L						1	
1508	Petroleum asphalt (see ARO500)	8052-42-5	PCR500		mg/m3	Y		[Unspecified]	S						2	Same CASRN as Asphalt (ARO500), different toxicity. T-2 changed.
1509	Petroleum distillates; (see PCR250)	8002-05-8	PCS250	97,87	mg/m3	Y	4,00	[Unspecified]	L						2	Same CASRN as Petroleum (PCR250), different toxicity. Added
1510	Petroleum mineral oil; (... extracts, light paraffinic distillate solvent)	64742-06-9	N.I.S.		mg/m3	N		[Unspecified]								T-1 changed
1511	Petroleum spirits; (VM & P Naphtha)	8032-32-4	PCT250	111,73	ppm	Y	4,57	[Unspecified]	L	<-73	40-80			0.635-0.660	3	
1512	Petroleum spirits; (Mineral Spirits, Naphtha)	64742-88-7	N.I.S.		mg/m3	N		C9 through C12	L		140-220					Added. In RTECS and TSCA
1513	Petroleum spirits; (Mineral spirits, Soltrol)	64475-85-0	MQV900	97,26	ppm	N	3,98	[Unspecified]	L						1	All Ts changed.
1514	Petroleum; (Petroleum crude oil; see also PCS 250)	8002-05-9	PCR250	97,87	mg/m3	N	4,00	[Unspecified]						0.78 - 0.97	3	Same CASRN as PCS250, different toxicity. T-0, T-1, T-2 changed.
1515	Phenacetin; (p-acetophenetidide)	62-44-2	ABG750	179,24	mg/m3	N	7,33	C10H13NO2	S	154					3	
1516	Phenaglycodol; (Ultran, or 2-p-chlorophenyl-3-methyl-2,3-butanediol)	79-93-6	CKE750	214,71	mg/m3	N	8,78	C11H15ClO2	S						3	
1517	Phenanthrene	85-01-8	PCW250	178,24	mg/m3	N	7,28	C14H10	S	100	339	1	118,3	1,179	3	T-2 uses 'sk' data T-0, T-1, T-2 changed.
1518	Phenanthroline ferrous sulfate o-complex	14634-91-4	N.I.S.	692,56	mg/m3	N	28,31	C36-H24-Fe-N6-O4-S	S							
1519	**Phenol**	108-95-2	PDN750	94,12	ppm	Y	3,85	C6.H5.OH	S	42,8	181,7	0,4	20	1,072	3	**ERPG-1, -2, -3**
1520	Phenolphthalein	77-09-8	PDO750	318,34	mg/m3	N	13,01	C20H14O4	S	258-262				1,299	2	
1521	Phenyl dichloroarsine; (Dichlorophenylarsine)	696-28-6	DGB600	222,93	mg/m3	Y	9,11	C6H5AsCl2	L	-15,6	254,4	0,021	20	1.654 @ 20 C	3	Added
1522	Phenyl mercury acetate; (Acetylphenylmercury)	62-38-4	ABU500	336,75	mg/m3	Y	13,76	C8H8HgO2	S	149-152					3	T-1 changed
1523	Phenyl-1,2-propanedione, 1-	579-07-7	PGA500	148,16	mg/m3	N	6,06	C9H8O2	L	<20	222			1.007 @ 20/4	3	
1524	Phenylazo)aniline, p-(	60-09-3	PEI000	197,26	mg/m3	N	8,06	C12H11N3	S	126	360				3	T-3 uses 'ip' data T-3 changed.
1525	Phenylboric Acid; (Benzeneboronic acid)	98-80-6	BBM000	121,94	mg/m3	N	4,98	C6H7BO2	S	216					3	
1526	Phenylene diisocyanate, 1,4-	104-49-4	PFA300	160,14	mg/m3	Y	6,55	C8H4N2O2	S						3	
1527	Phenylenediamine dihydrochloride, 1,2-	615-28-1	PEY600	181,08	mg/m3	N	7,40	C6H8N2.2ClH	S						3	T-3 uses 'ip' data T-2, T-3 changed.

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No.	Chemical Compound	CAS Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity concentration dependent	ppm to mg/m^3 conversion factor	Molecular formula	State at 25oC	MP (FP) oC	BP °C	Vapor Pressure mm Hg	Vapor Pressure T (°C)	SG	HR	Comments
1528	Phenylenediamine dihydrochloride, 1,4-	624-18-0	PEY650	181,08	mg/m3	N	7,40	C6H8N2.2ClH	S						3	
1529	Phenylenediamine, 1,2-; (o-Phenylenediamine)	95-54-5	PEY250	108,16	mg/m3	N	4,42	C6H8N2	S/L	104	257				3	T-2 changed.
1530	Phenylenediamine, 1,3-; (m-Phenylenediamine)	108-45-2	PEY000	108,16	mg/m3	N	4,42	C6H8N2	S/L	65	287	1	99,8	1,139	3	T-2 changed.
1531	Phenylenediamine, p-	106-50-3	PEY500	108,16	mg/m3	Y	4,42	C6H8N2	S	146	267				3	
1532	Phenylhydrazine	100-63-0	PFI000	108,16	ppm	N	4,42	C6H8N2	L	19,6	243,5	0,026	25	1.0978 @ 20C	3	PEL-TWA REL-C ignored
1533	Phenylhydrazine hydrochloride	59-88-1	PFI250	144,62	mg/m3	N	5,91	C6H8N2.ClH	S/L	250-254	decom				3	T-3 uses 'ip' data
1534	Phenylphenol, 2-; (tert-Butylbenzene)	90-43-7	BGJ250	170,22	mg/m3	Y	6,96	C12H10O	S	56	275			1,217	3	
1535	Phenylphosphine	638-21-1	PFV250	110,10	ppm	N	4,50	C6-H7-P	L		160-161			1.001 @ 16 C	3	Added
1536	Phenylpropanol, 2-; (Dimethylphenylmethanol)	617-94-7	DTN100	136,21	ppm	Y	5,57	C9H12O	S	35-37	202	0,52	37	0.9735 @ 20 C	2	**SAR** TEELs.of 4, 12.5, 100, 200 mg/m3 not used. Added
1537	Phenylsilatrane	2097-19-0	PGH750	251,39	mg/m3	N	10,27	C12H17NO3Si	S	208-209	350	0,00001	25		3	Added
1538	Phenylthiourea; (1-phenyl-2-thiourea)	103-85-5	PGN250	152,23	mg/m3	N	6,22	C7H8N2S	S					1,3	3	
1539	Phenylxylylethane; (PXE)	6196-95-8	N.I.S.	210,32	mg/m3	N	8,60	(C6H5) (C6H3(CH3)2) CHCH3	L					0.983 @ 25 C		
1540	Phorate	298-02-2	PGS000	260,39	mg/m3	Y	10,64	C7H17O2PS3	L	-42,9	290	0,00084	25	1.156 @ 25 C	3	Added
1541	Phosacetim	4104-14-7	BIM000	375,22	mg/m3	N	15,34	C14H13Cl2N2O2PS	S	104-106	400	0,0001	25		3	Added
1542	Phosfolan	947-02-4	PGW750	255,31	mg/m3	N	10,43	C7H14NO3PS2	S	39,5	410	0,0001	25		3	Added
1543	**Phosgene**	75-44-5	PGX000	98,91	ppm	Y	4,04	CO.Cl2	G	-127,8	8,3	>760		1.419 @ 0 C	3	**ERPG-2, -3** T-1 changed.
1544	Phosmet	732-11-6	PHX250	317,33	mg/m3	Y	12,97	C11H12NO4PS2	S	71,9	dec	0,00054	25	1.03 @ 20 C	3	Added
1545	Phosphamidon; (Famfos)	13171-21-6	FAB400	299,72	mg/m3	N	12,25	C10H19ClNO5P	L	-45	350	0,000025	25	1.21 @ 25 C	2	Added
1546	**Phosphine**	7803-51-2	PGY000	34,00	ppm	Y	1,39	PH3	G	-133,9	-87,8	>760		1.529 @ 0 C	3	**ERPG-2, -3**
1547	Phosphonic acid, dioctadecyl ester	19047-85-9	N.I.S.	585,96	mg/m3	N	23,95	C36-H75-O3P	S							Added. TSCA CASRN. No toxicity data **SAR**
1548	Phosphonic acid, tridodecyl ester	3076-63-9	N.I.S.	587,08	mg/m3	N	23,99	C36-H75-O3-P	S							RTECS LD50 > 3160 mg/kg. TSCA also has CASRN 19047-85-9 Added
1549	Phosphoric acid	7664-38-2	PHB250	98,00	mg/m3	Y	4,01	H3.PO4	S	42,2	212,8	0,03	20	1,864	3	
1550	Phosphoric acid dimethyl-p-(methylthio)phenyl ester	3254-63-5	PHD250	248,25	mg/m3	N	10,15	C9H13O4PS	L		300	0,001	25	1.273 @ 21 C	3	Added
1551	Phosphorous pentafluoride	7647-19-0	PHR750	125,97	ppm	Y	5,15	F5P	G	-83	-75				3	Added
1552	Phosphorous trifluoride	7783-55-3	PHQ500	87,97	ppm	Y	3,60	F3P	G	-152	-102				3	Added
1553	Phosphorus (red)	7723-14-0	PHO500	30,97	mg/m3	N	1,27	P	Spwdr	590 @ 43atm	280			2,34	3	T-2 changed
1554	Phosphorus (yellow)	7723-14-1	PHP010	123,88	mg/m3	N	5,06	P4	S	44,1	280	0,03		1,82	3	CASRN adjusted to distinguish from "red"
1555	Phosphorus oxychloride	10025-87-3	PHQ800	153,32	ppm	Y	6,27	Cl3OP	L	1,2	105,1	40	27,3	1.685 @15.5	3	T-1, T-2 changed
1556	Phosphorus pentachloride	10026-13-8	PHR500	208,22	mg/m3	Y	8,51	Cl5P	S	148 dec under	160 subl	1	55,5	3,6	3	
1557	Phosphorus pentasulfide	1314-80-3	PHS000	222,24	mg/m3	Y	9,08	P2S5	Sdel	286-290	514			2,09	3	

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1558	**Phosphorus pentoxide**	1314-56-3	PHS250	141,94	mg/m3	Y	5,80	P2.O5	S	340	360 subl	1	189	2,3	3	**ERPG-1, -2, -3**
1559	Phosphorus trichloride	7719-12-2	PHT275	137,32	ppm	Y	5,61	Cl3P	L	-111,8	76	100	21	1,574	3	T-2 changed
1560	Phosphorus trioxide	1314-24-5	PHT500	110,00	mg/m3	Y	4,50	O3P2	S	23,8	173,1			2.135 @ 21 C	3	Not in RTECS, etc. No toxicity data. LC50 based on HR. Added
1561	Phthalic acid	88-99-3	PHW250	166,14	mg/m3	Y	6,79	C8H6O4	S	210 dec	155			1,59	2	
1562	Phthalic anhydride	85-44-9	PHW750	148,12	mg/m3	Y	6,05	C6H4(CO)2O	S	130,6	295	0,005		1.527 @ 4 C	3	T-2 uses 'ip' data T-1 changed.
1563	Physostigmine	57-47-6	PIA500	275,39	mg/m3	N	11,26	C15H21N3	S	86-87		0,00001	25		3	T-3 uses 'ip' data Added
1564	Physostigmine salicylate(1:1)	57-64-7	PIA750	413,52	mg/m3	N	16,90	C15H21N3O2.C7H6O3	S	184-186	dec	0,00001	25		3	Added
1565	Picric acid	88-89-1	PID000	229,12	mg/m3	Y	9,36	C6H3N3O7	S	121,8	>300 expl			1,763	3	
1566	Picrotoxin	124-87-8	PIE500	602,64	mg/m3	N	24,63	C15H18O7.C15H16O6	S	203-204		0,00001	25		3	T-3 uses 'ip' data Added
1567	Piperazine	110-85-0	PIJ000	86,16	mg/m3	Y	3,52	C4H10N2	S	106	146			1,1	2	
1568	Piperidine	110-89-4	PIL500	85,17	ppm	Y	3,48	C5H11NO	L	-9	106	40	29,2	0,8622	3	T-2 changed.
1569	Pirimifos-ethyl	23505-41-1	DIN600	333,43	mg/m3	N	13,63	C13H24N3O3PS	L	15-18	130 dec	0,00029	25	1.14 @ 20 C	3	Added
1570	Platinum	7440-06-4	PJD500	195,09	mg/m3	N	7,97	Pt	S	1772	3827			21,45	2	
1571	Poly alpha olefin; (Synthetic hydrocarbon mixture, PAO)	68649-12-7	N.I.S.		mg/m3	Y		[Unspecified]	L		401	< 1	20	0,819	1	
1572	Polyamide; (Capron; Poly[iminocarbonylpentamethylene))	25038-54-4	PJY500		mg/m3	N		(C6H11NO)n	S						2	MW = 111 x n
1573	Polychlorinated biphenyl (Aroclor 1016): (Chlorodiphenyl [41% Cl]; Aroclor 1241)	12674-11-2	PJL800		mg/m3	N		41% Cl	L		340-375			1.44 @ 30 C	2	Added
1574	Polychlorinated biphenyl (Aroclor 1016/1242): (Chlorodiphenyl [37% Cl])	z-0065	N.I.S.		mg/m3	N		37% Cl	L		340-375			1.44 @ 30 C	2	Used mean of 41% & 42% Cl Added
1575	Polychlorinated biphenyl (Aroclor 1221); (Chlorodiphenyl (21% Cl))	11104-28-2	PJM000	192,00	mg/m3	N	7,85	21% Cl	L	1	340-375	0,0067	25	1.187 @ 15.5 C	2	
1576	Polychlorinated biphenyl (Aroclor 1232): (Chlorodiphenyl [32% Cl])	11141-16-5	PJM250		mg/m3	N		32% Cl	L		340-375			1.44 @ 30 C	2	Added
1577	Polychlorinated biphenyl (Aroclor 1242); (Chlorodiphenyl (42% Cl))	53469-21-9	PJM500		mg/m3	N		42% Cl	L		340-375				3	
1578	Polychlorinated biphenyl (Aroclor 1248); (Chlorodiphenyl (48% Cl))	12672-29-6	PJM750		mg/m3	N		48% Cl	L		340-375			1.4-1.5	3	
1579	Polychlorinated biphenyl (Aroclor 1254); (Chlorodiphenyl (54% Cl))	11097-69-1	PJN000		mg/m3	N		54% Cl	S		340-375				3	
1580	Polychlorinated biphenyl (Aroclor 1260); (Chlorodiphenyl (60% Cl))	11096-82-5	PJN250		mg/m3	N		60% Cl	S		340-375				3	
1581	Polychlorinated biphenyl (Aroclor 1260/1262): (Chlorodiphenyl [61% Cl?])	z-0066	PJN250		mg/m3	N		61% Cl	S		340-375			1.44 @ 30 C	2	Used Aroclor 60% Cl. Added
1582	Polychlorinated biphenyl (Aroclor 1262): (Chlorodiphenyl [62% Cl])	37324-23-5	PJN500		mg/m3	N		62% Cl	S		340-375			1.44 @ 30 C	2	Added
1583	Polychlorinated biphenyl (Aroclor 1268); (Chlorodiphenyl (68% Cl))	11100-14-4	PJN750		mg/m3	N		68% Cl	S		340-375				3	Used IDLH for other aroclors
1584	Polychlorinated biphenyl; (Aroclor; PCBs)	1336-36-3	PJL750		mg/m3	N		[Unspecified]	L/S		340-375			1.44 @ 30 C	3	MW range = 292-361
1585	Polyester; (Methacrylic acid diester with triethylene glycol)	109-16-0	MDN510	286,36	mg/m3	N	11,70	C14H22O6	L						1	
1586	Polyethylene	9002-88-4	PJS750		mg/m3	N		(C2H4)n	S	85-110				0,92	2	
1587	Polyethylene glycol	25322-68-3	PJT000		mg/m3	Y		(C2H4O)n· H2O	L or S						2	T-3 uses 'iv' data

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1588	Polyoxyalkyleneamine; (Poly(oxypropylene)diamine)	9046-10-0	N.I.S.		mg/m3	N		(C3-H6-O)n-C6-H16-N2-O								
1589	Polyoxyethylene monooctylphenyl ether	9036-19-5	GHS000		mg/m3	Y		(C2H4O)n C14H22O							3	
1590	Polypropylene glycols	25322-69-4	PKI500		mg/m3	Y		(C3H6O)n. H2O	S						3	T-3 uses 'ip' data T-3 changed.
1591	Polypropylene-polyethylene glycols	9003-11-6	PJH630		mg/m3	N		(C3H6O-C2H4O)x							2	
1592	Polystyrene resin; (Styrene polymer)	9003-53-6	SMQ500		mg/m3	N		(C8H8)n	S						2	
1593	Polyurethane foam; (Urethane polymers)	9009-54-5	PKL500		mg/m3	N		[Unspecified]	S						2	
1594	Polyvinyl chloride	9002-86-2	PKQ059		mg/m3	N		(C2H3Cl)Tl	S					1,406	2	T-1, T-2 changed
1595	Potassium	7440-09-7	PKT250	39,10	mg/m3	Y	1,60	K	S	63	770			0,862	3	KOH limits used, except for NaOH IDLH
1596	Potassium acetate	127-08-2	PKT750	98,15	mg/m3	N	4,01	C2H3O2.K	S	292				1,8	2	
1597	Potassium aluminate	12003-63-3	PLC100	98,07	mg/m3	N	4,01	K-Al-O2	S							Used TSCA CASRN & MF, no toxicity data found. Added
1598	Potassium aluminite	z-0067	PLC100	134,10	mg/m3	N	5,48	K-Al(OH)4	S							Added. No toxicity data found **SAR**
1599	Potassium aluminosilicate	z-0068	PLC100	158,16	mg/m3	N	6,46	KAlSiO4	S							Added. No listing found, except Na-K-aluminosilicate, CASRN = 12736-96-8 **SAR**
1600	Potassium antimonate	29638-69-5	PLC100	511,89	mg/m3	N	20,92	Sb2-K4-O7	S							Used TSCA CASRN & MF. No toxicity data. Added
1601	Potassium antimonate (X)	12208-13-8	PLC100	262,89	mg/m3	N	10,74	K-Sb-(OH)6								Used H&N MW & MF for this CASRN. KSbO3 not found. Added
1602	Potassium antimonite	z-0069	PLC100	228,88	mg/m3	N	9,35	KSb(OH)4								Changed "antomonate" to "antimonite". Added
1603	Potassium argentate	z-0070	PLC100	180,97	mg/m3	N	7,40	K-Ag(OH)2	S							Added
1604	Potassium arsenate	7784-41-0	ARD250	180,04	mg/m3	Y	7,36	As.H2O4.K	S	288				2,287	3	T-1, T-2, T-3 changed.
1605	Potassium arsenite	10124-50-2	PKV500	399,65	mg/m3	Y	16,33	As.H3O3.xK	S hygrs						3	. SAX CASRN = 13464-35-2, which RTECs lists as AsHO2, MW = 146.02 T-1, T-2, T-3 changed.
1606	Potassium arsenite (X)	13464-35-2	PKV500	399,65	mg/m3	N	16,33	As(OH)3.xK	S						3	Used SAX MW & MF, See SAX # FOM050. RTECS, HSDB, H&N have CASRN = 10124-50-2 for this MF & MW. Added
1607	Potassium beryllium oxide	z-0071	PLC100	144,20	mg/m3	Y	5,89	{Be2-K2-O3]	S							Added
1608	Potassium bicarbonate	298-14-6	PKX100	100,11	mg/m3	N	4,09	KHCO3	S	~100 dec				2,17	1	TSCA MF = C-H2-O3.K; both H&N and HC&P same as SAX; no toxicity data found. Added
1609	Potassium bismuthate	12589-75-2	PLC100	316,10	mg/m3	N	12,92	KBi(OH)4	S							RTECS CASRN, with mw = 296.08, MF = Bi-O3.K., lists both LD50 & Tdlo. Added
1610	Potassium bisulfate	7646-93-7	PKX750	136,17	mg/m3	Y	5,57	HO4S.K	S	214				2,24	2	
1611	Potassium bromate	7758-01-2	PKY300	167,01	mg/m3	Y	6,83	BrO3.K	S	370 dec				3,27	3	
1612	Potassium bromide	7758-02-3	PKY500	119,01	mg/m3	N	4,86	BrK	S	730	1435	1	795	2,75	2	
1613	Potassium cadminate	z-0072	PLC100	258,62	mg/m3	N	10,57	2K.Cd-(OH)4	S						3	MF based on MW. Added
1614	Potassium carbonate	584-08-7	PLA000	138,21	mg/m3	Y	5,65	CO3.2K	S	901	dec			2,428	3	
1615	Potassium chlorate	3811-04-9	PLA250	122,55	mg/m3	Y	5,01	ClO3.K	S	356	400 dec			2,32	3	
1616	Potassium chloride	7447-40-7	PLA500	74,55	mg/m3	Y	3,05	ClK	S	771	1500 subl			1,987	3	
1617	Potassium chromate(VI)	7789-00-6	PLB250	194,20	mg/m3	Y	7,94	CrO4.2K	S	975	dec			2.78 @ 18 C	3	T-1, T-2, T-3 changed.

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1618	Potassium citrate	866-84-2	PLB750	306,41	mg/m3	N	12,52	C6H5O7.3K	S	230 dec				1,98	3	T-3 uses 'iv' data All Ts changed.
1619	Potassium columbate; (Potassium niobate)	12030-85-2	PLL250	1174,26	mg/m3	N	47,99	8K.Nb6O19	S						3	
1620	Potassium cyanide	151-50-8	PLC500	65,12	mg/m3	Y	2,66	CN.K	S	622,5	1625			1.52 @ 16 C	3	T-3 changed.
1621	Potassium dichromate	7778-50-9	PKX250	294,20	mg/m3	Y	12,02	Cr2K2O7	S	398	500 dec			2,69	3	All Ts changed.
1622	Potassium ferricyanide	13746-66-2	PLF250	329,27	mg/m3	N	13,46	3K.Fe(CN)6	S	70 loses water	dec			1,85	2	T-0, T-1, T-2 changed.
1623	Potassium fluoride	7789-23-3	PLF500	58,10	mg/m3	N	2,37	FK	S	859,9	1500	1	885	2,48	3	All Ts changed.
1624	Potassium formate	590-29-4	PLG750	84,12	mg/m3	N	3,44	K.CHO2	S	168	dec			1,91	3	T-3 uses 'iv' data Added
1625	Potassium glycolate	1932-50-9	PLC100	114,13	ppm	N	4,66	C2-H4-O3.K	S							Prefer mu oral LD50 to iv data. Added
1626	Potassium hydrogen lead oxide	z-0073	PLC100	279,30	mg/m3	N	11,42	KHPbO2	S							Added. No toxicity data found **SAR**
1627	Potassium hydrogen pyro-phosphate	z-0074	PLC100	291,21	mg/m3	N	11,90	K3HP2O7	S							Added. No listing, except Potassium pyrophosphate, CASRN =7320-34-5, MF = 4K.P2O7, MW = 330.34 **SAR**
1628	Potassium hydrogen silicate	z-0075	PLC100	116,18	mg/m3	N	4,75	K.H3.SiO4	S							No toxicity data found. Added
1629	Potassium hydroxide	1310-58-3	PLJ500	56,11	mg/m3	Y	2,29	KOH	S	405	1320			2,044	3	
1630	Potassium iminodiacetate; (Potassium IDA)	z-0076	PLC100	209,00	ppm	Y	8,54	C4-H5-N-O4.2K								Added. Disodium iminodiacetate is CASRN 928-72-3, MW = 177.08. MW does not match MF. **SAR**
1631	Potassium iodate	7758-05-6	PLK250	214,00	mg/m3	N	8,75	K.IO3	S	560				3,89	3	T-3 uses 'ip' data T-2, T-3 changed.
1632	Potassium iodide	7681-11-0	PLK500	166,00	mg/m3	N	6,78	IK	S	681	1330	1	745	3,13	3	T-3 uses 'iv' data T-3 changed.
1633	Potassium lanthanate	z-0077	PLC100	246,02	mg/m3	N	10,06	KLa(OH)4	S							Added. No "lanthanate" listing found **SAR**
1634	Potassium metaborate	z-0078	PLC100	81,90	mg/m3	N	3,35	KBO2	S							No listing found. Potassium borate found, CASRN = 1332-77-0 Added
1635	Potassium molybdate	13446-49-6	PLC100	238,14	mg/m3	N	9,73	K2.Mo.O4	S	919				2,3		T-0, T-1, T-2 changed.
1636	Potassium nickel oxide (liquids)	z-0079	PLC100	168,89	mg/m3	N	6,90	K2NiO2	L							Added
1637	Potassium nickelate (liquids)	z-0080	PLC100	204,90	mg/m3	N	8,37	K2Ni(OH)4								Added
1638	Potassium nickelate (solids)	z-0081	PLC100	204,90	mg/m3	N	8,37	K2Ni(OH)4								Added
1639	Potassium nitrate	7757-79-1	PLL500	101,10	mg/m3	N	4,13	KNO3	S	334	400 dec			2,109	3	SAX MW incorrect
1640	Potassium nitrilotriacetate (Potassium NTA)	2399-85-1	TMX750	305,43	mg/m3	N	12,48	C6H6NO6.3K							2	Added
1641	Potassium nitrite	7758-09-0	PLM500	85,11	mg/m3	N	3,48	NO2.K	S	440	1000 expl			1,915	3	
1642	Potassium orthovanadate	z-0082	PLC100	232,00	mg/m3	N	9,48	K3-V-O4								Added
1643	Potassium oxalate	583-52-8	PLN300	168,24	mg/m3	N	6,88	C2H2O4.2K	S					2,08	2	
1644	Potassium permanganate	7722-64-7	PLP000	158,04	mg/m3	Y	6,46	K-Mn-O4	S	240 dec				2,703	3	
1645	Potassium persulfate; (Dipotassium persulfate)	7727-21-1	DWQ000	272,34	mg/m3	Y	11,13	H2O8S2.2K	S	100 dec				2,477	3	
1646	Potassium pertechnetate	14133-76-7	PLC100	201,10	mg/m3	N	8,22	KTcO4	S							Listed in OHMTADS, naturally radioactive, T1/2 22000 years, radiation dose will dominate. Added
1647	Potassium phosphate, dibasic	7758-11-4	PLQ400	174,18	mg/m3	N	7,12	K2HPO4	S						1	

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1648	Potassium phosphate, monobasic	7778-77-0	PLQ405	136,09	mg/m3	N	5,56	H2-O4-P.K	S							
1649	Potassium phosphate, tribasic	7778-53-2	PLQ405	212,27	mg/m3	N	8,68	K3.PO4	S						2	
1650	Potassium pyrophosphate; (Tetrapotassium diphosphorate)	7320-34-5	PLR200	330,24	mg/m3	N	13,50	K4P2O7	S	180	300			2,33	1	T-2 changed.
1651	Potassium pyrosulfate; (Disulfuric acid, dipotassium salt)	7790-62-7	PLC100	256,32	mg/m3	N	10,48	H2-O7-S2.2K	S							
1652	Potassium selenate	7790-59-2	PLR750	221,14	mg/m3	N	9,04	K2-Se-O4	S	1000				3,07	3	Added
1653	Potassium selenite	10431-47-7	SBO100	205,16	mg/m3	Y	8,39	K2-Se-O3	S						3	TSCA MF = 2K.H2SeO3. Added
1654	Potassium silver cyanide	506-61-6	PLS250	199,01	mg/m3	Y	8,13	C2AgN2.K	S			0,00001	25	2.36 @ 25 C	3	Added
1655	Potassium stannate	12142-33-5	PLC100	244,90	mg/m3	N	10,01	K2-Sn-O3	S							**SAR but** TSCA CASRN. RTECS "potassium stannate trihydrate", CASRN = 12125-03-0 mu iv LD50, and Sn cmpnd limits, Ts are 4,
1656	Potassium strontium phosphate	z-0083	PLC100	221,68	mg/m3	N	9,06	K-Sr-P-O4	S							Added. No toxicity data found **SAR**
1657	Potassium sulfate (2:1)	7778-80-5	PLT000	174,26	mg/m3	N	7,12	O4S.2K	S	1067	1689			2,66	2	
1658	Potassium sulfite	10117-38-1	PLT500	158,26	mg/m3	N	6,47	O3S.2K	S						D	
1659	Potassium tellurate	15571-91-2	PLC100	269,78	mg/m3	N	11,03	2K-Te-O4	S							Data ex RTECS, TSCA MF = 2K-Te-H2-O4. Added
1660	Potassium tellurite	7790-58-1	PLU000	253,78	mg/m3	N	10,37	2K-Te-O3	S						3	Added
1661	Potassium tetraphenylborate	3244-41-5	PLC100	358,31	mg/m3	N	14,64	KB(C6H5)4	S							Data from MSDS
1662	Potassium thiocyanate	333-20-0	PLV000	97,18	mg/m3	N	3,97	CNS.K	S	173	500 dec			1,89	3	
1663	Potassium trihydrogen silicate	z-0084	PLC100	134,20	mg/m3	N	5,48	K-H3-Si-O4	S							No toxicity data found. Added
1664	Potassium tungstate (liquids)	7790-60-5	PLC100	326,03	mg/m3	Y	13,33	K2-W-O4	L	921				3,12		TSCA, HC&P listed. Added
1665	Potassium tungstate (solids)	7790-60-**6**	PLC100	326,03	mg/m3	Y	13,33	K2-W-O4	S hygr	921				3,12		TSCA, HC&P listed, last CASRN digit changed. Added
1666	Potassium uranyl carbonate	z-0085	PLC100	408,22	mg/m3	Y	16,68	K2-UO2-CO3	S							Added
1667	Potassium zirconate	12030-98-7	PLC100	217,41	mg/m3	Y	8,89	2K-Zr-O3	S							CASRN and MF ex TSCA, MW corrected. Added
1668	Praseodymium nitrate	10361-80-5	PLY250	326,94	mg/m3	N	13,36	N3O9.Pr	S						3	
1669	Praseodymium oxide	12036-32-7	N.I.S.	329,81	mg/m3	N	13,48	Pr2-O3	S	2300				6,9		Added. In HC&P, TSCA, no toxicity data, rat oral LD50 estimated from other Pr compounds
1670	Promecarb; (m-CYM-5-YL methylcarbamate)	2631-37-0	CQI500	207,30	mg/m3	N	8,47	C12H17NO2	S	87-88	345	0,00003	25		3	RTECS r LD50 = 35 mg/kg Added
1671	Propanamine, 1-; (Propylamine)	107-10-8	PND250	59,30	ppm	Y	2,42	C3H9N	L	-83	48-49	248	20	0,7191	3	
1672	Propane	74-98-6	PMJ750	44,11	ppm	N	1,80	C3H8	G	-187,7	-42,1	760		0,5853	3	
1673	Propane sultone, 1,3-	1120-71-4	PML400	122,15	mg/m3	Y	4,99	C3H6O3S	S	31	155-157 @14mm			1,392	3	T-2 uses 'iv' data T-0, T-1, T-2 changed.
1674	Propanediamine, 1,2-	78-90-0	PMK250	74,15	mg/m3	Y	3,03	C3H10N2	L		118,9			0,9	3	
1675	Propanediamine, 1,3-	109-76-2	PMK500	74,15	ppm	Y	3,03	C3H10N2	L	-12	135-136			0,8881	3	T-2 uses 'ip' data T-0, T-1, T-2 changed.
1676	Propanedinitrile; (Malononitrile)	109-77-3	MAO250	66,07	mg/m3	Y	2,70	C3H2N2	L	30,5	220	11	99	1.049 @ 34 C	3	
1677	Propargyl alcohol	107-19-7	PMN450	56,07	ppm	Y	2,29	C3H4O	L	-48->	114,5	11,6	20	0,9715	3	

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1678	Propargyl bromide	106-96-7	PMN500	118,97	mg/m3	Y	4,86	Br.C3H3	L	-61,07	88-90			1.579 @ 19 C	3	RTECS rat LD50 = 53 mg/m3 used, T-3 changed
1679	Propiolactone, b-	57-57-8	PMT100	72,07	ppm	N	2,95	C3H4O2	L	-33,4	162 dec			1,145	3	T-2 changed.
1680	Propionaldehyde	123-38-6	PMT750	58,09	mg/m3	Y	2,37	C3H6O3S	L	-81	48			0,807	3	
1681	Propionic acid	79-09-4	PMU750	74,09	ppm	Y	3,03	C3H6O2	L	-21,5	141,1	10	39,7	0,99815	3	
1682	Propionic acid, 3-ethoxy-, ethyl ester	763-69-9	EJV500	146,21	mg/m3	Y	5,98	C7H14O3	L	-100	170,1			0,9496	1	
1683	Propionic anhydride	123-62-6	PMV500	130,16	mg/m3	Y	5,32	C6H10O3	L	-45	167	1	20,6	1,012	2	
1684	Propionitrile; (Propiononitrile)	107-12-0	PMV750	55,09	ppm	Y	2,25	C3H5N	L	-103,5	97,1	35	20	0,783	3	
1685	Propionyl chloride	79-03-8	PMW500	92,53	ppm	Y	3,78	CH3CH2CO.Cl	L	-94	80			1,065	3	TSCA only; LC50 estimated.
1686	Propoxur	114-26-1	PMY300	209,27	mg/m3	N	8,55	C11H15NO3	S	84-87					3	T-2 changed.
1687	Propyl alcohol, n-	71-23-8	PND000	60,11	ppm	Y	2,46	C3H8O	L	-127	97,19	10	14,7	0,8044	3	
1688	Propyl chloroformate; (Propyl chlorocarbonate)	109-61-5	PNH000	122,56	ppm	N	5,01	C4H7ClO2	L		114-115 @768			1,09	3	T-2 changed.
1689	Propyl nitrate	627-13-4	PNQ500	105,11	ppm	Y	4,30	C3H7NO3	L	<-101	110,5			1.054 @ 20 C	3	
1690	Propyl-1-butanamine, N-	20193-21-9	N.I.S.	115,22	mg/m3	N	4,71	C7-H17-N								No toxicity data found **SAR**
1691	Propylbenzene, n- (Isocumene)	103-65-1	IKG000	120,21	ppm	N	4,91	C6H5CH2 CH2CH3	L	-92,2	159,2	10	43,4	0,862	3	
1692	Propylene carbonate, 1,2-	108-32-7	CBW500	102,10	mg/m3	Y	4,17	C4H6O3	L	-48,8	242,1	0,03		1,2069	1	
1693	Propylene glycol dinitrate; (Otto fuel)	6423-43-4	PNL000	166,11	ppm	Y	6,79	C3H6N2O6	L	-7,8		0,07	22	1.23 @ 25	3	
1694	Propylene glycol monomethyl ether; (UCAR TRIOL HG-170)	107-98-2	UBA000	90,10	ppm	Y	3,68	C4H10O2	L	-96,7	120			0,9234	1	
1695	Propylene glycol mono-n-butyl ether; (3-butoxy-1-propanol)	10215-33-5	BPS500	132,23	ppm	Y	5,40	C7H16O2							3	
1696	Propylene glycol; (1,2-Propanediol)	57-55-6	PML000	76,11	ppm	Y	3,11	C3H8O2	L	-59	188,2	0,08		1,0362	2	T-3 uses 'ip' data T-3 changed.
1697	**Propylene oxide; (Methyl ethylene oxide)**	75-56-9	PNL600	58,09	ppm	Y	2,37	C3H6O	L	-112,2	34,4	445	20	0,8304	3	**ERPG-1, -2, -3**
1698	Propylene; (1-Propene)	115-07-1	PMO500	42,09	ppm	N	1,72	H2C=CHCH3	G/L	-185	-47,7	7600	19,8	0.581 @ 0 C	3	Asphixiant, all Ts changed to LEL=2.4%
1699	Propyleneimine, 1,2-	75-55-8	PNL400	57,11	ppm	Y	2,33	C3H7N	L		66-67			1,41	3	T-2 changed
1700	Prothoate; (Isopropyl diethyldithiophosphorylacetamide)	2275-18-5	IOT000	285,39	mg/m3	N	11,66	C9H20NO3PS2	S	28,5	330	0,0001	25		3	Added
1701	Pyrene	129-00-0	PON250	202,26	mg/m3	Y	8,27	C16H10	S	149-150	404			1,271	3	T-2 uses 'sk' data
1702	Pyridine	110-86-1	POP250	79,11	ppm	Y	3,23	C6H5N	L	-42,2	115,6	20	25	0,982	3	
1703	Pyriminil; (Pyriminyl)	53558-25-1	PPP750	272,29	mg/m3	N	11,13	C13H12N4O3	S	223-225		0,00001	25		3	Added
1704	Pyromellitic acid	89-05-4	PPQ630	254,16	mg/m3	N	10,39	C10H6O8	S	257-265				1,79	3	T-3 uses 'ip' data All Ts changed.
1705	Pyroxylin; (Cellulose tetranitrate)	9004-70-0	CCU250	504,30	mg/m3	N	20,61	C12H16 (ONO2)4O6	Samor					1,66	3	
1706	Pyrrolidine	123-75-1	PPS500	71,14	mg/m3	N	2,91	C4H9N	L	-63	88.5-89	128	39	0,8618	3	
1707	Pyrrolidinone, 2-	616-45-5	PPT500	85,12	ppm	Y	3,48	C4-H7-N-O	S	24,6	245	0,00949	25	1,116	1	RTECS toxicity data used. MW ex SAX/ Added

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Table 1: Revision 19 of Chemicals for which TEELs have been derived. with some physicochemical data

No.	Chemical Compound	CAS Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity concentration dependent	ppm to mg/m^3 conversion factor	Molecular formula	State at 25oC	MP (FP) oC	BP °C	Vapor Pressure mm Hg	Vapor Pressure T (°C)	SG	HR	Comments
1708	Quinhydrone	106-34-3	QFJ000	220,24	mg/m3	N	9,00	(C6H6O2)2	S	171				1,4	3	T-3 uses 'iv' data All Ts changed.
1709	Quinoline	91-22-5	QMJ000	129,17	ppm	Y	5,28	C9H7N	L	-14,5	237,7	1	59,7	1,09	3	
1710	Quinolinol, 8-	148-24-3	QPA000	145,17	mg/m3	N	5,93	C9H7NO	S	76	267				3	T-2 uses 'ip' data T-0, T-1, T-2 changed.
1711	Resorcinol	108-46-3	REA000	110,12	ppm	Y	4,50	C6H6O2	S	110	280,5	1	108,4	1.285 @ 15 C	3	T-2 uses 'sk' data
1712	Rhenium oxide; (Rhenium(VII) oxide)	1314-68-7	N.I.S.	484,41	mg/m3	N	19,80	Re2-O7	S	297	360			6,1		Added. Listed in TSCA, no toxicity data. Soluble W limits used.
1713	Rhodium	7440-16-6	RHF000	102,91	mg/m3	N	4,21	Rh	S	1966	3727			12,41	3	
1714	Rhodium oxide (liquids); (Rhodium(IV) oxide)	12137-27-8	N.I.S.	134,91	mg/m3	Y	5,51	Rh-O2	L					7,2		MW & MF changed. Rhodium(III) (above) & rhodium(IV) oxide are listed, but not Rh2.O Added
1715	Rhodium oxide (solids); (Rhodium((IV) oxide)	12137-27-**9**	N.I.S.	134,91	mg/m3	N	5,51	Rh-O2	S					7,2		MW & MF changed. Liquid treated as sol. solids insol., CASRN ex HC&P, last digit changed. Added
1716	Rhodium(III) hydroxide (liquids)	21656-02-0	N.I.S.	153,93	mg/m3	Y	6,29	Rh-(OH)3	L sol							TSCA listed CASRN Added
1717	Rhodium(III) hydroxide (solids)	21656-02-**1**	N.I.S.	153,93	mg/m3	N	6,29	Rh-(OH)3	S is							TSCA CASRN last digit changed Added
1718	Rhodium(III) oxide (solids)	12036-35-0	N.I.S.	253,81	mg/m3	N	10,37	Rh2-O3	S is	1100 dec				8,2		TSCA listed CASRN Added
1719	Ricin	9009-86-3	RJK000	65000,00	mg/m3	Y	2656,64	[Glycoprotein]	S						3	
1720	Rotenone	83-79-4	RNZ000	394,45	mg/m3	Y	16,12	C23H22O6	S	163				1,27	3	
1721	Rubidium bromide	7789-39-1	N.I.S.	165,37	mg/m3	N	6,76	RbBr	S	693	1340			3,35		
1722	Rubidium chloride	7791-11-9	RPF000	120,92	mg/m3	N	4,94	ClRb	S	718	1390			2,76	2	
1723	Rubidium hydroxide	1310-82-3	RPZ000	102,48	mg/m3	Y	4,19	Rb-OH	V	382				3 .203 @ 11 C	2	Added. Corrosive irritant
1724	Rubidium nitrate	13126-12-0	N.I.S.	147,48	mg/m3	N	6,03	Rb.NO3	S							
1725	Ruthenium	7440-18-8	RRU000	101,07	mg/m3	N	4,13	Ru	S	2310	4150			12,45	3	
1726	Ruthenium trichloride	10049-08-8	RRZ000	207,42	mg/m3	N	8,48	ClRu	S	500 dec				3,11	3	T-3 uses 'ip' data All Ts changed.
1727	Ruthenium(IV) oxide	12036-10-1	RSF875	133,07	mg/m3	N	5,44	Ru-O2	V					7,05	3	Added
1728	Safrol; (1,3-Benzodioxole, 5-(2-propenyl)-)	94-59-7	SAD000	162,20	mg/m3	Y	6,63	C10H10O2	L	11	232,5	1	63,8	1.0960 @ 20 C	3	T-2 uses 'ip' data T-0, T-1, T-2 changed.
1729	Salcomine; (bis[Salicylaldehyde]ethylenediimine cobalt[II])	14167-18-1	BLH250	325,25	mg/m3	N	13,29	C16H14CoN2O2	S			0,00001	25		3	Added
1730	Salicylic acid	69-72-7	SAI000	138,13	mg/m3	Y	5,65	C7H6O3	S	158,3	211 @ 20mm			1,443	3	T-2 uses 'sk' data T-0, T-1, T-2 changed.
1731	Samarium nitrate	10361-83-8	SAT200	336,38	mg/m3	N	13,75	SmN3O9	S						3	
1732	Samarium(III) oxide	12060-58-1	N.I.S.	348,72	mg/m3	N	14,25	Sm2-O3	S							Added. Rat oral LD50 > 5 g/kg
1733	Scandium oxide	12060-08-1	N.I.S.	137,91	mg/m3	N	5,64	Sc2-O3	S	2485				3,864		Added. HC&P and TSCA listed, no toxicity data, PNOS used
1734	Selenious acid	7783-00-8	SBO000	128,98	mg/m3	N	5,27	H2-Se-O3	V	70 dec		2	15	3.004 @ 15 C	3	T-3 uses 'iv' data All Ts changed.
1735	Selenium	7782-49-2	SBO500	78,96	mg/m3	N	3,23	Se	S	217	685	1	356	4.26 - 4.81	3	
1736	Selenium dioxide	7446-08-4	SBQ500	110,96	mg/m3	N	4,54	O2Se	S	340-350	subl	1	157	3,95	3	T-2, T-3 changed.

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1737	Selenium hexafluoride	7783-79-1	SBS000	192,96	ppm	N	7,89	F6Se	G	-46,6	-34 subl			3,27	3	T-3 changed.
1738	Selenium monosulfide	7446-34-6	SBT000	111,02	mg/m3	N	4,54	SeS	S	111,03	118dec			3.056 @0C	3	T-2 changed.
1739	Selenium oxychloride	7791-23-3	SBT500	165,86	mg/m3	N	6,78	Cl2OSe	L	10,9	176,4	2,9	25	2.42 @ 22 C	3	Added
1740	Selenium sulfide; (Se(IV) disulfide (1:2))	7488-56-4	SBR000	143,08	mg/m3	N	5,85	SeS2	S	<100					3	
1741	Semicarbazide hydrochloride	563-41-7	SBW500	111,55	mg/m3	N	4,56	CH5N3O.ClH	S/L	176 decom					3	
1742	Silane	7803-62-5	SDH575	32,13	ppm	N	1,31	H4Si	G	-185	-112			0.68 @ -185 C	3	
1743	Silica, amorphous fume	69012-64-2	SCH001		mg/m3	N		[Si-O2]								
1744	Silica, amorphous fumed	112945-52-5	SCH002	60,09	mg/m3	N	2,46	O2Si	S pwdr						2 1	T-2 changed.
1745	Silica, amorphous hydrated	7631-86-9	SCI000	60,09	mg/m3	N	2,46	O2Si	S	1716-1736	2230				1	
1746	Silica-crystalline (quartz); (Silicon dioxide)	14808-60-7	SCJ500	60,09	mg/m3	N	2,46	SiO2	S	1710	2230			2,6	3	
1747	Silicic acid	7699-41-4	SCL000	78,10	mg/m3	Y	3,19	Si-H2-O3	S						3	T-3 uses 'iv' data Added
1748	Silicofluoric acid; (Fluorosilicic acid)	16961-83-4	SCO500	144,11	mg/m3	N	5,89	H2F.6Si	L		dec				3	
1749	Silicon	7440-21-3	SCP000	28,09	mg/m3	Y	1,15	Si	S	1410	2355	1	1724	2,42	3	
1750	Silicon (II) oxide	10097-28-6	SDH000	44,09	mg/m3	N	1,80	Osi	S	>1702	1880			2,15	3	
1751	Silicon carbide	409-21-2	SCQ000	40,10	mg/m3	N	1,64	Csi	S	2600	subl			3,17	2	
1752	Silicon tetrafluoride; (Tetrafluorosilane)	7783-61-1	SDF650	104,09	ppm	Y	4,25	F4Si	G	-77					3	Added
1753	Silicone (several formulations); (Decamethylcyclopentasiloxane)	541-02-6	DAF350	370,85	mg/m3	N	15,16	R2Si-O2	L						1	
1754	Silver	7440-22-4	SDI500	107,87	mg/m3	N	4,41	Ag	S	961,6	2212			10,5	2	
1755	Silver carbonate; (Silver(I) carbonate)	534-16-7	SDN200	275,75	mg/m3	N	11,27	Ag2-CO3	S	218				6,077	3	Added
1756	Silver chloride	7783-90-6	SDO500	143,40	mg/m3	N	5,86	AgCl	S	445	1550					T-1, T-2 changed.
1757	Silver cyanide	506-64-9	SDP000	133,89	mg/m3	Y	5,47	Ag.CN	S	320 dec				3,95	3	All Ts changed.
1758	Silver hydroxide	z-0086	SDO500	124,88	mg/m3	N	5,10	Ag-OH	S							Added
1759	Silver nitrate	7761-88-8	SDS000	169,88	mg/m3	Y	6,94	Ag.NO3	S	212	444 dec			4.352 @ 19 C	3	All Ts changed.
1760	Silver nitrite; (Silver(I) nitrite)	7783-99-5	SDO500	153,87	mg/m3	N	6,29	Ag-NO2	S							Added
1761	Silver oxide	20667-12-3	SDU500	231,74	mg/m3	N	9,47	Ag2O	S	300 dec				7,22	3	T-3 uses 'ip' data T-3 changed.
1762	Sodium	7440-23-5	SEE500	22,99	mg/m3	Y	0,94	Na	S	97,8	881,4	1,2	400	0,971	3	NaOH limits used
1763	Sodium (tetra)borate, di-	1330-43-4	DXG035	201,22	mg/m3	N	8,22	Na2B4O7	S	741	1575				1	
1764	Sodium acetate	127-09-3	SEG500	82,04	mg/m3	N	3,35	C2H3O2.Na	S	324				1,528	3	
1765	Sodium aluminate	1302-42-7	SFZ000	81,97	mg/m3	N	3,35	AlO2.Na	S	1650				4,63		
1766	Sodium aluminate; (Aluminum sodium oxide)	11138-49-1	AHG000	82,00	mg/m3	N	3,35	NaAlO2	S	1650					2	

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1767	Sodium aluminosilicate	1344-00-9	SEM000	142,05	mg/m3	Y	5,81	Na-Al-SiO4	S						1	r os LD50>27 g/kg, LC > 140 mg/m3 SAR used. Added
1768	Sodium aluminum carbonate dihydroxide; (Dawsonite)	12011-76-6	DAC450	144,00	mg/m3	N	5,89	Na-Al-CO3-(OH)2	S						3	Added. RTECS CASRN for "dehydroxy sodium aluminum, carbonate", same MF SAR
1769	Sodium aluminum silicate	73987-94-7	SFZ000	410,94	mg/m3	N	16,80	Al-12Na-SiO4	S							Added. Intertox & TSCA CASRN TSCA MF. SAR used.
1770	Sodium antimonate	33908-66-6	AQB250	192,74	mg/m3	N	7,88	Na-Sb-(OH)6	S						D	TSCA has CASRN= 33908-66-6 for Na.Sb.(OH)6 Added
1771	Sodium antimonate; (Antimonic acid, sodium salt)	11112-10-0	AQB250	246,79	mg/m3	N	10,09	Na-SbO3	S						D	TSCA lists CASRN = 15432-85-6 for Na.SbO3 Added
1772	Sodium antimonite	z-0087	SFZ000	212,78	mg/m3	N	8,70	Na-Sb-(OH)4	S							Added
1773	Sodium argentate	z-0088	SFZ000	164,87	mg/m3	N	6,74	Na-Ag-(OH)2	S							MF based on MW Added
1774	Sodium arsenate	7631-89-2	ARD750	202,94	mg/m3	Y	8,29	AsH3O4.7Na	S	86					3	REL-C ignored. T-1, T-2, T-3 changed.
1775	Sodium arsenite	7784-46-5	SEY500	129,91	mg/m3	Y	5,31	NaAsO2	S					1,87	3	REL-C ignored. T-1, T-2, T-3 changed.
1776	Sodium azide	26628-22-8	SFA000	65,02	mg/m3	Y	2,66	N3Na	S	dec				1,846	3	T-0, T-1 changed
1777	Sodium beryllium oxide	z-0089	SFZ000	112,00	mg/m3	Y	4,58	Na2-Be2-O3	S							Added
1778	Sodium bicarbonate	144-55-8	SFC500	84,01	mg/m3	N	3,43	NaHCO3	S		dec			2,159	1	
1779	Sodium bifluoride; (Sodium hydrogen fluoride)	1333-83-1	SHQ500	62,00	mg/m3	Y	2,53	F2.Hna	S	decom				2,08	3	
1780	Sodium bismuthate	12232-99-4	SFD000	279,97	mg/m3	N	11,44	NaBi(OH)4 or BiNaO3	S							SAR TEELs 1.25, 4, 25, 200 mg/m3 not used. Added
1781	Sodium bisulfate; (Sodium acid sulfate)	7681-38-1	SEG800	120,06	mg/m3	Y	4,91	HO4S.Na	S	>315dec				2,43513	2	
1782	Sodium bisulfite	7631-90-5	SFE000	104,06	mg/m3	N	4,25	HO3S.Na	S	dec				1,48	3	
1783	Sodium borate decahydrate	1303-96-4	SFE500	381,40	mg/m3	N	15,59	Na2B4O7. 10H2O	S	75-320	1575			1,73	3	
1784	Sodium borohydride	16940-66-2	SFF500	37,84	mg/m3	Y	1,55	BH4.Na	S	497 dec				1,07	3	T-3 uses 'ip' data All Ts changed.
1785	Sodium bromate	7789-38-0	SFG000	150,90	mg/m3	N	6,17	BrO3.Na	S	381				3,339	3	T-3 uses 'ip' data All Ts changed.
1786	Sodium bromide	7647-15-6	SFG500	102,90	mg/m3	N	4,21	BrNa	S	747	1390			3,21	2	
1787	Sodium butyl (2-ethylhexyl)phosphate	z-0090	SFZ000	288,30	mg/m3	N	11,78	[Unknown]								Added. No toxicity data found SAR
1788	Sodium butyl butylphosphonate	z-0091	SFZ000	232,19	mg/m3	N	9,49	[Unknown]								Added. No toxicity data found SAR
1789	Sodium cacodylate; (Sodium dimethylarsenate)	124-65-2	HKC500	159,99	mg/m3	N	6,54	AsO2C2H6.Na	S	200					3	T-2 changed.
1790	Sodium cadminate	z-0092	SFZ000	226,42	mg/m3	N	9,25	Na2-Cd-(OH)4	S						2	MF based on MW. Added
1791	Sodium carbonate	497-19-8	SFO000	105,99	mg/m3	N	4,33	Na2CO3	S hygr	851	dec			2.509 @ 0 C	3	
1792	Sodium carbonate monohydrate	5968-11-6	SFZ000	124,01	mg/m3	Y	5,07	Na2CO3.H2O	S	851				2,53	2	HSDB data used.
1793	Sodium chloride	7647-14-5	SFT000	58,44	mg/m3	Y	2,39	ClNa	S	801	1413	1	865	2,165	2	
1794	Sodium chromate decahydrate	13517-17-4	SFW500	342,18	mg/m3	Y	13,99	2Na.CrO4. 10H2O	S						3	T-1, T-3 changed.
1795	Sodium chromate(VI); (Disodium chromate)	7775-11-3	DXC200	161,98	mg/m3	Y	6,62	2Na.CrO4	S	792				2,72	3	T-3 changed.
1796	Sodium citrate; (Monosodium citrate)	18996-35-5	MRL000	214,12	mg/m3	N	8,75	C6H7O7.Na	S						3	

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1797	Sodium cobaltinitrite	13600-98-1	SFX750	403,96	mg/m3	N	16,51	CoN6O12.3Na	S						D	T-2 uses 'ip' data All Ts changed.
1798	Sodium cyanide	143-33-9	SGA500	49,01	mg/m3	Y	2,00	Na.CN	S	563,7	1496	1	817		3	T-3 changed.
1799	Sodium dichromate dihydrate	7789-12-0	SGI500	298,02	mg/m3	N	12,18	Cr2Na2O7. 2H2O	S	356,7	400 dec			2.35 @ 13C	3	T-3 changed.
1800	Sodium dichromate; (Disodium dichromate)	10588-01-9	SGI000	261,98	mg/m3	Y	10,71	2Na.Cr2O7	S	356,7	400 dec			2.35 @ 13 C	3	All Ts changed.
1801	Sodium diethyldithiocarbamate; (Carbamodithioic acid, diethyl-, sodium salt)	148-18-5	SGJ000	171,27	mg/m3	N	7,00	C5H10NS2.Na	S	95				1.1 @ 20 C	3	T-2 uses 'ip' data T-1, T-2 changed.
1802	Sodium dodecylbenzenesulfonate; (Dodecyl benzene sodium sulfonate)	25155-30-0	DXW200	348,52	mg/m3	Y	14,24	C18H29O3S. Na	S						3	
1803	Sodium ferrocyanide	13601-19-9	SFZ000	303,93	mg/m3	N	12,42	C6-Fe-N6.4Na	S					1,458		
1804	Sodium fluoride	7681-49-4	SHF500	41,99	mg/m3	Y	1,72	FNa	S	996	1695	1	1077	2.558 @ 41 C	3	
1805	Sodium formate	141-53-7	SHJ000	68,01	mg/m3	N	2,78	CHO2.Na	S del	259-261				1,92	2	
1806	Sodium gluconate	527-07-1	SHK800	219,17	mg/m3	N	8,96	C31H47O6.Na	S hygr						3	T-3 uses 'ip' data All Ts changed.
1807	Sodium glycinate	6000-44-8	GHG000	97,06	ppm	Y	3,97	Na-C2-H4-N-O2	S						2	T-3 uses 'iv' data Added
1808	Sodium glycolate; (Sodium hydroxyacetate)	2836-32-0	SHT000	98,04	ppm	Y	4,01	Na-C2-H3-O3	S						1	Added
1809	Sodium hydride	7646-69-7	SHO500	24,00	mg/m3	Y	0,98	Na-H	S	800 decom				0,9	3	
1810	Sodium hydrogen lead oxide	z-0093	SFZ000	263,20	mg/m3	N	10,76	Na-H-Pb-O2	S							Added. No toxicity data found **SAR**
1811	Sodium hydrogen metasilicate	z-0094	SFZ000	100,08	mg/m3	N	4,09	Na-H-Si-O3	S							Added. No toxicity data found **SAR**
1812	Sodium hydrogen pyrophosphate	z-0095	SFZ000	243,92	mg/m3	N	9,97	Na3-H-P2-O7	S							Added. No toxicity data found, but Tetrasodium pyrophosphate CASRN = 7722-88-5 **SAR**
1813	Sodium hydrosulfite	7775-14-6	SHR500	174,10	mg/m3	N	7,12	O4S2.2Na	S	55 dec					3	
1814	**Sodium hydroxide**	1310-73-2	SHS500	40,00	mg/m3	Y	1,63	Na.OH	S del	318,3	1390	1	739	2,13	3	**ERPG-1, -2, -3**
1815	Sodium hypochlorite	7681-52-9	SHU500	75,45	mg/m3	Y	3,08	ClHO.Na	S	18					3	
1816	Sodium hypochlorite pentahydrate	10022-70-5	SHU525	165,55	mg/m3	Y	6,77	ClHO.Na.5H2O	L					1.21 @ 20 C	1	
1817	Sodium iodate	7681-55-2	SHV500	197,89	mg/m3	Y	8,09	Na-I-O3	S	dec				4.277 @ 17.5C	3	Treated as iodine compound. Added
1818	Sodium iodide	7681-82-5	SHW000	149,89	mg/m3	Y	6,13	Na-I	S	660	1304	1	767	3,667	2	
1819	Sodium lanthanate	z-0096	SFZ000	229,92	mg/m3	N	9,40	Na-La-(OH)4	S							Added. No "lanthanate" listing or toxicity data found **SAR**
1820	Sodium lauryl sulfate; (Surfactant)	151-21-3	SIB600	289,43	mg/m3	Y	11,83	C12H26O4S. Na	S						3	T-2 uses 'sk' data T-0, T-1, T-2 changed.
1821	Sodium metabisulfite	7681-57-4	SII000	190,10	mg/m3	N	7,77	Na2.S2O5	S	150 dec				1,4	3	T-3 uses 'iv' data T-3 changed.
1822	Sodium metaborate	7775-19-1	SII100	66,81	mg/m3	N	2,73	Na-B-H-O2	S	966	1434			2,464	2	SAX, RTECS, HSDB MF = BHO2.Na, not NaBO2 Added
1823	Sodium metaphosphate	10361-03-2	SII500	101,96	mg/m3	N	4,17	NaP.O3	S						2	T-3 uses 'ip' data All Ts changed.
1824	Sodium metasilicate	z-0097	SFZ000	140,08	mg/m3	N	5,73	Na2H2SiO4							1	Added
1825	Sodium metasilicate nonahydrate	13517-24-3	SFZ000	286,22	mg/m3	N	11,70	H2O3.Si.2Na.9H2O	S	1089				2,614		T-3 changed
1826	Sodium metavanadate; (Sodium vanadate)	13718-26-8	SKP000	121,93	mg/m3	N	4,98	O3V.Na	S	630					3	T-2 uses 'ip' data T-0, T-1, T-2 changed.

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1827	Sodium methylate	124-41-4	SIK450	54,03	mg/m3	Y	2,21	CH3O.Na	S	>300	127dec				3	
1828	Sodium molybdate dihydrate; (Disodium molybdate dihydrate)	10102-40-6	DXE875	241,95	mg/m3	N	9,89	Na2MoO4.2H2O	S					3,5	3	T-3 uses 'ip' data T-2, T-3 changed.
1829	Sodium monoxide; (Sodium oxide)	12401-86-4	SIN500	61,98	mg/m3	Y	2,53	Na2.O	S		1275 subl			2,27	3	
1830	Sodium nickel oxide (liquid)	z-0098	SFZ000	136,67	mg/m3	N	5,59	Na2-Ni-O2	L							Added
1831	Sodium nickelate (Liquids)	z-0099	SFZ000	172,70	mg/m3	N	7,06	Na2-Ni-(OH)4	L							Added
1832	Sodium nickelate (Solids)	z-0100	SFZ000	172,70	mg/m3	N	7,06	Na2-Ni-(OH)4	S							Added
1833	Sodium nitrate	7631-99-4	SIO900	85,00	mg/m3	Y	3,47	NaNO3	S	306,8	380 dec			2,261	3	
1834	Sodium nitrite	7632-00-0	SIQ500	69,00	mg/m3	Y	2,82	NaNO2	S hygr	271	320 dec			2,168	3	
1835	Sodium nitroferricyanide	14402-89-2	SIU500	261,94	mg/m3	N	10,71	C5FeN6O· 2Na	S						3	T-0, T-1, T-2 changed.
1836	Sodium orthovanadate	13721-39-6	SIY250	183,91	mg/m3	Y	7,52	Na3-V-O4	S	850-866					3	
1837	Sodium oxalate	62-76-0	SIY500	134,00	mg/m3	N	5,48	Na2C2O4	S	250-270	dec			2,34	3	T-3 uses 'ip' data T-3 changed.
1838	Sodium pentachlorophenate	131-52-2	SJA000	288,30	mg/m3	N	11,78	C6Cl5O.Na	S						3	T-1, T-2 changed.
1839	Sodium perchlorate	7601-89-0	PCE750	122,44	mg/m3	N	5,00	ClO4.Na	S	482 dec				2,02	3	
1840	Sodium peroxide	1313-60-6	SJC500	77,98	mg/m3	Y	3,19	Na2.O2	S	460 dec	657 dec			2,805	3	
1841	Sodium perrhenate; (Rhenium(VII) sodium oxide)	13472-33-8	SJD500	273,19	mg/m3	N	11,17	NaO4.Re	S	420					2	T-3 uses 'ip' data
1842	Sodium pertechnetate	13718-28-0	N.I.S. etc.	184,99	mg/m3	N	7,56	NaTcO4	S							Radiation dose will dominate. Added
1843	Sodium phophate, bibasic	7558-79-4	SJH090	141,96	mg/m3	Y	5,80	HO4P.2Na	S	240dec						
1844	Sodium phosphate (tribasic)	7601-54-9	SJH200	163,94	mg/m3	Y	6,70	Na3PO4	S					1,62	2	T-3 uses 'iv' data
1845	Sodium phosphate dibasic heptahydrate	7782-85-6	SFZ000	383,05	mg/m3	N	15,66	HO4P.2Na.7H2O	S hygr		loses 5.H2O @ 40C				1	Listed in RTECS & HSDB Added
1846	Sodium phosphate monobasic	7558-80-7	SJH100	119,98	mg/m3	Y	4,90	Na-H2-P-O4	S						3	Added
1847	Sodium phosphate, dibasic dodecahydrate	10039-32-4	SFZ000	358,20	mg/m3	Y	14,64	HO4P.2Na.12H2O	S							T-3 uses 'ip' data All Ts changed.
1848	Sodium phosphate, tribasic dodecahydrate	10101-89-0	SFZ000	380,18	mg/m3	N	15,54	Na3PO4. 12H2O	S							
1849	Sodium phosphate, tribasic; (Sodium hexametaphosphate; Calgon)	10124-56-8	SHM500	611,76	mg/m3	Y	25,00	O18P6.6Na	S						3	
1850	Sodium phosphate, tribasic; (Sodium trimetaphosphate)	7785-84-4	SKM500	305,88	mg/m3	N	12,50	3Na.(PO3)3	S						3	T-3 uses 'ip' data T-0, T-1, T-2 changed.
1851	Sodium p-tert-amylphenate; (4-[1,1-dimethylpropyl]-phenol, sodium salt)	31366-95-7	SFZ000	186,25	mg/m3	N	7,61	C11-H15-O.Na								
1852	Sodium pyrophosphate, di-; (see also TEE500 for tetra-)	7758-16-9	DXF800	221,94	mg/m3	Y	9,07	H2O7P2.Na2	S	220 dec				1,862	3	
1853	Sodium selenate; (Disodium selenate)	13410-01-0	DXG000	188,94	mg/m3	N	7,72	SeO4.2Na	S/L					3,098	3	
1854	Sodium selenite	10102-18-8	SJT500	172,94	mg/m3	N	7,07	SeO3.2Na	S	710					3	
1855	Sodium silicate caustic; (Silicic acid, disodium salt)	6834-92-0	SJU000	122,07	mg/m3	Y	4,99	O3Si.2Na	S	1089				2,61	3	
1856	Sodium stannate	12058-66-1	SFZ000	212,69	mg/m3	N	8,69	Na2-Sn-O3	S							Added. As inorganic tin compound Ts = 3.5, 10.5, 30, 150 mg/m3. **SAR** not used.

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1857	Sodium stearate	822-16-2	SJV500	306,52	mg/m3	N	12,53	C18H36O2.Na	S						3	T-3 uses 'iv' data All Ts changed.
1858	Sodium strontium phosphate	z-0101	SFZ000	205,58	mg/m3	N	8,40	Na-Sr-PO4	S							Added. No toxicity data found **SAR**
1859	Sodium succinate	150-90-3	SJW100	162,06	ppm	N	6,62	Na2-C4-H4-O4	L						1	T-3 uses 'iv' data Added
1860	Sodium sulfate (anhydrous)	7757-82-6	SJY000	142,04	mg/m3	N	5,81	Na2SO4	S	888				2,671	2	T-2 changed.
1861	Sodium sulfhydrate; (Sodium hydrosulfide)	16721-80-5	SHR000	56,06	mg/m3	Y	2,29	HNaS	S	350					3	T-3 uses 'ip' data All Ts changed.
1862	Sodium sulfide hydrate	1313-82-2	SJY500	78,04	mg/m3	N	3,19	Na2S	S deliq	1172				1,856	3	
1863	Sodium sulfite	7757-83-7	SJZ000	126,04	mg/m3	N	5,15	O3S.2Na	S	dec				2,633	3	T-3 uses 'iv' data T-3 changed.
1864	Sodium tellurate	10101-83-4	SKC000	237,58	mg/m3	N	9,71	2Na-Te-O4	S						3	CASRN ex SAX Added
1865	Sodium tellurite	10102-20-2	SKC500	221,58	mg/m3	N	9,06	TeO3.2Na	S						3	T-2 changed.
1866	Sodium tetraphenyl borate	143-66-8	SFZ000	342,23	mg/m3	Y	13,99	C24H20BNa	S							
1867	Sodium thiosulfate	7772-98-7	SKI000	158,10	mg/m3	N	6,46	O3S2.2Na	S		dec				2	T-3 uses 'ip' data
1868	Sodium thiosulfate pentahydrate	10102-17-7	SKI500	248,20	mg/m3	N	10,14	Na2S2O3. 5H2O	S	48				1,69	2	T-3 uses 'ip' data
1869	Sodium trihydrogen silicate	z-0102	SFZ000	118,10	mg/m3	N	4,83	Na-H3-Si-O4	S							Added
1870	Sodium tripolyphosphate	7758-29-4	SFZ000	367,86	mg/m3	N	15,03	Na5-P3-O10	Pwdr	622						T-3 changed
1871	Sodium tungstate	13472-45-2	SKN500	293,83	mg/m3	N	12,01	O4W·2Na	S	695				4,179	3	
1872	Sodium uranate; (Sodium diuranate)	13721-34-1	SFZ000	742,00	mg/m3	N	30,33	Na2-U2-O7--6H2O	S						3	T-3 changed.
1873	Sodium uranium oxide	z-0103	SFZ000	634,03	mg/m3	Y	25,91	Na2-U2-O7	S						3	Added
1874	Sodium uranyl carbonate	z-0104	SFZ000	376,01	mg/m3	Y	15,37	Na-U-O2-CO3	S							Added
1875	Sodium zirconate	12201-48-8	SFZ000	199,24	mg/m3	Y	8,14	.2Na-Zr-O3	S							Added
1876	Sodium-o-benzyl-p-chlorophenate	3184-65-4	SFB200	241,68	mg/m3	N	9,88	C13-H11-Cl-O-Na	S						3	
1877	Sodium-Potassium	11135-81-2	PLS500	38,55	mg/m3	Y	1,58	Na-K	L/S						3	ERPGs for NaOH used. MW for 78wt.% K and 22 wt.% Na
1878	Soman; (3,3-Dimethyl-2-butanol methylphosphonofluoridate, GD)	96-64-0	SKS500	182,20	mg/m3	N	7,45	C7H16FO2P	L	-42	167	0,4	25	1.022 @ 20C	3	T-1, T-2 changed
1879	Squalene; (Hexamethyl-tetracosahexane)	111-02-4	SLG800	410,73	mg/m3	N	16,79	C30.H50	L	<-20	285	2	240	0,8584	2	
1880	Stannic chloride; (Tin(IV) chloride; Tin(IV) tetrachloride)	7646-78-8	TGC250	260,49	mg/m3	Y	10,65	Sn.Cl4	L	-33	114,1	10	10	2,232	3	T-3 changed.
1881	Stannous chloride; (Tin(II) chloride (1:2))	7772-99-8	TGC000	189,59	mg/m3	N	7,75	Sn.Cl2	S	246	623			2,71	3	T-3 changed.
1882	**Stibine**	7803-52-3	SLQ000	124,78	ppm	Y	5,10	SbH3	G	-88	-18,4	>760		2.26 @ -25	3	**ERPG-2, -3.**
1883	Stilbene 3; (Tinopal CBS, Disodium-4,4'-bis[2-sulfostyryl]biphenyl)	27344-41-8	TGE150	562,58	mg/m3	Y	22,99	C28H20O6S2.2Na	S						2	
1884	Stilbene 420	588-59-0	SLR000	180,26	mg/m3	N	7,37	C14H12	S	124-125	306-307			0,9707	3	T-3 uses 'ip' data
1885	Strontium	7440-24-6	SMD500	87,62	mg/m3	N	3,58	Sr	S	757	1366	10	898	2,6	3	
1886	Strontium carbonate	1633-05-2	SMH500	147,63	mg/m3	N	6,03	Sr-C-O3	S	1494	dec			3,5		Added. HSDB and TSCA MF = C-H2-O3-Sr, but HSDB MW =147.63 **SAR**

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1887	Strontium hydroxide	18480-07-4	SMH500	121,63	mg/m3	N	4,97	Sr-(OH)2	S							Added. In RTECS some toxicity data, TSCA **SAR**
1888	Strontium nitrate	10042-76-9	SMK000	211,64	mg/m3	Y	8,65	Sr(NO3)2	S	570	645			2,986	2	
1889	Strontium nitrite	z-0105	SMH500	179,62	mg/m3	N	7,34	Sr-(N-O2)2	S							Added. No toxicity data found **SAR**
1890	Strontium oxalate	814-95-9	SMH500	175,64	mg/m3	N	7,18	Sr-C2-O4	S							Added. TSCA MF = C2-H2-O4.Sr No toxicity data found **SAR**
1891	Strontium phosphate	14414-90-5	SMH500	452,80	mg/m3	N	18,51	Sr3-(P-O4)2	S							Added. RTECS MF = H3-O4-P.xSr, gives MW = 448.48 for x = 4 **SAR**
1892	Strontium sulfate	7759-02-6	SMH500	185,70	mg/m3	N	7,59	Sr-H2-SO4	S	1605				3.71-3.97	1	MF & MW ex H&N
1893	Strychnine & salts	57-24-9	SMN500	334,45	mg/m3	N	13,67	C21H22N2O2	S	268	270			1.359 @ 18 C	3	
1894	Strychnine sulfate (2:1)	60-41-3	SMP000	383,49	mg/m3	N	15,67	C21H22N2O2. 1/2H2O4S	S	200	270 @ 5 mm	1E-08	25	1.36 @ 20 C	3	Added
1895	**Styrene**	100-42-5	SMQ000	104,16	ppm	Y	4,26	C6.H5. CH=CH2	L	-30,6	145	5	20	0,9074	3	**ERPG-1, -2, -3**
1896	Styrene oxide; (1,2-Epoxyethylbenzene)	96-09-3	EBR000	120,16	ppm	Y	4,91	C8H8O	L	-36,7	194,2	0,3	20	1.0469 @ 25 C	3	
1897	Sulfamic acid	5329-14-6	SNK500	97,10	mg/m3	Y	3,97	H3NO3S	S	205	dec			2,1	3	
1898	Sulfonic acid; (Petroleum acid sulfonate)	61789-85-3	N.I.S.		mg/m3	N		Organic. (SO2OH)n	L							
1899	Sulfosalicylic acid	97-05-2	SOC500	218,19	mg/m3	Y	8,92	C7H6O6S	S	120					2	
1900	Sulfotep; (TEDP)	3689-24-5	SOD100	322,34	mg/m3	Y	13,17	C8H20O5P2S2	S	88	310	17000	25	1.19 @ 20 C	3	Added
1901	Sulfur	7704-34-9	SOD500	32,06	mg/m3	N	1,31	S	S	119	444,6	1	183,8	2,07	3	T-3 uses 'iv' data All Ts changed.
1902	**Sulfur dioxide**	7446-09-5	SOH500	64,06	ppm	Y	2,62	SO2	G	-75,6	-10,0	>760		1.434 liq @ 0 C	3	**ERPG-1, -2, -3**
1903	Sulfur hexafluoride	2551-62-4	SOI000	146,06	ppm	N	5,97	SF6	G	-51	1000 decomp	100		1.67 @ -100 C	1	T-3 uses 'iv' data
1904	Sulfur monochloride	10025-67-9	SON510	135,02	ppm	Y	5,52	S2Cl2	L	-77	138	10	27,5	1.6885 @15.5	3	
1905	Sulfur pentafluoride	5714-22-7	SOQ450	254,12	ppm	Y	10,39	F10S2	L	-53	26,7	561	25	2.08 @ 0 C	3	Added
1906	Sulfur tetrafluoride	7783-60-0	SOR000	108,06	ppm	Y	4,42	F4S	G	-121	-38			1.95 @ -78C	3	T-1 changed
1907	**Sulfur trioxide**	7446-11-9	SOR500	80,06	mg/m3	Y	3,27	O3S	L						3	**ERPG-1, -2, -3**
1908	**Sulfuric acid, Sulfur trioxide (7446-11-9), and Oleum (8014-95-7)**	7664-93-9	SOI500	98,08	mg/m3	Y	4,01	H2.SO4	L	10,6	290	1	146	1,834	3	**ERPG-1, -2, -3**
1909	Sulfurous acid	7782-99-2	SOO500	82,08	mg/m3	Y	3,35	H2-S-O3	V					1,03	3	Added. Exists only in solution
1910	Sulfuryl fluoride	2699-79-8	SOU500	102,06	ppm	N	4,17	F2O2S	G	-137	-55	12000	21	1.7 @ -55 C	3	Added
1911	Talc	14807-96-6	TAB750	96,33	mg/m3	Y	3,94	H2O3Si. 3/4Mg	S					2.7-2.8	2	
1912	Tallo oil (alkyd resin)	68333-62-0	N.I.S.		mg/m3	N		[Unspecified]	L							
1913	Tantalum(V) fluoride	7783-71-3	TAF250	275,95	mg/m3	N	11,28	TaF5	S	96,8	229,5	100	130	4,74	3	T-3 uses 'iv' data T-3 changed.
1914	Tantalum(V) oxide	1314-61-0	TAF500	441,90	mg/m3	Y	18,06	O5Ta2	S	1872				8,2	1	T-2 changed.
1915	Tartaric acid	87-69-4	TAF750	150,10	mg/m3	N	6,13	C4H6O6	S	170-172				1,76	2	T-3 uses 'iv' data All Ts changed.
1916	Technetium(IV) oxide	12036-16-7	N.I.S. etc.	130,00	mg/m3	N	5,31	TcO2	S							Radiation dose will dominate. Added

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1917	Tellurium	13494-80-9	TAJ000	127,60	mg/m3	N	5,22	Te	S	450	990	1	520	6,24	3	
1918	Tellurium chloride	10026-07-0	TAJ250	269,40	mg/m3	N	11,01	Te.Cl4	?	224	380			3,26	D	T-2, T-3 changed.
1919	Tellurium hexafluoride	7783-80-4	TAK250	241,60	ppm	N	9,87	Te.F6	G	-37.6 subl	-38.9 subl	>760		2.499liq @ -10 C	3	T-2, T-3 changed
1920	Tellurium oxide; (Tellurium dioxide)	7446-07-3	TAJ750	159,60	mg/m3	N	6,52	Te.O2	S	733	1245			5,89	3	T-3 changed
1921	Tellurous acid	10049-23-7	TAJ500	177,61	mg/m3	N	7,26	H2-Te-O3	V						2	Added
1922	Terbium oxide	12036-41-8	N.I.S.	365,85	mg/m3	N	14,95	Tb2-O3	S	2410				7,91		Added. Listed in TSCA, no toxicity data, PNOS used, no stable isotopes.
1923	Terbufos	13071-79-9	BSO000	288,45	mg/m3	N	11,79	C9H21O2PS3	L	-29	315	0,0003	25	1.105 @ 24 C	3	Added
1924	Terephthaloyl chloride	100-20-9	TAV250	203,02	mg/m3	Y	8,30	C8H4O2.Cl2	S	83-84	266				2	
1925	Terphenyl; p-	92-94-4	TBC750	230,32	mg/m3	Y	9,41	C18H14	S	212-213	259 @ 45 mm			1,234	2	T-0, T-1 changed
1926	Terphenyls; (Diphenylbenzene)	26140-60-3	TBD000	230,32	mg/m3	N	9,41	C18H14							2	T-0 changed
1927	Tert-butyl alcohol; (tert-Butanol)	75-65-0	BPX000	74,14	ppm	N	3,03	C4H10O	L	25,5	82,8	40	24,5	0,781	3	T-2 changed.
1928	Tetraamminepalladium(I) nitrate	13601-08-6	TBI000	298,54	mg/m3	Y	12,20	[(H3N)4Pd]9NO3)2	S						2	TSCA listed. No toxicity information. LD50 based on HR of 2. Added
1929	Tetrabromoethane, 1,1,2,2-; (Acetylene tetrabromide)	79-27-6	ACK250	345,68	ppm	Y	14,13	C2H2Br4	L	-1	151 @ 54 mm			2,9638	3	
1930	Tetrabutyl ammonium phosphate	z-0106	N.I.S. etc.		mg/m3	N		[Unknown]								
1931	Tetrabutyl titanate; (Butyl titanate)	5593-70-4	BSP250	340,42	ppm	N	13,91	Ti(OC4H9)4	L	-55	155			0,993	3	
1932	Tetrabutylammonium dihydrogen phosphate, mono/dibasic, & salt soln.	5574-97-0	N.I.S.	339,45	mg/m3	N	13,87	C16H36N. H2O4P	S							
1933	Tetrachlorobenzene, 1,2,3,4-	634-66-2	TEN740	215,88	mg/m3	Y	8,82	C6H2Cl4	S	46-47	254	0,039	25	1,7	2	
1934	Tetrachlorobenzene, 1,2,4,5-	95-94-3	TBN750	215,88	mg/m3	N	8,82	C6H2Cl4	S	138	245	<0.1	25	1,734	2	
1935	Tetrachlorodibenzofuran, 2.3.7.8-	51207-31-9	TBO850	305,96	mg/m3	N	12,51	C12H4Cl4O2	S	227-228					3	
1936	Tetrachlorodibenzo-p-dioxin, 1,2,3,8-	53555-02-5	TBO790	321,96	mg/m3	N	13,16	C12H4Cl4O2	S						D	
1937	Tetrachloroethane (mixed isomers)	25322-20-7	TBP750	167,84	ppm	N	6,86	C2H2Cl4	L						3	T-2 uses 'ip' data T-0, T-1, T-2 changed.
1938	Tetrachloroethane 1,1,1,2-	630-20-6	TBQ000	167,84	ppm	Y	6,86	C2H2Cl4	L	-68,1	135,1	14	25	1,542	2	
1939	Tetrachloroethane, 1,1,2,2-	79-34-5	TBQ100	167,84	ppm	N	6,86	CHCl2CHCl2	L	-43,8	146,4	5	20	1,6	3	
1940	Tetrachlorohexafluorobutane, 2,2,3,3-; (FLON; Freon substitute; CFC316)	375-34-8	N.I.S.	303,84	ppm	N	12,42	C4Cl4F6	G						2	
1941	**Tetrachlorosilane; (Silicon chloride)**	10026-04-7	SCQ500	169,89	ppm	Y	6,94	SiCl4	L	-70	57,57			1,482	3	**ERPG-1, -2, -3**
1942	Tetracyanoquinodimethan; (Scintillation Cocktail, Ultima Gold AB)	1518-16-7	TBW750	204,20	mg/m3	N	8,35	C12H4N4	S	293.5 subl					3	T-3 uses 'iv' data All Ts changed.
1943	Tetracycline hydrochloride	64-75-5	TBX250	280,94	mg/m3	N	11,48	C22H24N2O8.ClH	S	170-175	214 decom				3	
1944	Tetradecane	629-59-4	TBX750	198,44	ppm	N	8,11	C14-H30	L	5,5	252-255	1	76,4	0.765 @ 20 C	2	T-2 uses 'sk' data T-3 uses 'iv' data Added
1945	Tetradecanoic acid; (Myristic acid)	544-63-8	MSA250	228,36	mg/m3	Y	9,33	C14-H28-O2	S	54	326,2			0.8622 @ 54 C	3	T-3 uses 'iv' data Changed units Added
1946	Tetraethyl lead	78-00-2	TCF000	323,47	mg/m3	N	13,22	C8H20Pb	L	125-150	198-202	1	38,4	1,65918	3	T-3 changed.

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1947	**Tetraethyl orthosilicate; (Ethyl silicate; Tetraethoxysilane)**	78-10-4	EPF550	208,37	ppm	Y	8,52	SiC8H20O4	L	-77	165-166			0,933	3	**ERPG-1, -2, -3**
1948	Tetraethyl pyrophosphate; (TEPP)	107-49-3	TCF250	290,22	mg/m3	Y	11,86	C8H20O7P2	L		310	0,00047	25	1,2	3	Added
1949	Tetraethylenepentamine	112-57-2	TCE500	189,36	mg/m3	Y	7,74	C8H23N5	L	-40	333	<0.01	20	0,998	3	
1950	Tetraethyltin; (Tetraethylstannane)	597-64-8	TCF750	234,97	mg/m3	Y	9,60	Sn.C8H20	L	-112	181	2	25	1.187 @ 23 C	3	T-3 changed.
1951	Tetrafluoroethane, 1,1,1,2-; (HFC 134a)	811-97-2	EEC100	102,04	ppm	N	4,17	CH2FCF3	G		-26,2	96	25	1.21 liq	1	T-2 changed.
1952	**Tetrafluoroethylene**	116-14-3	TCH500	100,02	ppm	N	4,09	F2.C=CF2	G	-142	-78,4	>760			3	**ERPG-1, -2, -3**
1953	Tetrafluorohydrazine	10036-47-2	TCI000	104,00	ppm	Y	4,25	F2NNF2	G	-163	-73			1.5 @ -100 C	3	Added
1954	Tetrahydro-2,5-dimethyl furan	1003-38-9	Used TCQ250	100,18	mg/m3	Y	4,09	C6H12O	L						3	Listed in H&N; used Tetrahydrodimethylfuran CASRN 1320-94-1
1955	Tetrahydrofuran	109-99-9	TCR750	72,12	ppm	Y	2,95	C4H8O	L	-108,5	65,4	132	20	0,888	3	
1956	**Tetramethoxysilane; (Methyl silicate)**	681-84-5	MPI750	152,25	ppm	Y	6,22	C4H12O4Si	L	4 to 5	120-121			1.03 @ 22 C	3	**ERPG-2, -3**
1957	Tetramethyl Lead	75-74-1	TDR500	267,35	mg/m3	N	10,93	(CH3)4Pb	L	-27,5	110	0,2	20	1,99	3	T-1, T-2, T-3 changed.
1958	Tetramethyl-1,3-butanediamine, n,n,n',n'-; (Tetramethyl butanediamine)	97-84-7	TDN000	144,30	mg/m3	Y	5,90	C8H20N2	L						3	
1959	Tetramethyl-5-decyn-4,7-diol, 2,4,7,9-	126-86-3	N.I.S.	226,12	mg/m3	N	9,24	C14H26O2	L		~80					T-3 changed.
1960	Tetramethylammonium hydroxide	75-59-2	TDK500	91,18	mg/m3	Y	3,73	C4H12N.HO	L					1	3	
1961	Tetramethylsilane	75-76-3	TDV500	88,23	ppm	N	3,61	C4H12Si	L/S	-99	26-28			0,648	3	
1962	Tetranitromethane	509-14-8	TDY250	196,05	ppm	Y	8,01	C(NO2)4	L	-49,4	126,1	8	20	1.650 @ 13 C	3	
1963	Tetraphenylarsonium chloride; (Tetraphenylarsenium chloride)	507-28-8	TEA300	418,81	mg/m3	N	17,12	C24H20As.Cl	S	258-260					3	T-3 uses 'iv' data T-3 changed.
1964	Tetrapotassium ethylene-diaminetetraacetate; (EDTA)	5964-35-2	N.I.S.	444,64	mg/m3	N	18,17	C10-H12-N2-O8.4K	S							Added. EDTA tetrapotassium salt, MW corrected to match RTECS and TSCA MF. No tox data **SAR**
1965	Tetrapropylammonium hydroxide	4499-86-9	TED000	203,42	mg/m3	N	8,31	C12H28N.HO						1,012	3	
1966	Tetrasodium pyrophosphate	7722-88-5	TEE500	265,90	mg/m3	N	10,87	O7P2.4Na	S	993				2,534	3	
1967	Thallium (elemental and soluble compounds)	7440-28-0	TEI000	204,37	mg/m3	N	8,35	Tl	S	303,5	1457	1	825	11,85	3	
1968	Thallium carbonate (2:1)	6533-73-9	TEJ000	468,75	mg/m3	N	19,16	Tl2CO3	S	273	dec	<1E-6	25	7,11	3	T-3 uses 'sk' data T-0, T-1, T-3 xhanged.
1969	Thallium chloride; (Thallium(I) chloride)	7791-12-0	TEJ250	239,82	mg/m3	N	9,80	TlCl	S	430	720	10	517	7.004 @ 30 C	3	T-0, T-1, T-3 changed.
1970	Thallium hydroxide	12026-06-1	N.I.S.	221,39	mg/m3	N	9,05	Tl-OH	S	139 dec				7,44		Listed in TSCA and HC&P Added
1971	Thallium nitrate; (Thallium(I) nitrate)	10102-45-1	TEK750	266,38	mg/m3	N	10,89	NO3.Tl	S	206	430			5,55	3	T-2, T-3 changed.
1972	Thallium nitrite	13826-63-6	N.I.S.	250,38	MG/M3	N	10,23	Tl-N-O2	S					5,7		Listed in HC&P Added
1973	Thallium oxide	1314-12-1	TEL000	424,74	mg/m3	N	17,36	OTl2	S	579	~1080			9,52	3	Pchem data ex HC&P, sol in H2O Added
1974	Thallium sulfate; (Sulfuric acid, dithallium(1+) salt)	10031-59-1	TEL750	1526,25	mg/m3	N	62,38	Tlx.SO4	S	632	decom			6,77	3	. RTECS & HSDB MW = 1528.67
1975	Thallium(I) acetate; (Acetic acid, thallium(1+) salt)	563-68-8	TEI250	263,42	mg/m3	N	10,77	Tl.C2H3O2	S	131				3,68	3	T-3 changed.
1976	Thallium(I) sulfate; (Sulfuric acid, dithallium(1+) salt)	7446-18-6	TEM000	504,80	mg/m3	N	20,63	Tl2.SO4	S	632	decom			6,77	3	All Ts changed.

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1977	Thallium(III) oxide	1314-32-5	TEL050	456,74	mg/m3	N	18,67	Ti2.O3	S	717	1196			9,65	3	
1978	Thallous malonate	2757-18-8	TEM399	510,79	mg/m3	N	20,88	2Tl.C3H2O4	S						3	T-3 changed.
1979	Thenoyl trifluoroacetone	326-91-0	N.I.S.	222,09	mg/m3	N	9,08	C8H5F3O2S	S	40-44	96 @ 88 mm					
1980	Thioacetamide	62-55-5	TFA000	75,14	mg/m3	N	3,07	C2H5NS	S	113					3	
1981	Thiobis(4-chloro-6-methyl)-phenol, 2,2'-	4418-66-0	DMN000	315,22	mg/m3	N	12,88	C14H12Cl2O2S	S		443	0,0000001	25		3	Added
1982	Thiocarbazide; (Thiocarbohydrazide)	2231-57-4	TFE250	106,17	mg/m3	N	4,34	CH6N4S	S	164					3	
1983	Thiodiglycol	111-48-8	TFI500	122,20	mg/m3	Y	4,99	C4H10O2S	L	-16	164-166 @ 20mm			1.1847 @ 20C	2	
1984	Thiofanox; (Dacamox)	39196-18-4	DAB400	218,35	mg/m3	N	8,92	NC9H18 N2O2S	S	56.5->					3	
1985	Thionazin; (Ethyl pyrazinyl phosphorothioate)	297-97-2	EPC500	248,26	mg/m3	N	10,15	C8H13N2O3PS	L	-1,7	80	0,003	30	1.204-1.210 @ 25 C	3	Added
1986	**Thionyl chloride**	7719-09-7	TFL000	118,96	ppm	Y	4,86	Cl2OS	L	-105	78,8	100	21,4	1.640 @15.5C	3	**ERPG-1, -2, -3**
1987	Thiosemicarbazide	79-19-6	TFQ000	91,15	mg/m3	N	3,73	CH5N3S	S	182-184					3	
1988	Thiourea	62-56-6	ISR000	76,13	mg/m3	Y	3,11	CH4N2S	S	177	dec			1,405	3	
1989	Thiram; (Thioperoxydicarbonic diamide [(H2N)C(S)]2S2, tetramethyl-)	137-26-8	TFS350	240,44	mg/m3	Y	9,83	C6H12N2S4	S	156	129 @ 20 C	0,000017	25	1,3	3	
1990	Thorium	7440-29-1	TFS750	232,00	mg/m3	N	9,48	Th	S	1750	4500			11,72	3	
1991	Thorium hydroxide	z-0107	N.I.S.	300,07	mg/m3	N	12,26	Th(OH)4	S							Added. No toxicity data found **SAR**
1992	Thorium nitrite	z-0108	N.I.S.	416,03	mg/m3	N	17,00	Th(NO2)4	S							Added. No toxicity data found **SAR**
1993	Thorium oxide	1314-20-1	TFT750	264,00	mg/m3	N	10,79	O2Th	S	3390	4400			9,7	3	T-2 uses 'iv' data T-0, T-1 changed.
1994	Thorium(IV) nitrate	13823-29-5	TFT500	480,04	mg/m3	N	19,62	N4O12.Th	S	500 dec					3	T-3 uses 'ip' data T-3 changed.
1995	Thulium chloride heptahydrate (as TmCl3)	13537-18-3	TFW500	275,28	mg/m3	Y	11,25	Cl3Tm	S	824	1440				3	T-0, T-1, T-2 changed
1996	Thulium oxide	12036-44-1	N.I.S.	385,87	mg/m3	N	15,77	Tm2-O3	S	2425				8,6		Added. Listed in TSCA, no toxicity data, PNOS used, no stable isotopes.
1997	Thymol blue; (6,6[3H-2,1-benzoxathiol-3-ylidene]di-,s,s-dioxide)	76-61-9	TFX850	466,63	mg/m3	N	19,07	C27H30O5S	S	223					D	
1998	Thyodene; (Amylodextrin)	9005-84-9	N.I.S.		mg/m3	N		[Unknown]	S							Listed in TSCA and H&N
1999	Tin	7440-31-5	TGB250	118,71	mg/m3	N	4,85	Sn	S	231,9	2625	1	1492	7,31	2	T-2 changed.
2000	Tin hydroxide	12026-24-3	N.I.S.	152,73	mg/m3	N	6,24	Sn-(OH)2	S							Listed in TSCA and HC&P. Added
2001	Tin nitrate	z-0109	N.I.S. etc.	242,68	mg/m3	N	9,92	Sn-(N-O3)2	S							Added
2002	Tin nitrite	z-0110	N.I.S. etc.	210,69	mg/m3	N	8,61	Sn-(N-O2)2	S							Added
2003	Tin(II) oxide	1332-29-2	TGE300	150,69	mg/m3	N	6,16	Sn-O2	S	1630	1800+ subl			6,95	2	T-3 changed.
2004	Titanium	7440-32-6	TGF250	47,90	mg/m3	N	1,96	Ti	S	1677	3277			4,5	3	
2005	Titanium chloride	7705-07-9	TGG250	154,25	mg/m3	Y	6,30	Cl3Ti	L	-30	136,4	10	21,3	1,772	3	
2006	Titanium hydride	7704-98-5	N.I.S.	49,92	mg/m3	N	2,04	Ti.H2								RTECS data

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2007	Titanium oxide; (Titanium dioxide)	13463-67-7	TGG760	79,90	mg/m3	Y	3,27	O2Ti	S	18	1860 dec			4,26	1	
2008	**Titanium tetrachloride**	7550-45-0	TGH350	189,70	mg/m3	Y	7,75	Ti.Cl4	L	-24	136,4	12	25	1,726	3	**ERPG-1, -2, -3**
2009	Titanium(II) oxide	12137-20-1	TGG500	63,88	mg/m3	N	2,61	TiO	S						D	
2010	Titanium(III) fluoride	7783-63-3	TGG500	104,88	mg/m3	Y	4,29	TiF3	S	1200	1400			3,4	D	
2011	Titanium-based alloy; (Titanium compounds)	z-0111	TGG500		mg/m3	N		[Unspecified]	S						D	
2012	**Toluene**	108-88-3	TGK750	92,15	ppm	Y	3,77	C6.H5.CH3	L	-95	111,1	20	18,3	0,866	3	**ERPG-1, -2, -3**
2013	**Toluene 2,6-diisocyanate**	91-08-7	TGM800	174,17	ppm	Y	7,12	C9H6N2O2	L		129-133 @18mm				3	**ERPG-1, -2, -3** T-1, T-2, T-3 changed.
2014	**Toluene diisocyanate, 2,4-; (TDI)**	584-84-9	TGM750	174,17	ppm	Y	7,12	CH3C6H3 (NCO)2	S/L	21,7	251,1	0,01	25	1,2244	3	**ERPG-1, -2, -3**
2015	Toluene-1,3-diisocyanate	26471-62-5	TGM740	174,17	ppm	Y	7,12	C9H6N2O2							3	
2016	Toluene-2,6-diamine; (Benzenediamine, 2-methyl-1,2-)	823-40-5	TGM100	122,19	mg/m3	N	4,99	C7H10N2	S	105			2.13 kPa	150	3	LD50 estimated
2017	Toluenediamine, 2,4-; (2,4-Diaminetoluene)	95-80-7	TGL750	122,19	mg/m3	Y	4,99	C7H10N2	S	99	292	1	107		3	T-3 uses 'ip' data T-3 changed.
2018	Toluenethiol, m-	108-40-7	TGO800	124,21	mg/m3	N	5,08	C7H8S							3	T-3 uses 'ip' data All Ts changed.
2019	Toluidene, o-	95-53-4	TGQ750	107,17	ppm	N	4,38	CH3C6H4 NH2	L	-14,4	200	0,3	20	1,004	3	
2020	Toluidine, m-	108-44-1	TGQ500	107,17	ppm	Y	4,38	C7H9N	L	-43,6	203,3	1	41	0,989	3	
2021	Toluidine, p-; (4-Methylbenzenamine)	106-49-0	TGR000	107,17	mg/m3	Y	4,38	C7H9N	L	42	82.2 @ 10 mm	1	42	1.046 @ 20 C	3	
2022	Toxaphene; (Chlorinated camphene)	8001-35-2	CDV100	413,80	mg/m3	Y	16,91	C10H10Cl8	S	65-90				1.66 @ 27 C	3	
2023	Trans-1,4-dichlorobutene; (2-Butylene dichloride)	110-57-6	BRG000	125,00	ppm	Y	5,11	C4H6Cl2	L	35797	156	6	25	1.183 @ 25 C	3	Added
2024	Tri (2-ethyl hexyl) phosphate; (Tris….)	78-42-2	TNI250	434,72	mg/m3	Y	17,77	C24H51O4P	L	-74	226,9	0,03	20	0,9077	2	
2025	Triacetin; (Triacetyl glycerin)	102-76-1	THM500	218,23	mg/m3	Y	8,92	C9H14O6	L	-78	258			1,161	3	
2026	Triamiphos	1031-47-6	AIX000	294,34	mg/m3	N	12,03	C12H19N6OP	S	167-168	400	0,0000001	25		3	Added
2027	Triazofos; (Triazophos)	24017-47-8	THT750	313,34	mg/m3	N	12,81	C12H16N3O3PS	L	5	350	0,00001	25	1.25 @ 20 C	3	Added
2028	Tributyl phosphate	126-73-8	TIA250	266,36	ppm	Y	10,89	(C4H9)3.PO4	L	<-80.0	289 dec	0,07		0,982	3	
2029	Tributyl(2,4-dichlorobenzyl)phosphonium chloride	115-78-6	THY500	397,83	mg/m3	Y	16,26	C19H32Cl2P.Cl	S	114-120					3	
2030	Tributyltetradecylphosphonium chloride	81741-28-8	N.I.S.		mg/m3	N		[Unknown]	S							PNOS used.
2031	Trichloro(dichlorophenyl) silane	27137-85-5	DGF200	280,43	ppm	Y	11,46	C6H3Cl5Si	L		260	70	25	1,562	3	Added
2032	Trichloro-2,2,2-trifluoroethane, 1,1,1-	354-58-5	TJE100	187,37	mg/m3	N	7,66	C2Cl3F3	L	14,2	45,8	360	25	1,579	3	
2033	Trichloroacetaldehyde hydrate; (Chloral hydrate)	302-17-0	CDO000	165,40	mg/m3	N	6,76	C2HCl3O.H2O	S	52	97,5			1,9	3	
2034	Trichloroacetaldehyde monohydrate; (Chloral)	75-87-6	CDN550	147,38	mg/m3	N	6,02	C2HCl3O	L	-57,5	97,7	35		1,505	3	T-3 uses 'ip' data All Ts changed.
2035	Trichloroacetic acid	76-03-9	TII250	163,38	ppm	Y	6,68	C2HCl3O2	S del	57,7	197,5	1	51	1,62	3	T-2 uses 'ip' data T-2 changed.
2036	Trichloroacetyl chloride	76-02-8	TIJ150	181,82	ppm	Y	7,43	C2-Cl4-O	L	-146	114-116	21,32	25	1,629	2	HSDB has MP = -31.8 C Added

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2037	Trichloroamine; (Nitrogen chloride)	10025-85-1	NGQ500	120,36	ppm	N	4,92	Cl3N	L	< -40	< 71	150	20	1,653	3	
2038	Trichlorobenzene, 1,2,3-	87-61-6	TIK100	181,44	mg/m3	N	7,42	C6H3Cl3	S	52,6	221			1,69	2	T-3 uses 'ip' data T-0, T-1, T-2 changed.
2039	Trichlorobenzene,1,2,4-	120-82-1	TIK250	181,44	ppm	Y	7,42	C6H3Cl3	L	17	213	1	38	1,454	3	
2040	**Trichloroethane, 1,1,1-; (Methyl chloroform)**	71-55-6	MIH275	133,40	ppm	Y	5,45	CH3CCl3	L	-30,6	73,9	100	20	1,3376	3	**ERPG-1, -2, -3**
2041	Trichloroethane, 1,1,2-	79-00-5	TIN000	133,40	ppm	Y	5,45	CHCl2CH2Cl	L	-36,7	113,9	1920	20	1,4416	3	
2042	**Trichloroethylene**	79-01-6	TIO750	131,38	ppm	Y	5,37	CH.Cl=C.Cl2	L	-72,8	87,2	58	20	1,4649	3	**ERPG-1, -2, -3**
2043	Trichloroethylsilane; (Ethyl trichlorosilane)	115-21-9	EPY500	163,51	ppm	Y	6,68	C2H5Cl3Si	L	-105,6	97,9	47,18	25	1.24 @ 25 C	3	T-0, T-1, T-2 changed.
2044	Trichlorofluoromethane; (Fluorotrichloromethane, Freon 11)	75-69-4	TIP500	137,36	ppm	Y	5,61	C.Cl3.F	L<23.9	-111,1	23,9	690	20	1.48 @ 17.2 C	2	
2045	Trichloronate; (Ethyl trichlorophenylethylphosphonothioate)	327-98-0	EPY000	333,60	mg/m3	N	13,63	C10H12Cl3O2PS	L		360	20	25	1.365 @ 20 C	3	Added
2046	Trichlorophenol, 2,3,6-	933-75-5	TIV500	197,44	mg/m3	N	8,07	C6H3Cl3O	S	58	253				3	T-3 uses 'ip' data All Ts changed.
2047	Trichlorophenol, 2,4,5-	95-95-4	TIV750	197,44	mg/m3	N	8,07	C6H3Cl3O	S	61-63	252	1	72	1,678	3	
2048	Trichlorophenol, 2,4,6-	88-06-2	TIW000	197,44	mg/m3	N	8,07	C6H3Cl3O	S	68	244,5	1	77	1,675	3	T-2 changed.
2049	Trichlorophenoxy)propionic acid, 2-; (2,4,5-Silvex)	93-72-1	TIX500	269,51	mg/m3	N	11,02	C9H7Cl3O	S	182					3	
2050	Trichlorophenoxyacetic acid, 2,4,5-; (2,4,5-T)	93-76-5	TAA100	255,48	mg/m3	N	10,44	C8H5Cl3O3	S	151-3					3	
2051	Trichlorophenylsilane	98-13-5	TJA750	211,55	mg/m3	Y	8,65	C6H5ClSi	L		201			1.321 @ 25 C	3	
2052	Trichloropropane, 1,2,3-	96-18-4	TJB600	147,43	ppm	Y	6,03	CH2ClCHCl CH2Cl	L	-15	156,17			13888	3	PEL-TWA not used
2053	**Trichlorosilane**	10025-78-2	TJD500	135,45	ppm	Y	5,54	Cl3HSi	L	-126,5	31,8	fumes		1,336	3	**ERPG-1, -2, -3**
2054	Trichlorotrifluorethane; (Freon 113, or CFC113)	76-13-1	FOO000	187,37	ppm	Y	7,66	CF3.C.Cl3	L	-35	47,8	285	20	1,5702	1	
2055	Tridecane	629-50-5	TJH500	184,41	mg/m3	N	7,54	C13H28	L	-6,2	234			0,757	2	T-3 uses 'iv' data T-0, T-1, T-2 changed.
2056	Triethanolamine; (Trihydroxytriethylamine)	102-71-6	TKP500	149,22	mg/m3	Y	6,10	C6H15NO3	L	21,6	360	10	205	1,1258	2	
2057	Triethoxysilane	998-30-1	TJM750	164,31	ppm	N	6,72	C6H12O3sI	L	-170	132,5	23	25	0.8545 @ 20 C	3	T-2 changed
2058	Triethyl phosphate	78-40-0	TJT750	182,18	mg/m3	N	7,45	C6H15)4P	L	-56,5	215-216	0,39	25	1.0725 @ 19C	2	
2059	Triethyl phosphite	122-52-1	TJT800	166,18	ppm	Y	6,79	C6H15O3P	L		156			1,413	3	
2060	Triethylamine	121-44-8	TJO000	101,22	ppm	Y	4,14	C6H15N	L	-114,8	89,5			0,7255	3	PEL-TWA not used
2061	Triethylbenzene, 1,2,4-; (Triethylbenzene, mixed isomers)	25340-18-5	TJO750	162,30	ppm	N	6,63	C12H18	L	<-70	218-219			0,87	3	
2062	Triethylene glycol	112-27-6	TJQ000	150,20	mg/m3	Y	6,14	C6H14O4	L	-4,3	285	1	114	1,122	3	
2063	Triethylene glycol monomethyl ether	112-35-6	TJQ750	164,23	mg/m3	Y	6,71	C7H16O4	L	-44	249			1,0494	1	
2064	Triethylenetetramine	112-24-3	TJR000	146,28	mg/m3	Y	5,98	C6H18N4	L	12	272	<0.01	20	0,982	3	
2065	Trifluoroacetic acid; (Trifluoroethanoic acid)	76-05-1	TKA250	114,03	ppm	N	4,66	C2HF3O2	L	-15,25	71,1			1,535	3	
2066	Trifluoroacetyl chloride	354-32-5	TJX500	132,47	ppm	Y	5,41	C2ClF3O	L						2	Added

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2067	Trifluoro-l-(2-thienyl)-1,3-butanedione (4,4,4-) boron difluoride	22502-27-8	N.I.S.	272,01	mg/m3	N	11,12	C8-H6-B-F5-O2-S								T-3 uses 'iv' data All Ts changed.
2068	Trifluoromethyl)benzenamine, 3-(; (m-Aminobenzyl fluoride)	98-16-8	AID500	161,14	mg/m3	N	6,59	C7H6F3N	L	3	189			1,303	3	Added
2069	Trifluralin; (2,6-dinitro-N,N-dipropyl-4-(trifluoromethyl) benzenamine	1582-09-8	DUV600	335,32	mg/m3	N	13,70	C13H16 F3N3.O4	S	48.5-49	139-140 @ 4mm				2	
2070	Triheptylamine, 6,6',6''-trimethyl-; (Triisooctylamine)	2757-28-0	TKS500	353,76	mg/m3	Y	14,46	C24H51N							2	
2071	**Trimethoxysilane**	2487-90-3	TLB750	122,22	ppm	Y	5,00	C3H10O3Si	L	-115	84			0,96	2	**ERPG-1, -2, -3**
2072	Trimethyl phosphate; (TMP)	512-56-1	TMD250	140,09	ppm	N	5,73	(CH3)3P:O	L		197,2			1.97 @19.5	3	T-2 uses 'ip' data T-0, T-1 changed.
2073	Trimethyl phosphite; (TMP)	121-45-9	TMD500	124,09	ppm	Y	5,07	(CH3))3P	L	-78	111-112			1,046	3	
2074	Trimethyl-1,3-pentanediol monoisobutyrate2,2,4-; (Texanol)	25265-77-4	TEG500	216,36	mg/m3	N	8,84	C12H24O3							2	
2075	Trimethyl-2,5,8,11-tetraoxatetradecan-13-ol, 4,7,10-	20324-34-9	N.I.S. etc.	264,36	mg/m3	N	10,80	C13.H28.O5								T-3 changed
2076	Trimethyl-2-hexene, 4,4,5-	55702-61-9	N.I.S. etc.	126,00	mg/m3	N	5,15	(CH3)3-C6-H9								T-3 changed
2077	**Trimethylamine**	75-50-3	TLD500	59,13	ppm	Y	2,42	(CH3)3.N	G	-117,2	2,87	340	25	0.662 @ -5 C	3	**ERPG-2, -3; ignored ERPG-1**
2078	Trimethylaniline, 2,4,6-	88-05-1	TLG500	135,23	mg/m3	Y	5,53	C9H13N	L	-5	232			0,96	3	
2079	Trimethylbenzene, 1,2,3-	526-73-8	TLL500	120,21	ppm	N	4,91	C9H12	L	-25,4	176,1	1	17	0,894	3	
2080	Trimethylbenzene, 1,2,4-; (Pseudocumene)	95-63-6	TLL750	120,21	ppm	N	4,91	C9H12	L	-43,8	168,9	1	13,3	0.888 @ 4 C	3	Ts and units changed.
2081	**Trimethylchlorosilane**	75-77-4	TLN250	108,66	ppm	Y	4,44	C3H9ClSi	L	-40	57			0,854	3	**ERPG-1, -2, -3**
2082	Trimethyldecane, 2,2,8-	62238-01-1	N.I.S. etc.	184,00	ppm	Y	7,52	C13H28								NIOSH limits for Alkanes used. Added
2083	Trimethyldecane, 2,5,6-	62108-23-0	N.I.S. etc.	184,00	ppm	Y	7,52	C13H28								NIOSH limits for Alkanes used. Added
2084	Trimethyldecane, 3,3,4-	62338-09-4	N.I.S. etc.	184,00	ppm	Y	7,52	C13-H28	L						2	All Ts changed. NIOSH limits for Alkanes used
2085	Trimethylhexane, 2,2,5-	3522-94-9	TLT200	128,29	ppm	Y	5,24	C9-H20	L		124			0,7072	1	All Ts changed. NIOSH limits for Alkanes used
2086	Trimethyloctane, 2,2,6-	62016-28-8	N.I.S. etc.	156,31	ppm	Y	6,39	C11-H24								NIOSH limits for Alkanes used. Added
2087	Trimethyloctane, 2,3,6-	98060-52-7	N.I.S. etc.	156,31	ppm	Y	6,39	C11-.H24	G		10,7	760	10,7	0,8711		All Ts changed. NIOSH limits for Alkanes used
2088	Trimethyloctane, 2,3,7-	62016-34-6	N.I.S. etc.	156,31	ppm	Y	6,39	C11-H24								NIOSH limits for Alkanes used. Added
2089	Trimethyloctane, 2,4,6-	62016-37-9	N.I.S. etc.	156,31	ppm	Y	6,39	C11-H24								NIOSH limits for Alkanes used. Added
2090	Trimethyloctane, 2,6,6-	54166-32-4	N.I.S. etc.	156,31	ppm	Y	6,39	C11-H24								NIOSH limits for Alkanes used. Added
2091	Trimethylolpropane phosphite	824-11-3	TNI750	162,14	mg/m3	Y	6,63	C6-H11-O3-P	S	56	200	0,2	25		3	Added
2092	Trimethylpentane, 2,2,4-	540-84-1	TLY500	114,26	ppm	Y	4,67	C8-H18	L	-107,5	99,2	40,6	21	0,692	3	All Ts changed. NIOSH limits for Alkanes used. MF corrected
2093	Trimethylpyridine, 2,4,6-	108-75-8	TME272	121,20	ppm	Y	4,95	C8-H11-N							3	All Ts changed
2094	Trimethylsilanol	1066-40-6	N.I.S.	90,00	ppm	N	3,68	C3-H10-O-Si								Added. Listed in TSCA, no toxicity data found **SAR**
2095	Trimethyltin chloride; (Chlorotrimethylstannane)	1066-45-1	CLT000	199,26	mg/m3	Y	8,14	Sn.C3H9Cl	S	42	154-156	3	25		3	T-3 changed.
2096	Trinitrobenzene 1,3,5-	99-35-4	TMK500	213,12	mg/m3	N	8,71	C6H3N3O6	S	122	expl			1,76	3	

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2097	Trinitrochlorobenzene, 2,4,6- (Picryl chloride)	28260-61-9	TML325	247,56	mg/m3	N	10,12	C6H2ClN3O6	S						3	
2098	Trinitrophenylmethyl-nitramine, 2,4,6-; (Tetryl)	479-45-8	TEG250	287,17	mg/m3	Y	11,74	C7H5N5O2	S	131-132	187 expl			1.57 @ 19C	3	
2099	Trinitrotoluene, 2,4,6-	118-96-7	TMN490	227,15	mg/m3	Y	9,28	C7H5N3O6	S	82	240 expl			1,654	3	
2100	Tri-n-octyl phosphine oxide; (Trioctylphophinic oxide)	78-50-2	N.I.S.	386,00	mg/m3	N	15,78	(C8H17)3PO	S	50-54						
2101	Trioctylamine; (n,n-Dioctyl-1-octanamine)	1116-76-3	DVL000	353,76	mg/m3	N	14,46	C24H51N	L		365-367			0,809	3	T-3 uses 'ip' data All Ts changed.
2102	Tri-o-tolyl phosphate; (Triorthocresyl phosphate)	78-30-8	TMO600	368,39	ppm	N	15,06	C21H21O4P	L	-25 -30	410			1,17	3	
2103	Triphenol sulfonium chloride; (Triaryl sulfonium chloride salts)	109037-76-5	N.I.S.	284,04	mg/m3	Y	11,61	C6H6.Cl2S2. Cl2	S							
2104	Triphenyl phosphate	115-86-6	TMT750	326,30	mg/m3	N	13,34	C18H15O4P	S	49-50	245 @ 11 mm	1	193,5	1.268 @ 60C	3	T-2 changed.
2105	Triphenylphosphorane; (Carbethoxyethylidine)	5717-37-3	N.I.S. etc.	348,38	mg/m3	N	14,24	C22.H21.O2.P	S						3	
2106	Triphenyltin chloride; (Chlorotriphenylstannane)	639-58-7	CLU000	385,47	mg/m3	Y	15,75	Sn.ClC18H15	S	106	240 @ 13.5 mm				3	T-3 changed.
2107	Tripotassium (2-hydroxyethyl)-ethylenediaminetriacetate; (HEDTA)	z-0112	N.I.S. etc.	395,55	ppm	N	16,17	K3-C10-H18-N2-O7	S							SAX No. HKS000 lists HEDTA as synonym for "N-hydroxyethylenediaminetriacetic acid" T-0, T-1, T-3 changed.
2108	Tripotassium arsenate	z-0113	N.I.S. etc.	256,19	mg/m3	N	10,47	3K-As-O4 or 3K-As-(OH)3	S							CASRN = 10124-50-2, RTECS, H&N MW=399.65 (I.e., K7), HSDB, CHRIS MW = 253.93 Added
2109	Tripropylene glycol monomethyl ether; {2-Propanol,1-[2-(2-methoxy-1-methylethoxy)-1-methylethoxy]-{}	20324-33-8	TNA000	206,32	ppm	Y	8,43	C10-H22-O4	L		243			0.967 @ 25c	2	T-2 uses 'sk' data Added
2110	Tripropylene glycol; (2-Propanol, 1,1-[(1-methyl-1,2-ethanediyl)bis(oxy)]bis-)	1638-16-0	TMZ000	192,29	ppm	N	7,86	HO-(C3-H6-O).2(C3-H6-OH) (C9-H20-O4)?	L	< -30	267	1	96	1.023 @ 25C	3	SAX, RTECS, HSDB CASRN = 24800-44-0, TSCA lists both CASRNs. MF questionable. Added
2111	Tris(2-chloroethyl)amine; (Nitrogen mustard 3)	555-77-1	TNF250	204,57	mg/m3	Y	8,36	C6H12Cl3N	L	-4	98 @ 2mm			1.2347 @4/25	3	
2112	Tris(dimethylaminomethyl)phenol, 2,4,6-	90-72-2	TNH000	265,45	mg/m3	Y	10,85	C15H27N3O							2	
2113	Tris-hydroxymethylaminomethane; (THAM)	77-86-1	TEM500	121,16	mg/m3	N	4,95	C4H11NO3	S	171-172	219-220 @10mm				2	
2114	Trisodium arsenate	13464-38-5	N.I.S.	207,89	mg/m3	N	8,50	3Na-As-O4 or 3Na-As-(OH)3	S							TSCA, H&N MF (so MW = 210.91) different from RTECS MF and MW Added
2115	Trisodium arsenate, heptahydrate; (Arsenic(V) acid, trisodium salt, heptahydrate (1:3:7))	64070-83-3	ARE000	334,03	mg/m3	N	13,65	AsO4.3Na.7H2O								T-3 changed.
2116	Trisodium citrate	68-04-2	TNL000	258,08	ppm	Y	10,55	3Na-C6-H5-O7	S		dec				3	T-3 uses 'ip' data TSCA has different MF Added
2117	Trisodium ethylenediaminetriacetate	139-89-9	N.I.S.	344,22	mg/m3	N	14,07	C10-H18-N2-O7.3Na	S	288				1,285		Added. RTECS, HSDB, TSCA give same MF,.which gives MW =347.27 **SAR**
2118	Triton X-100; (Poly(oxyethjylene)-p-tert-octylphenyl ether)	9002-93-1	PKF500		mg/m3	Y		(C2H4O)n.C14H22O (n=5-15)	L					1,0595	2	
2119	Trypan blue	72-57-1	CMO250	964,88	mg/m3	N	39,44	C34H28N6 O14S4.4Na	S						3	
2120	Tungsten	7440-33-7	TOA750	183,85	mg/m3	Y	7,51	W	S	3410	5900			19,3	3	
2121	Tungsten hexafluoride	7783-82-6	TOC550	297,85	mg/m3	Y	12,17	WF6	G	2,3	17,5			13,069	3	T-2, T-3 changed.
2122	Tungsten trioxide; (Tungsten(VI) oxide)	1314-35-8	TOC750	231,85	mg/m3	Y	9,48	O3W	S pwdr	1773				7,16	2	T-2 changed.
2123	Tungsten(IV) oxide	12036-22-5	N.I.S.	215,84	mg/m3	Y	8,82	WO2	S	1500-1700				10,8	2	
2124	Tungstic acid	7783-03-1	N.I.S.	249,85	mg/m3	Y	10,21	W-H2-O4	S	100 dec				5,5		Added. Listed in TSCA, no toxicity data. Insoluble W compound
2125	Undecane	1120-21-4	UJS000	156,35	ppm	N	6,39	C11H24	L	-25,75	195,6			0,7402	3	

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2126	Undecanone, 2-; (Methyl nonyl ketone)	112-12-9	UKS000	170,33	ppm	N	6,96	C11-H22-O	L	12	223			0.829 @ 30 C	2	RTECS mu ip TDlo data inserted. Added
2127	Uranine; (Fluorescein sodium)	518-47-8	FEW000	376,28	mg/m3	N	15,38	C20H10O5.Na	S						2	T-2 uses 'iv' data T-0, T-1, T-2 changed.
2128	Uranium	7440-61-1	UNS000	238,00	mg/m3	Y	9,73	U	S	1147,2	3812,2	~0	20	18,95	3	Insoluble PEL-TWA used. T-0 changed
2129	Uranium black oxide; (Uranium[IV] oxide)	1344-57-6	UPJ000	270,03	mg/m3	N	11,04	UO2	S	2875					3	Insoluble compound. T-0 changed
2130	**Uranium hexafluoride; (Uranium fluoride)**	7783-81-5	UOJ000	352,00	mg/m3	Y	14,39	U.F6	S	64	56 subl			5,06	3	**ERPG-1, -2, -3**
2131	Uranium hydride; (Uranium(III) hydride)	13598-56-6	UPA000	241,06	mg/m3	Y	9,85	UH3	S						3	T-0 changed.
2132	Uranium oxide; (Triuranium octaoxide)	1344-59-8	N.I.S.	842,00	mg/m3	N	34,41	U3O8	S						3	Insoluble compound. T-0 changed
2133	Uranium telluride	z-0114	N.I.S. etc.	1224,08	mg/m3	Y	50,03	U3Te4	S						3	Insoluble U compound T-0, T-2, T-3 changed.
2134	Uranium telluride-2	12138-37-3	N.I.S.	493,23	mg/m3	Y	20,16	UTe2	S?						3	Insoluble U compound T-0, T-2, T-3 changed.
2135	Uranium: insoluble compounds	z-0115	UNS000		mg/m3	Y		[Unspecified]	S	varies	varies	varies			3	Insoluble compound. T-0 changed
2136	Uranium: soluble compounds	z-0116	UNS000		mg/m3	Y		[Unspecified]	S	varies	varies	varies			3	
2137	Uranyl acetate; (Uranium oxyacetate)	541-09-3	UPS000	424,19	mg/m3	Y	17,34	C4H6O6U. 2H2O	S	110 loss H2O	275 dec			2,893	3	T-2, T-3 changed.
2138	Uranyl hydroxide	z-0117	N.I.S.	304,04	mg/m3	Y	12,43	UO2-(OH)2	S						3	Added
2139	Uranyl hydroxide (liquids)	z-0118	N.I.S. etc.	304,04	mg/m3	Y	12,43	U-O2-(OH)2	L							Added
2140	Uranyl nitrate (solid)	10102-06-4	URA200	394,02	mg/m3	Y	16,10	N2O8.U	S	60,2	118			2,81	3	T-2, T-3 changed.
2141	Uranyl nitrate hexahydrate	13520-83-7	URS000	502,14	mg/m3	Y	20,52	N2O8.U.6H2O	6	60,2	118			2.807 @ 13 C	3	T-3 changed.
2142	Uranyl nitrate; (yellow salt)	36478-76-9	URA100	394,02	mg/m3	Y	16,10	UO2(NO3)2	S	60,2	118			2,807	3	T-3 changed.
2143	Uranyl nitrite (liquids)	z-0119	N.I.S. etc.	362,04	mg/m3	Y	14,80	U-O2-(N-O2)2	L							Added
2144	Urea	57-13-6	USS000	60,07	mg/m3	Y	2,46	CH4N2O	S	132,7	dec			1,335	2	
2145	Urethane; (Carbamic acid, ethyl ester; Ethyl carbamate)	51-79-6	UVA000	89,11	mg/m3	N	3,64	CH3CH2OCO.NH2	S	49	182-184	0,36	25	1,107	3	
2146	Valinomycin	2001-95-8	VBZ000	1111,50	mg/m3	N	45,43	C54H90N6O18	S	187		0,00001	25		3	
2147	Vanadium	7440-62-2	VCP000	50,94	mg/m3	N	2,08	V	S	1917	3380			6,11	3	T-2, T-3 changed.
2148	Vanadium pentoxide; (Vanadium(V) oxide)	1314-62-1	VDU000	181,88	mg/m3	Y	7,43	V2O5	S	690	1750	0,0000001	25	3.357 @ 18 C	3	T-1 changed
2149	Vanadium sulfate	16785-81-2	VEA100	454,66	mg/m3	Y	18,58	Vx.H2SO4	S						2	x = 7 for MW given
2150	Vanadium tetrachloride	7632-51-1	VEF000	192,74	mg/m3	Y	7,88	V.Cl4	L	-25,7	148	7,63	25	1.816 @ 20 C	3	
2151	Vanadium(II) sulfate heptahydrate	36907-42-3	N.I.S.	273,11	mg/m3	Y	11,16	V.SO4.7H2O	S							
2152	Vanadium(III) sulfate	13701-70-7	N.I.S.	390,07	mg/m3	Y	15,94	V2.(SO4)3	S							
2153	Vanadyl sulfate pentahydrate; (Vanadium[IV] sulfate oxide hydrate)	12439-96-2	VEZ100	253,07	mg/m3	Y	10,34	V.SO5.5H2O	S						3	T-0, T-1, T-2 changed.
2154	Vanadyl sulfate; (Oxysulfatovanadium)	27774-13-6	VEZ000	163,00	mg/m3	Y	6,66	O5SV	S						3	T-1, T-3 changed.
2155	Vegetable oil	68956-68-3	VGU200		mg/m3	N		[Unspecified]	L						1	T-3 uses 'iv' data

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Table 1: Revision 19 of Chemicals for which TEELs have been derived. with some physicochemical data

No.	Chemical Compound	CAS Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity concentration dependent	ppm to mg/m^3 conversion factor	Molecular formula	State at 25oC	MP (FP) oC	BP °C	Vapor Pressure mm Hg	Vapor Pressure T (°C)	SG	HR	Comments
2156	**Vinyl acetate**	108-05-4	VLU250	86,10	ppm	Y	3,52	CH2=CHO C(O)CH3	L	-92,8	73	100	22	0,9335	3	**ERPG-1, -2, -3**
2157	Vinyl acetate-vinyl chloride copolymer; (Acetic acid, vinyl ester, polymer with chloroethylene)	9003-22-9	AAX175		mg/m3	N		(C4H6O2. C2H3Cl)n	S						1	
2158	Vinyl acrylic resin	25067-01-0	N.I.S.		mg/m3	N		(C7H12O2. C4H6O2)x	S							
2159	Vinyl bromide	593-60-2	VMP000	106,96	ppm	N	4,37	C2H3Br	G	-138	15,6	>760		1,51	3	
2160	Vinyl chloride	75-01-4	VNP000	62,50	ppm	Y	2,55	CH2:CHCl	G	-160	-13,9	>760		0,9121	3	
2161	Vinyl ethyl ether; (Ethoxy ethene)	109-92-2	EQF500	72,12	ppm	Y	2,95	C4H8O	L	-115	35,6	428	20	0,754	3	
2162	Vinyl fluoride	75-02-5	VPA000	46,00	ppm	Y	1,88	CH2.CHF	G	-160,5	-51	>760			3	T-2 changed.
2163	Vinylidene chloride; (1,1-dichloroethylene)	75-35-4	VPK000	96,94	ppm	Y	3,96	CH2=C.Cl2	L	-122,5	37			1,213	3	
2164	Vinylidene fluoride; (1,1-Difluoroethene)	75-38-7	VPP000	64,04	ppm	Y	2,62	C2H2F2	G	-144	<-70				3	
2165	Warfarin	81-81-2	WAT200	308,35	mg/m3	N	12,60	C19H16O4	S	161	356	0,00001	25		3	Added
2166	Warfarin sodium	129-06-6	WAT220	330,33	mg/m3	N	13,50	C19H15O4.Na	S	159-165	dec	0,00001	25		3	Added
2167	Xylene	1330-20-7	XGS000	106,18	ppm	Y	4,34	C6.H4.(CH3)2	L	-50-->	131-->	7,9	20	0,864	3	
2168	Xylene, m-	108-38-3	XHA000	106,18	ppm	Y	4,34	C6.H4.(CH3)2	L	-47,4	138,8			0,864	3	
2169	Xylene, o-	95-47-6	XHJ000	106,18	ppm	Y	4,34	C6.H4.(CH3)2	L	-25	144			0,88	3	
2170	Xylene, p-	106-42-3	XHS000	106,18	ppm	Y	4,34	C6.H4.(CH3)2	L	13,2	138,5	10	27,3	0,8611	3	
2171	Xylenol orange tetrasodium salt	3618-43-7	N.I.S.	760,60	mg/m3	N	31,09	C31-H28-N2-Na4-O13-S	S powd						2	
2172	Xylidine	1300-73-8	XMA000	121,20	ppm	N	4,95	C8H11N	L		213-226			.97-.99	3	
2173	Xylidine, 2,6-	87-62-7	XNJ000	121,20	mg/m3	N	4,95	C8H11N	L	11,2	216	0,125	25	0,98	3	
2174	Xylidine, o-; (2,3-Xylidine)	87-59-2	XMJ000	121,20	ppm	Y	4,95	C8H11N	L	<-15	221,5	0,075	25	0.9931 @ 20 C	3	
2175	Xylylene dichloride	28347-13-9	XSS250	175,06	mg/m3	N	7,15	C8H8Cl2	S	34-37	239	0,02	25	1,202	3	Added
2176	Ytterbium fluoride	13760-80-0	N.I.S.	230,04	mg/m3	Y	9,40	YbF3	S	1157	2200				3	T-3 uses 'ip' data T-3 changed.
2177	Ytterbium oxide	1314-37-0	N.I.S.	394,08	mg/m3	N	16,11	Yb2-O3	S	2435				9,2		Added. Listed in TSCA, no toxicity data, PNOS used.
2178	Yttrium	7440-65-5	YEJ000	88,91	mg/m3	N	3,63	Y	S	1522	3338			4,469	3	
2179	Yttrium oxide	11130-29-3	N.I.S.	104,91	mg/m3	Y	4,29	YO	S							Rat oral LD50 > 5 g/kg
2180	Yttrium trioxide	1314-36-9	YGA000	225,82	mg/m3	N	9,23	Y2-O3	S	2410				4,84	3	Added
2181	Zinc	7440-66-6	ZBJ000	65,37	mg/m3	N	2,67	Zn	S	419	907	1	487	77,14	3	
2182	Zinc acetate	557-34-6	ZBS000	183,47	mg/m3	N	7,50	C4H6O4.Zn	S	237				1,735	3	T-2 uses 'ip' data T-0, T-1, T-2 changed.
2183	Zinc bromide	7699-45-8	N.I.S.	225,19	mg/m3	N	9,20	ZnBr2	S	394	697			4,3		
2184	Zinc carbonate	3486-35-9	ZEJ050	125,38	mg/m3	N	5,12	Zn.CO3	S					4,4	D	
2185	Zinc chloride	7646-85-7	ZFA000	136,27	mg/m3	Y	5,57	Cl2Zn	S	290	732	1	428	2,91	3	T-2 changed.

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Table 1: Revision 19 of Chemicals for which TEELs have been derived. with some physicochemical data

No.	Chemical Compound	CAS Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity concentration dependent	ppm to mg/m^3 conversion factor	Molecular formula	State at 25oC	MP (FP) oC	BP °C	Vapor Pressure mm Hg	Vapor Pressure T (°C)	SG	HR	Comments
2186	Zinc cyanide	557-21-1	ZGA000	117,41	mg/m3	Y	4,80	(CN)2.Zn	S	800 decom				1,852	3	T-3 changed.
2187	Zinc fluoride	7783-49-5	ZHS000	103,37	mg/m3	Y	4,22	ZnF2	S	872	1500	1	970	5,0025	3	T-2 changed.
2188	Zinc hydroxide	20427-58-1	N.I.S.	99,40	mg/m3	N	4,06	Zn-(OH)2	S							Added. RTECS listed, no toxicity data FOUND. **SAR**
2189	Zinc nitrate	7779-88-6	ZJJ000	189,39	mg/m3	Y	7,74	N2O6.Zn	S	42,5					3	
2190	Zinc nitrite	10102-02-0	N.I.S. etc.	157,39	mg/m3	N	6,43	Zn-(N-O2)2	S							Added. In HC&P, no toxicity data found. **SAR**
2191	Zinc oxide	1314-13-2	ZKA000	81,37	mg/m3	N	3,33	ZnO	S	1975				5,47	3	
2192	Zinc phenosulfonate; (Zinc p-hydroxybenzenesulfonate)	127-82-2	ZIJ300	413,73	mg/m3	Y	16,91	Zn.C12H12O8S2	S						3	
2193	Zinc phosphate	7779-90-0	ZJS400	386,05	mg/m3	N	15,78	Zn3-(P-O4)2	S	900				4	2	Added. T-3 uses 'ip' data SAX, RTECS, TSCA all have H3 in MF, butthis would give MW = 392.13
2194	Zinc phosphide	1314-84-7	ZLS000	258,05	mg/m3	Y	10,55	P2Zn3	S	420	1100	0,0000001	25	4.55 @ 13 C	3	Added
2195	Zinc stearate	557-05-1	ZMS000	632,30	mg/m3	N	25,84	Zn(C18H35 O2)2	S	130				1,095	3	T-3 uses 'ip' data T-3 changed.
2196	Zinc sulfate	7733-02-0	ZNA000	161,43	mg/m3	Y	6,60	ZnSO4	S	740 dec				3.74 @ 15C	3	
2197	Zirconium and compounds (as Zr)	7440-67-7	ZOA000	91,22	mg/m3	Y	3,73	Zr	S	1852	3577			6,506	3	
2198	Zirconium boride	z-0120	ZOA000	112,84	mg/m3	Y	4,61	Zr-B2	S							Added. Zr compounds
2199	Zirconium chloride	10026-11-6	ZPA000	233,02	mg/m3	Y	9,52	Cl4Zr	S	437 subl.	331	1	190	2,8	3	T-3 changed.
2200	Zirconium chloride oxide octahydrate	13520-92-8	ZPS000	322,28	mg/m3	Y	13,17	Cl2OZr·8H2O	S						2	T-2, T-3 changed.
2201	Zirconium fluoride	7783-64-4	ZQS000	167,22	mg/m3	Y	6,83	Zr-F4	V							Added
2202	Zirconium hydroxide	14475-63-9	N.I.S.	159,25	mg/m3	Y	6,51	Zr.(OH)4	S	dec				3,24		T-2, T-3 changed.
2203	Zirconium nitrate	13746-89-9	ZSA000	339,26	mg/m3	Y	13,87	Zr.4NO3	S						2	T-3 changed.
2204	Zirconium nitride	z-0121	ZQA000	105,23	mg/m3	Y	4,30	Zr-N	S							Added. Zr compounds
2205	Zirconium nitrite	z-0122	ZQA000	137,23	mg/m3	Y	5,61	Zr-O-N2	S							Added. Zr compounds
2206	Zirconium oxide	1314-23-4	ZQA000	123,22	mg/m3	Y	5,04	ZrO2	S							T-2, T-3 changed.
2207	Zirconium oxynitrate hydrate	14985-18-3	ZQA000	250,00	mg/m3	Y	10,22	ZrO(NO3)x H2O								T-2, T-3 changed.
2208	Zirconium phosphide	z-0123	ZQA000	153,17	mg/m3	Y	6,26	Zr-P2	S							Added. Zr compounds
2209	Zirconium potassium fluoride; (Potassium fluozirconate)	16923-95-8	PLG500	283,40	mg/m3	Y	11,58	Zr.K2F6	S					3,48	3	
2210	Zirconium silane	z-0124	ZQA000	147,39	mg/m3	Y	6,02	Zr-Si2	S							Added. Zr compounds
2211	Zirconium sulfate tetrahydrate	14644-61-2	ZTJ000	355,40	mg/m3	Y	14,53	Zr.(SO4)2.4H2O	S	410 decom				3.22 @ 16 C	3	T-3 changed.
2212	Zirconyl nitrate; (Bis(nitrato-o)oxozirconium)	13826-66-9	BLA000	231,24	mg/m3	Y	9,45	N2O7Zr	S						2	T-2, T-3 changed.
2213	zzAcrylic latex	z-0125	N.I.S. etc.		mg/m3	N		[Unknown]	L							
2214	zzAlumination 301	z-0126	N.I.S. etc.		mg/m3	N		[Unknown]								
2215	zzDPD free chlorine reagent	z-0127	N.I.S. etc.		mg/m3	N		[Unknown]								T-2, T-3 changed.

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Table 1: Revision 19 of Chemicals for which TEELs have been derived. with some physicochemical data

No.	Chemical Compound	CAS Number (CASRN)	SAX Number	Molecular Weight MW	Units of original limits	Toxicity concentration dependent	ppm to mg/m^3 conversion factor	Molecular formula	State at 25oC	MP (FP) oC	BP °C	Vapor Pressure mm Hg	Vapor Pressure T (°C)	SG	HR	Comments
2216	zzDPD total chlorine reagent	z-0128	N.I.S. etc.		mg/m3	N		[Unknown]								T-2, T-3 changed.
2217	zzHydranal coulomat / AG	z-0129	N.I.S. etc.		mg/m3	N		[Unknown]								
2218	zzHydrocarbon polymer	z-0130	N.I.S. etc.		mg/m3	N		[Unknown]	S						3	
2219	zzHydrocount(R), LSC cocktail	z-0131	N.I.S. etc.		mg/m3	N		[Unknown]								
2220	zzIconol(R)	z-0132	N.I.S. etc.		mg/m3	N		[Unknown]								
2221	zzLeco set 7007 powder	z-0133	N.I.S. etc.		mg/m3	N		[Unknown]								
2222	zzMachine coolant 1	z-0134	N.I.S. etc.		mg/m3	N		[Unknown]	L	-5,6	100					
2223	zzMonophase- S	z-0135	N.I.S. etc.		mg/m3	N		[Unknown]								
2224	zzMornar	z-0136	N.I.S. etc.		mg/m3	N		[Unknown]								
2225	zzOpti-Fluor; (Alkyl benzene blend, 3% tributylphophate)	z-0137	N.I.S. etc.		mg/m3	N		Mixture	L?							Mixture ex MSDS used. T-2 changed
2226	zzPaint solvent	z-0138	N.I.S. etc.		mg/m3	Y		[Unknown]	L							
2227	zzPropanol (-2) aluminum derivative	z-0139	N.I.S. etc.		mg/m3	N		[Unknown]								
2228	zzScintillation cocktail, Ultima Gold XR	z-0140	N.I.S. etc.	212,36	mg/m3	Y	8,68	C16H20 (mixture)	L	-30	290-299	2,8		0,96	2	Used MSDS mixture components
2229	zzSicapent	z-0141	N.I.S. etc.		mg/m3	N		[Unknown]								
2230	zzSynthetic resins	z-0142	N.I.S. etc.		mg/m3	N		[Unknown]	L							
2231	zzTotal sequestrant reagent #5	z-0143	N.I.S. etc.		mg/m3	Y		Mixture	L	-0,5	98			1,0325		Used MSDS mixture components
2232	zzTrifluoroacetyl)-N,0,0,0-tetrakis((TMS)norepinephrine, N-(	z-0144	N.I.S. etc.		mg/m3	N		[Unknown]								Toxicity data for "Norepinephrine", CASRN = 51-41-2, used. Added
2233	zzWaste oil	z-0145	N.I.S. etc.		mg/m3	N		[Unknown]	L	varies	varies	Varies				
2234	zzXtraction II	z-0146	N.I.S. etc.		mg/m3	N		[Unknown]								

Note: N.I.S.= Not in SAX,. "etc."= Not in RTECS or other available databases

Table 4: Recommended TEELs Rev. 19 (mg/m^3)

No.	Chemical Name	CASRN	Rev.19 Recommended TEELs (mg/m3)				Comments (and changes from TEELs Rev 18)
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
1	Acenaphthene; (1,3-Acenaphthalene)	83-32-9	0,4	1,25	7,5	250	T-3 uses 'ip' data T-3 changed
2	Acenaphthylene	208-96-8	0,06	0,2	1,25	500	T-3 uses 'ip' data
3	**Acetaldehyde**	**75-07-0**	15	**18**	**360**	**1 800**	**ERPG-1, -2, -3**
4	Acetamide	60-35-5	25	75	500	500	
5	Acetic acid	64-19-7	25	35	75	125	
6	Acetic acid, 2-propenyl ester	591-87-7	2	6	40	200	Added
7	Acetic Anhydride	108-24-7	20	20	20	750	
8	Acetone	67-64-1	2 000	2 000	20 000	20 000	
9	Acetone thiosemicarbazide	1752-30-3	20	60	100	100	Added
10	Acetonitrile	75-05-8	60	100	100	750	
11	Acetophenone	98-86-2	10	30	50	350	
12	Acetoxytriphenylstannane	900-95-8	0,35	0,6	20	50	Added
13	Acetyl bromide	506-96-7	1	3	20	100	T-3 uses 'ip' data All Ts changed
14	Acetyl chloride	75-36-5	0,0075	0,02	0,15	400	
15	Acetylaminofluorenone, 2-	3096-50-2	0,75	2,5	15	75	
16	Acetylaminofluorine, 2-	53-96-3	0,25	0,75	6	30	T-2 uses 'ip' data All Ts changed
17	Acetylene	74-86-2	2 500	2 500	2 500	6 000	Added
18	**Acrolein**	**107-02-8**	0,2	**0,2**	**1**	**6**	**ERPG-1, -2, -3**
19	Acrylamide	79-06-1	0,3	0,3	60	60	
20	**Acrylic acid**	**79-10-7**	6	**6**	**150**	**2 000**	**ERPG-1, -2, -3**
21	Acrylic acid polymers; (Acrylic polymer or resin)	9003-01-4	10	30	200	500	
22	**Acrylonitrile**	**107-13-1**	4	**22**	**76**	**163**	**ERPG-1, -2, -3**
23	Acrylyl chloride; (Acryloyl chloride)	814-68-6	0,15	0,5	0,9	35	T-2 changed
24	Activated charcoal	64365-11-3	10	30	50	250	
25	Adipic acid	124-04-9	5	5	5	125	T-3 uses 'ip' data T-3 changed
26	Adiponitrile	111-69-3	7,5	15	17	750	
27	Agar	9002-18-0	500	500	500	500	Added
28	Alcohols, C6-C12 (N.O.S.)	68603-15-6	10	30	50	250	
29	Aliquat 336; (Adogen 464; Quaternary ammonium compounds, tri(C8-10)-alkylmethyl-, chlorides)	63393-96-4	30	75	500	500	T-0, T-1, T-2 changed.
30	Alkenyl dimethylethyl ammonium bromide; (Aliphatic hydrocarbon)	z-0001	2	6	40	200	
31	Alkyd resins and rosin	66070-62-0	10	30	50	250	
32	Alkyl benzenes (C8-C9)	68515-28-3	10	30	50	250	
33	Alkylamines (includes nitrogen mustard, triethylmelamine, etc.)	63231-48-1	10	30	50	250	
34	Alkylbenzene (C10-C16)	68648-87-3	10	30	50	500	T-3 uses 'sk' data
35	Allene; (1,2-Propadiene)	463-49-0	60	200	1 250	6 000	Added. Unknown toxicity, probable anesthetic
36	Allyl alcohol	107-18-6	4	7,5	36	40	T-2 changed
37	Allyl Bromide; (3-Bropmopropene)	106-95-6	20	60	400	2 000	.

Note: Bolded chemicals and values are official 2002 ERPGs

Table 4: Recommended TEELs Rev. 19 (mg/m^3)

No.	Chemical Name	CASRN	Rev.19 Recommended TEELs (mg/m3)				Comments (and changes from TEELs Rev 18)
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
38	**Allyl chloride**	**107-05-1**	3	**7,5**	**125**	**750**	**ERPG-1, -2, -3**
39	Allylamine	107-11-9	0,15	0,4	3,2	75	
40	Alpha-Pinene	80-56-8	0,00015	0,0005	0,0035	0,015	
41	Aluminon	569-58-4	0,0004	0,001	0,0075	500	
42	Aluminum (powder)	7429-90-5	15	30	50	250	
43	Aluminum chloride	7446-70-0	10	10	50	500	T-2 uses 'ip' data T-2 changed.
44	Aluminum fluoride (as Al)	7784-18-1	6	6	7,5	40	
45	Aluminum hydroxide	21645-51-2	4	12,5	125	125	T-3 uses 'ip' data T-1, T-2, T-3 changed.
46	Aluminum oxide	1344-28-1	15	15	15	25	
47	Aluminum phosphate; (Phosphoric acid, aluminum salt (1:1),solution)	7784-30-7	7,5	22,5	37,5	500	T-1, T-2 changed.
48	Aluminum phosphide	20859-73-8	4	4	20	20	Added
49	Aluminum potassium sulfate	10043-67-1	20	60	100	500	
50	Aluminum sulfate (Soluble salt, as Al)	10043-01-3	12,5	35	60	500	
51	Aluminum(III) nitrate (1:3)	13473-90-0	15	45	75	500	T-1, T-2 changed.
52	Aluminum(III) nitrate nonahydrate (1:3:9) (As sol. Al)	7784-27-2	25	25	125	500	T-2 changed.
53	Aluminum(III)silicate (2:1); (Oil-dri)	1302-76-7	6	15	30	150	
54	Amino-1,3-naphthalenedisulfonic acid, 7-	86-65-7	5	15	100	500	T-2 uses 'ip' data T-0, T-1, T-2 changed.
55	Amino-2,6-dinitrotoluene, 4-; (4-Amino-3,5-dinitrotoluene)	6393-42-6	2,5	7,5	50	250	T-3 uses 'iv' data All Ts changed.
56	Amino-2-methyl-2-propanol, 1-	2854-16-2	10	30	200	500	
57	Amino-4,6-dinitrotoluene, 2-	35572-78-2	6	15	125	500	
58	Aminoanthraquinone, 2-	117-79-3	7,5	25	150	500	T-3 uses 'ip' data
59	Aminobutyl)diethoxymethylsilane, (4-	3037-72-7	2	6	45	45	T-3 uses 'sk' data Added
60	Aminodiphenyl, p-	92-67-1	0,5	1,5	10	200	
61	Aminoethylpiperazine, n-	140-31-8	2,5	7,5	50	500	
62	Aminoheptane, 3-; (3-Heptylamine)	28292-42-4	0,3	0,75	6	30	T-3 uses 'ip' data Added
63	Aminopropiophenone, 4-	70-69-9	1	3,5	5,6	75	Added
64	Aminopterin; (Aminopteridine)	54-62-6	5	15	25	25	.
65	Aminopyrazine	5049-61-6	2	6	10	20	Added. No toxicity data found. **SAR**
66	Aminopyridine, 4-; (4-Pyridinamine)	504-24-5	4	12,5	20	20	.
67	Amiton oxalate	3734-97-2	0,6	1,5	3	3	HSDB p-chem data same as amiton. Added
68	Amiton; (O,O-Diethyl-S-(2-diethylaminoethyl) thiophosphate)	78-53-5	0,6	2	3,3	3,3	Added
69	Amitrole	61-82-5	0,2	0,6	100	500	T-2 changed.
70	**Ammonia**	**7664-41-7**	15	**17,5**	**105**	**525**	**ERPG-1, -2, -3**
71	Ammonium acetate	631-61-8	2,5	7,5	50	250	T-3 uses 'ip' data All Ts changed.
72	Ammonium aluminum fluoride; (Triammonium hexafluoroaluminate)	7784-19-2	4	4	4	15	T-3 uses 'iv' data. T-2, T-3 changed
73	Ammonium benzoate	1863-63-4	3,5	10	75	350	P-Chem data ex HSDB (MP > BP)
74	Ammonium bicarbonate	1066-33-7	2	6	40	200	T-3 uses 'iv' data All Ts changed.

Note: Bolded chemicals and values are official 2002 ERPGs

Table 4: Recommended TEELs Rev. 19 (mg/m^3)

No.	Chemical Name	CASRN	Rev.19 Recommended TEELs (mg/m3)				Comments (and changes from TEELs Rev 18)
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
75	Ammonium bisulfate; (Ammonium hydrogen sulfate)	7803-63-6	10	10	10	10	
76	Ammonium bisulfite; (Ammonium sulfite)	10192-30-0	10	10	10	10	
77	Ammonium carbamate; (Carbamic Acid, Ammonium Salt)	1111-78-0	0,3	1	6	35	T-3 uses 'iv' data All Ts changed.
78	Ammonium carbonate	506-87-6	0,75	2,5	15	75	T-3 uses 'iv' data All Ts changed.
79	Ammonium chloride	12125-02-9	10	20	50	500	
80	Ammonium chromate	7788-98-9	0,05	0,1	0,1	15	. SAX has two entries under CASRN = 7788-98-9, name in NCQ550 = "Neutral ...". T-1 changed.
81	Ammonium citrate	7632-50-0	10	10	30	150	
82	Ammonium citrate, dibasic	3012-65-5	10	10	10	10	.
83	Ammonium dichromate (as Cr(VI))	7789-09-5	0,125	0,25	0,25	35	All Ts changed.
84	Ammonium dihydrogen fluoride; (Ammonium bifluoride)	1341-49-7	3,5	3,5	3,5	3,5	
85	Ammonium dihydrogen phosphate; (Monoammonium phosphate)	7722-76-1	15	50	350	500	
86	Ammonium ethylenedinitrotetraacetoferrate(III)	21265-50-9	2,5	7,5	50	250	T-3 uses 'ip' data All Ts changed.
87	Ammonium ferrous sulfate	7783-85-9	1	3	5	500	
88	Ammonium fluoborate	13826-83-0	3,5	3,5	6	20	
89	Ammonium fluoride	12125-01-8	5	5	5	12,5	T-3 uses 'ip' data T-3 changed.
90	Ammonium formate	540-69-2	10	30	50	500	
91	Ammonium hexachlorohydrate (III)	z-0002	10	30	50	250	
92	Ammonium hexafluorosilicate; (Ammonium silicofluoride)	16919-19-0	4	10	20	30	
93	Ammonium hydroxide (as NH3)	1336-21-6	35	50	50	50	
94	Ammonium iodide	12027-06-4	1,5	4	30	150	
95	Ammonium lactate	52003-58-4	10	30	50	250	
96	Ammonium lignin sulfonate	z-0003	10	30	50	250	
97	Ammonium molybdate	13106-76-8	10	30	50	150	
98	Ammonium molybdophosphate	z-0004	7,5	25	40	200	
99	Ammonium nickel sulfate	15699-18-0	1,5	1,5	2,5	50	T-3 changed.
100	Ammonium nitrate	6484-52-2	10	10	10	500	
101	Ammonium oxalate monohydrate	5972-73-6	1,5	4	30	150	This CASRN in H&N, with MW = 125.08
102	Ammonium oxalate; (Ammonium oxalate hydrate)	6009-70-7	1,5	4	30	150	Listed in CHRIS & OHMTADS
103	Ammonium oxalate; (Ethanediodic acid, ammonium salt)	1113-38-8	0,15	0,5	4	20	
104	Ammonium pentaborate	12007-89-5	10	30	50	250	
105	Ammonium perchlorate	7790-98-9	5	15	100	500	
106	Ammonium permanganate	13446-10-1	0,2	3	5	500	
107	Ammonium persulfate	7727-54-0	0,1	0,3	0,5	100	T-3 uses 'ip' data T-3 changed.
108	Ammonium phosphate dibasic	7783-28-0	10	30	50	250	
109	Ammonium picrate	131-74-8	10	30	50	250	
110	Ammonium sulfamate	7773-06-0	10	30	50	500	
111	Ammonium sulfate	7783-20-2	40	125	500	500	

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Table 4: Recommended TEELs Rev. 19 (mg/m^3)

No.	Chemical Name	CASRN	Rev.19 Recommended TEELs (mg/m3)				Comments (and changes from TEELs Rev 18)
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
112	Ammonium sulfide	12135-76-1	7,5	25	40	40	
113	Ammonium sulfite	10196-04-0	10	10	10	10	
114	Ammonium tartrate	14307-43-8	10	10	10	10	
115	Ammonium tartrate; (Diammonium tartrate)	3164-29-2	1,5	5	40	200	
116	Ammonium thiocyanate	1762-95-4	12,5	35	200	200	
117	Ammonium thiosulfate; (Ammonium hyposulfite)	7783-18-8	10	30	50	500	
118	Ammonium vanadate; (Ammonium vanadium oxide; Ammonium metavanadate)	7803-55-6	0,03	0,1	0,3	3,5	
119	Ammonium, hexadecyltrimethyl bromide; (Hexadecyltrimethylammonium bromide)	57-09-0	0,035	0,1	0,75	150	T-2 uses 'ip' data T-0, T-1, T-2 changed.
120	Amosite	12172-73-5	0,005	0,025	2,5	12,5	T-2 changed.
121	Amphetamine; (Benzedrine)	300-62-9	4	12,5	20	20	Added
122	Amyl acetate	628-63-7	500	500	500	5 000	
123	Amyl alcohol mixed isomers; (1-Pentanol)	71-41-0	350	350	350	1 500	
124	Amylamine, n-; (1-Pentylamine)	110-58-7	0,3	0,75	6	30	T-3 uses 'ip' data All Ts changed.
125	Anhydrone; (Magnesium perchlorate)	10034-81-8	10	15	50	500	
126	Aniline	62-53-3	15	20	38	350	
127	Anisidine, o-	90-04-0	0,5	1,5	2,5	50	
128	Anisidine, p-	104-94-9	0,5	1,5	2,5	50	
129	Anthracene	120-12-7	2	6	40	150	T-3 uses 'ip' data T-3 changed.
130	Anthraquinone dye; (sans dye, see Hawley)	84-65-1	10	30	50	500	
131	Antimony	7440-36-0	0,5	1,5	25	50	T-2 changed.
132	Antimony oxide	1309-64-4	0,6	1,5	3	60	T-3 changed
133	Antimony pentachloride	7647-18-9	1,25	3,5	6	125	T-3 changed.
134	Antimony pentafluoride	7783-70-2	0,75	0,75	2,7	75	All Ts changed.
135	Antimony pentasulfide	1315-04-4	0,75	2,5	4	75	T-3 changed.
136	Antimony potassium tartrate trihydrate; (sans trihydrate)	28300-74-5	1,25	4	6	125	T-3 changed.
137	Antimony trichloride	10025-91-9	0,75	0,75	0,75	75	T-3 changed.
138	Antimony trifluoride	7783-56-4	0,75	2,25	3,75	75	T-1, T-2, T-3 changed.
139	Antimycin A	1397-94-0	0,35	1	1,8	12,5	
140	Antioxidant G-16 (most toxic antiox)	61373-87-3	10	30	50	125	T-3 uses 'ip' data T-3 changed.
141	Aqua regia (75% hydrochloric + 25% nitric acid)	8007-56-5	0,75	4	30	150	
142	Arginine, L-	74-79-3	10	30	50	250	
143	Argon	7440-37-1	1,00E+05	3,50E+05	5,00E+05	7,50E+05	
144	Argon, cryogenic	7440-37-1	1,00E+05	3,50E+05	5,00E+05	7,50E+05	
145	Aromatic hydrocarbon solvents; (High flash naphtha distillates; Solvent naphtha [petroleum], light aromatic)	64742-95-6	2 000	3 500	3 500	3 500	
146	Arsenic (& inorganic compounds)	1327-53-3	0,01	0,03	5	5	T-2 changed
147	Arsenic (organic compounds as As)	7440-38-2	0,5	1,5	2,5	350	

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Table 4: Recommended TEELs Rev. 19 (mg/m^3)

No.	Chemical Name	CASRN	Rev.19 Recommended TEELs (mg/m3)				Comments (and changes from TEELs Rev 18)
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
148	Arsenic acid	1327-52-2	0,015	0,05	0,75	50	Added
149	Arsenic acid; (o-arsenic acid)	7778-39-4	0,015	0,045	0,075	7,5	T-2 uses 'ip' data T-1, T-2, T-3 changed.
150	Arsenic pentoxide	1303-28-2	0,015	0,045	7,5	7,5	T-1, T-2, T-3 changed.
151	Arsenious acid	13464-58-9	0,015	0,045	1,4	7,5	Added. As inorganic compounds. Exists only in solution (HC&P)
152	Arsenous trichloride	7784-34-1	0,15	0,5	10	75	T-0, T-1, T-3 changed
153	**Arsine**	**7784-42-1**	0,15	0,2	**1,6**	**4,8**	**ERPG-2, -3 T-1 changed.**
154	Asbestos	1332-21-4	0,005	0,5	0,5	2,5	All Ts changed.
155	Asbestos (Chrysotile)	12001-29-5	0,005	0,5	50	250	T-3 uses 'ip' data T-1, T-2, T-3 changed.
156	Ascaridole	512-85-6	6	20	75	75	Added
157	Ascorbic acid	50-81-7	60	200	500	500	T-2 uses 'iv' data T-0, T-1 changed.
158	Asphalt; (Bitumen; see also Petroleum asphalt)	8052-42-4	0,5	1,5	50	250	T-2 changed.
159	Auramine; (4.4-[Imidocarbonyl]bis[n.n-dimethylamine])	2465-27-2	10	30	50	60	T-3 uses 'ip' data T-3 changed.
160	Azaserine; (L-Serine,diazoacetate (ester))	115-02-6	0,0125	0,04	0,25	75	
161	Azinphos ethyl; (Ethyl guthion)	2642-71-9	0,75	2	4	150	Added
162	Azinphos methyl	86-50-0	0,2	0,6	0,7	10	Added
163	Azodicarbamide; (Azodicarbonamide)	123-77-3	40	125	200	200	T-3 uses 'ip' data T-2, T-3 changed.
164	Barbituric acid	67-52-7	10	10	40	200	T-3 uses 'ip' data T-1, T-2, T-3 changed.
165	Barium	7440-39-3	0,5	1,5	25	125	T-2 changed.
166	Barium carbonate	513-77-9	0,3	0,75	6	500	
167	Barium chloride	10361-37-2	0,5	1,5	2,5	50	
168	Barium chromate	10294-40-3	0,25	0,5	0,5	75	T-3 changed.
169	Barium cyanide	542-62-1	0,6	2	3,5	60	T-3 changed.
170	Barium dioxide; (Barium peroxide)	1304-29-6	0,6	0,6	1,5	7,5	Added
171	Barium diphenylamine sulfonate	6211-24-1	2	6	10	200	T-3 changed.
172	Barium fluoride	7787-32-8	0,6	2	3	100	
173	Barium hydrogen phosphate; (Barium phosphate dibasic)	10048-98-3	0,75	2,5	4	20	
174	Barium hydroxide	17194-00-2	0,6	1,5	3	100	T-3 uses 'ip' data T-3 changed.
175	Barium metaborate	13701-59-2	10	30	200	500	
176	Barium nitrate	10022-31-8	0,75	2,5	4	75	T-3 changed.
177	Barium nitrite	z-0005	0,75	2,5	4	20	Added
178	Barium oxide	1304-28-5	0,5	1,5	2,5	50	T-3 changed.
179	Barium permanganate	7787-36-2	1,25	7,5	12,5	500	T-0, T-1, T-2 changed.
180	Barium phosphate	z-0006	0,75	2	4	20	
181	Barium sulfate	7727-43-7	15	30	50	250	
182	Bathophenanthroline; (Use 1,10-o-Phenanthroline)	66-71-7	0,1	0,3	2	30	T-2 uses 'ip' data T-3 uses 'ip' data All Ts changed.
183	Benz(e)acephenanthrylene; (Benz(b)fluoroanthene)	205-99-2	0,2	0,6	4	20	Likely human carcinogen. Added
184	Benzal chloride	98-87-3	0,4	1,25	2,3	500	

Note: Bolded chemicals and values are official 2002 ERPGs

Table 4: Recommended TEELs Rev. 19 (mg/m^3)

No.	Chemical Name	CASRN	Rev.19 Recommended TEELs (mg/m3)				Comments (and changes from TEELs Rev 18)
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
185	Benzaldehyde	100-52-7	6	15	125	500	
186	Benzamide	55-21-0	3	10	60	350	T-3 uses 'ip' data All Ts changed.
187	**Benzene**	**71-43-2**	3	**156**	**470**	**3 130**	**ERPG-1, -2, -3**
188	Benzene hexachloride	608-73-1	0,15	0,5	4	40	
189	Benzene hexachloride, beta; (trans-alpha-); (Hexachlorocyclohexane, 1,2,3,4,5,6-, beta isomer)	319-85-7	0,5	1,5	2,5	500	
190	Benzene, 1-(chloromethyl)-4-nitro-; (p-Nitrobenzyl chloride)	100-14-1	5	15	28	125	
191	Benzenearsonic acid; (Phenylarsonic acid)	98-05-5	0,27	0,27	0,27	0,27	Added LOC. All Ts changed
192	Benzenesulfonic acid chloride; (Benzenesulfonyl chloride)	98-09-9	0,5	1,5	200	200	T-0, T-1 changed.
193	Benzenethiol; (Thiophenol; Phenyl mercaptan)	108-98-5	1,25	1,4	10	15	T-0, T-1, T-2 changed.
194	Benzidene	92-87-5	0,15	0,5	3,5	125	
195	Benzo(a)anthracene	56-55-3	0,1	0,3	2	15	T-2 uses 'sk' data T-3 uses 'iv' data All Ts changed.
196	Benzo(a)pyrene; (Coal tar pitch volatiles)	50-32-8	0,2	0,6	10	80	T-2 changed.
197	Benzo(ghi)perylene	191-24-2	10	30	50	250	
198	Benzo(k)fluoranthene	207-08-9	0,2	0,6	4	20	
199	Benzoic acid	65-85-0	4	12,5	75	400	
200	Benzonitrile	100-47-0	2,5	7,5	60	300	
201	Benzoquinone, p-; (Quinone)	106-51-4	0,4	1,25	2	100	T-3 changed.
202	Benzotrifluoride	98-08-8	6	15	30	500	T-1, T-2, T-3 changed.
203	Benzoyl chloride	98-88-4	3	3	3	400	
204	Benzoyl peroxide	94-36-0	5	5	15	500	T-2 uses 'sk' data T-2 changed.
205	Benzyl alcohol	100-51-6	20	60	400	750	
206	**Benzyl chloride**	**100-44-7**	5	**5,2**	**52**	**130**	**ERPG-1, -2, -3**
207	Benzyl cyanide; (Phenylacetonitrile)	140-29-4	0,2	0,6	4,3	30	
208	Benzyl dimethyl ammonium chloride; (Dimethyloctadecylbenzylammonium chloride)	122-19-0	5	15	100	500	
209	Benzyl trichloride; (Trichloromethylbenzene)	98-07-7	0,1	0,1	6	25	T-0, T-1, T-2, changed.
210	Benzylbutylester phthalic acid; (Benzyl butyl phthalate)	85-68-7	5	15	500	500	
211	**Beryllium**	**7440-41-7**	0,002	0,005	**0,025**	**0,1**	**ERPG-2, -3**
212	Beryllium chloride	7787-47-5	0,015	0,04	0,2	35	T-3 changed.
213	Beryllium fluoride	7787-49-7	0,01	0,025	0,125	20	T-3 changed.
214	Beryllium hydroxide	13327-32-7	0,01	0,025	0,25	20	T-2, T-3 changed.
215	Beryllium nitrate	13597-99-4	0,03	0,075	7,5	60	T-2, T-3 changed.
216	**Beryllium oxide *Corrected values as of July 18, 2003**	1304-56-9	0,005	**0.0125 ***	**1.25 ***	10	T-2, T-3 changed.
217	Bicyclo[2.2.1]heptane-2-carbonitrile, 5-chloro-6-((((methylamino)carbonyl)oxy)Imino)-, (1s-(1-alpha,2-beta,4-alpha,5-alpha,6E))-.	15271-41-7	3,5	10	19	19	SAX has "3-Chloro-6-cyano-2-norbornanone-o-(methylcarbamoyl). Added
218	Bioxirane, 2,2-; (1,2:3,4-Diepoxybutane)	1464-53-5	0,15	0,5	3,5	35	T-0, T-1, T-2 changed
219	Biphenolol, sodium salt, 2-;	132-27-4	2,5	7,5	60	300	
220	Bis(1,1-dimethylethyl)-4-ethylphenol, 2,6-	4130-42-1	4	12,5	75	400	Listed in TSCA & HC&P; LD50 estimated from "… methylphenol", CASRN = 128-37-0 Added

Note: Bolded chemicals and values are official 2002 ERPGs

Table 4: Recommended TEELs Rev. 19 (mg/m^3)

No.	Chemical Name	CASRN	Rev.19 Recommended TEELs (mg/m3)				Comments (and changes from TEELs Rev 18)
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
221	Bis(1,1-dimethylethyl)-4-methylphenol, 2,6-; (BHT [food grade]; 2,6-Di-tert-butyl-p-cresol))	128-37-0	2	6	10	400	Added
222	Bis(1-methylethyl) benzene; (Diisopropylbenzene)	25321-09-9	5	15	100	500	Added
223	Bis(1-methylethyl)benzene, 1-4; (p- or 1,4-Diisopropylbenzene)	100-18-5	12,5	40	300	500	
224	Bis(2-ethoxyethyl) ether; (Diethyl carbitol)	112-36-7	75	250	500	500	
225	Bis(2-ethyl hexyl) hydrogen phosphate	298-07-7	0,02	0,06	0,4	2	
226	Bis(2-hydroxyethyl)dodecan amide, N,N-	120-40-1	0,04	0,125	1	1 000	RTECS rat oral TDlo data. Added
227	Bis(3-tert-butyl-4-hydroxy-6-methyl-phenyl) sulfide	96-69-5	15	30	50	500	Added
228	Bis(chloromethyl)ketone; (1,3-Dichloroacetone)	534-07-6	0,125	0,4	2	2	Added
229	bis(Chloromethyl)oxetane, 3,3-	78-71-7	0,4	1,25	2	75	Added
230	Bis(o-methylstyryl) benzene, p-; (1,4-bis[2-[2-methylphenyl]ethenyl]-benzene)	13280-61-0	10	30	50	250	TSCA only
231	Bis[2(2-chlorethyl-thio)ester]; (2-2'-Di(3-chloroethylthio)diethyl ether	63918-89-8	0,3	0,75	6	30	
232	Bis[2-chloroethyl]sulfide; (HD vesicant; Mustard gas)	505-60-2	0,00075	0,0025	0,015	4	
233	Bismuth	7440-69-9	1,5	5	40	200	
234	Bismuth germanate	12233-73-7	1,5	5	40	200	Used toxicity of Bi
235	Bismuth hydroxide	10361-43-0	1	1	3	100	Added. TSCA listed, no toxicity data. **SAR**
236	Bismuth hydroxide nitrate oxide; (White paint)	1304-85-4	7,5	20	150	500	
237	Bismuth nitrate	10361-44-1	1,25	4	25	500	T-3 uses 'ip' data
238	Bismuth oxide	1304-76-3	20	60	400	500	
239	Bismuth oxychloride	7787-59-9	75	250	500	500	RTECS & CHRIS listed. Added
240	Bisphenol A	80-05-7	10	30	50	500	
241	Bisphenol A diglycidyl ether	1675-54-3	1,25	3,5	6	6	T-2 uses 'sk' data T-0, T-1 changed.
242	Bitoscanate; (1,4-Phenylenediisothiocyanic acid)	4044-65-9	4	12,5	20	20	Added
243	Boric acid	10043-35-3	10	30	50	125	
244	Boron	7440-42-8	2,5	7,5	50	250	
245	Boron carbide	12069-32-8	10	30	50	250	TSCA only
246	Boron oxide	1303-86-2	15	30	50	500	
247	Boron tribromide	10294-33-4	10	10	10	50	T-0, T-1 changed
248	Boron trichloride	10294-34-5	0,5	1,5	10	12,5	T-0, T-1, T-2 changed
249	**Boron trifluoride**	**7637-07-2**	2	**2**	**30**	**100**	**ERPG-1, -2, -3**
250	Boron trifluoride-dimethyl ether	353-42-4	4	12,5	23	40	All Ts changed
251	Bromadiolone	28772-56-7	0,2	0,6	1	1	Added
252	**Bromine**	**7726-95-6**	0,6	**0,7**	**3,3**	**33**	**ERPG-1, -2, -3**
253	Bromine chloride	13863-41-7	10	30	50	250	Listed in TSCA & H&N Added
254	Bromine pentafluoride	7789-30-2	0,75	2	3,5	250	Toxicity data for exposure of unspecified animals ex HSDB. Added
255	Bromine trifluoride	7787-71-5	6	15	30	500	T-1, T-2, T-3 changed.
256	Bromo-1-chloro-5,5-dimethylhydantoin, 3-; (Bromochlorodimethylimidazokidinedione)	126-06-7	10	10	50	250	
257	Bromo-3-chloro-5,5-dimethylhydantoin, 1-	32718-18-6	10	10	10	10	

Note: Bolded chemicals and values are official 2002 ERPGs

Table 4: Recommended TEELs Rev. 19 (mg/m^3)

No.	Chemical Name	CASRN	Rev.19 Recommended TEELs (mg/m3)				Comments (and changes from TEELs Rev 18)
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
258	Bromoacetone	598-31-2	0,4	1,25	7,5	40	
259	Bromobenzene; (Phenyl bromide)	108-86-1	6	15	125	2 000	T-2 uses 'ip' data T-0, T-1, T-2 changed.
260	Bromochlorobenzene, m-	108-37-2	10	30	50	250	
261	Bromochlorobenzene, p-	106-39-8	10	30	50	250	
262	Bromochloromethane	74-97-5	1 000	3 000	5 000	10 000	
263	Bromocresol green	76-60-8	10	30	50	250	
264	Bromocresol purple	115-40-2	10	30	50	250	
265	Bromocyclohexanol, Cis-2-	16536-57-5	0,3	0,75	5	300	Added. HC&P has 2-Bromo-1-cyclohexanol, CASRN = 24796-87-0, same MF and MW **SAR**
266	Bromodichloromethane	75-27-4	1,5	4	30	150	
267	Bromoform; (Tribromomethane)	75-25-2	5	5	15	7 500	T-2 uses 'ip' data T-1, T-2 changed.
268	Bromonaphthalene	90-11-9	10	30	50	350	T-3 uses 'ip' data T-3 changed.
269	Bromophenyl phenyl ether, 4-	101-55-3	2	6	40	200	
270	Bromopropane, 1-	106-94-5	1 500	5 000	12 500	12 500	
271	Bromotrifluoroethylene	598-73-2	40	125	200	750	
272	Bromotrifluoromethane; (Trifluorobromomethane)	75-63-8	6 000	15 000	1,50E+05	2,50E+05	
273	Brucine (as srychnine)	357-57-3	0,15	0,45	0,75	40	T-3 uses 'ip' data T-3 changed.
274	**Butadiene,1,3-**	**106-99-0**	4	**22**	**440**	**11 000**	**ERPG-1, -2, -3**
275	Butane	106-97-8	1 500	5 000	7 500	40 000	T-3 limited to LEL=1.9%
276	Butanedioic acid, diethyl ester; (Succinic acid, diethyl ester)	123-25-1	35	100	750	3 500	Added
277	Butanedioic acid, dimethyl ester; (Succinic acid, dimethyl ester)	106-65-0	20	60	400	2 000	RTECS rat oral LD50 > 5g/kg Added
278	Butanediol dinitrate, 1,4-	3457-91-8	0,35	0,75	3	20	Added. No toxicity data found. **SAR**
279	Butanenitrile; (Butyronitrile)	109-74-0	20	60	100	125	Added
280	Butanethiol; (n-Butyl mercaptan)	109-79-5	1,5	1,84	7,5	1 500	T-1, T-2 changed.
281	Butanoic acid, butyl ester; (n-Butyl n-butanoate)	109-21-7	10	30	200	1 000	Added/ T-3 uses 'ip' data
282	Butanone, 2-; (MEK)	78-93-3	600	750	750	7 500	
283	Butene, 1-; (Butylene)	106-98-9	750	2 500	4 000	1,00E+06	
284	Butene, 2-	107-01-7	7,5	20	150	750	
285	Butene, cis-2-; (cis-1,2-Dimethylethylene)	590-18-1	40 000	40 000	40 000	40 000	Asphixiant: all Ts changed to LEL=1.7%
286	Butene-trans, 2-; (trans-1,2-Dimethylethylene)	624-64-6	12 500	40 000	60 000	60 000	
287	Butoxy ethoxy)ethyl thiocyanate, 2-(2-	112-56-1	0,35	1	7,5	40	
288	Butoxyethanol acetate; 2- (Ethylene glycol monobutyl ether acetate)	112-07-2	30	100	150	1 000	T-2 changed
289	Butoxyethanol, 2-; (Glycol ether EB)	111-76-2	250	250	500	3 500	
290	Butoxyethoxy)-ethanol, 2-(2-; (Diethylene glycol monobutyl ether)	112-34-5	100	150	500	500	
291	**Butyl acetate, n-**	**123-86-4**	20	**24**	**950**	**14 250**	**ERPG-1, -2, -3**
292	Butyl acetate, sec-	105-46-4	750	750	1 250	6 000	
293	Butyl acetate, tert-	540-88-5	750	2 500	4 000	6 000	

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Table 4: Recommended TEELs Rev. 19 (mg/m^3)

No.	Chemical Name	CASRN	Rev.19 Recommended TEELs (mg/m3)				Comments (and changes from TEELs Rev 18)
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
294	**Butyl acrylate, n-**	**141-32-2**	10	**15**	**131**	**1 308**	**ERPG-2, -3; ignored ERPG-1**
295	Butyl alcohol, n-	71-36-3	150	150	150	4 000	
296	Butyl alcohol, sec-; (sec-butanol)	78-92-2	300	400	1 500	6 000	T-2 changed.
297	Butyl bis(2-ethylhexyl)phosphate	z-0007	3	7,5	10	10	Added. No toxicity data found. **SAR**
298	Butyl glycidyl ether, n-	2426-08-6	250	250	250	1 250	T-2 uses 'sk' data Added
299	**Butyl isocyanate, n-**	**111-36-4**	0,04	**0,04**	**0,2**	**4**	**ERPG-1, -2, -3**
300	Butyl perbenzoate, tert-	614-45-9	7,5	25	150	400	Added. RTECS r & mu 240 min LC > 57 mg/m3
301	Butyl propanoate; (Propanoic acid, butyl ester)	590-01-2	500	500	500	500	Added.
302	Butyl-3-iodo-propnyl ester carbamic acid	55406-53-6	10	30	50	250	
303	Butylamine, (S)-sec-	513-49-5	1,5	4	30	150	
304	Butylamine, n-	109-73-9	15	15	150	750	T-0, T-1, T-2 changed.
305	Butylamine, sec-	13952-84-6	15	15	15	60	
306	Butylamine, tert-	75-64-9	15	15	20	400	
307	Butylbenzene, n-; (1-Phenylbutane)	104-51-8	40	125	750	4 000	
308	Butylbenzene, sec-; (2-Phenylbutane)	135-98-8	7,5	25	200	1 000	
309	Butylbenzene, tert-	98-06-6	40	125	750	4 000	
310	Butylcyclohexane; (1-Cyclohexylbutane)	1678-93-9	10	30	200	1 000	
311	Butylcyclohexanone, p-tert-	98-53-3	20	60	400	500	
312	Butylpyrocatechol, 4-tert-; (4-tert-Butylcatechol)	98-29-3	2	6	10	500	
313	Butyne-1,4-diol, 2-; (1,4-Butynediol)	110-65-6	0,35	1	20	30	
314	Butyraldehyde	123-72-8	75	75	75	6 000	
315	Butyric acid	107-92-6	50	150	750	750	
316	C.I. Basic Green 4; (Aizen malachite green)	569-64-2	0,35	1	6	35	.
317	C.I. Basic Red 1; (Rhodamine 6G extra base)	989-38-8	0,025	0,075	0,6	2,5	T-2 uses 'ip' data T-3 uses 'ip' data All Ts changed.
318	C.I. Direct Black 38; (Apomine black GX)	1937-37-7	25	75	500	500	
319	C.I. Food Red 15; (FD&C Red No. 19)	81-88-9	0,4	1,25	7,5	50	T-2 uses 'ip' data T-3 uses 'ip' data All Ts changed.
320	C.I. pigment green 36	14302-13-7	15	50	350	500	
321	C.I. pigment yellow 13; Butanamide, 2,2'-((3,3'-dichloro(1,1'-biphenyl)-4,4'-diyl)bis(azo)biz(N-(2,4-dimethylphenyl)-3-oxo-	5102-83-0	75	250	500	500	
322	C.I. pigment yellow 14	5468-75-7	20	60	400	500	
323	C.I. pigment yellow 36; (Zinc chromate)	13530-65-9	0,035	0,1	3,5	50	T-2, T-3 changed.
324	C.I. Solvent Yellow 3	97-56-3	2	6	40	500	
325	C8 Alkane	z-0008	1 250	1 500	1 800	7 500	Added
326	Cacodylic acid (as inorganic As)	75-60-5	0,5	1,5	5	5	T-2, T-3 changed.
327	Cadmium & compounds	7440-43-9	0,005	0,03	0,5	7,5	T-2, T-3 changed.
328	Cadmium bromide	7789-42-6	0,0125	0,075	4	20	T-2, T-3 changed.
329	Cadmium carbonate	513-78-0	0,0075	0,04	4	12,5	T-2, T-3 changed.

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Table 4: Recommended TEELs Rev. 19 (mg/m^3)

No.	Chemical Name	CASRN	Rev.19 Recommended TEELs (mg/m3)				Comments (and changes from TEELs Rev 18)
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
330	Cadmium chloride	10108-64-2	0,0075	0,05	0,075	15	T-3 changed.
331	Cadmium fluoride	7790-79-6	0,006	0,04	4	12,5	T-2, T-3 changed.
332	Cadmium hydroxide	21041-95-2	0,006	0,04	4	10	All Ts changed
333	Cadmium nitrate	10325-94-7	0,01	0,06	4	15	T-2, T-3 changed.
334	Cadmium nitrate tetrahydrate	10022-68-1	0,0125	0,075	4	25	All Ts changed
335	Cadmium nitrite	z-0009	0,0075	0,05	4	15	Added
336	Cadmium oxide	1306-19-0	0,005	0,035	4	10	T-2, T-3 changed.
337	Cadmium stearate; (Octadecanoic acid, cadmium salt)	2223-93-0	0,03	0,15	12,5	50	T-2, T-3 changed.
338	Cadmium sulfate	10124-36-4	0,0075	0,05	4	15	T-2, T-3 changed.
339	Cadmium tungstate	7790-85-4	0,015	0,1	4	30	T-2, T-3 changed.
340	Cadmium(II) acetate	543-90-8	0,005	0,03	4	7,5	T-2, T-3 changed.
341	Calcium	7440-70-2	10	30	50	250	
342	Calcium Arsenate	7778-44-1	0,01	0,03	10	10	Added
343	Calcium carbide	75-20-7	10	30	50	250	
344	Calcium carbonate; (Dolomite, Limestone)	1317-65-3	15	15	15	15	
345	Calcium chloride	10043-52-4	1	3,5	20	400	T-2 uses 'iv' data T-0, T-1, T-2 changed.
346	Calcium chloride dihydrate	10035-04-8	40	125	500	500	T-3 uses 'ip' data Added
347	Calcium chromate	13765-19-0	0,003	0,0075	0,15	150	T-2 changed.
348	Calcium cyanamide	156-62-7	0,5	1,5	25	500	T-2 changed.
349	Calcium fluoride	7789-75-5	5	15	25	500	T-0, T-1, T-2 changed.
350	Calcium formate	544-17-2	10	30	200	500	
351	Calcium hydride	7789-78-8	3	9	15	75	
352	Calcium hydroxide	1305-62-0	15	15	25	500	
353	Calcium hydroxyapatite	1306-06-5	12,5	35	60	500	Added. RTECS toxicity data. **SAR**?
354	Calcium hypochlorite; (Calcium oxychloride)	7778-54-3	10	10	50	350	
355	Calcium nitrite	13780-06-8	0,03	0,075	0,6	50	Added. TSCA, H&N list as "Nitrous acid, calcium salt", MF = Ca.2(HNO2), MW = 134.10 **SAR**
356	Calcium oxalate	563-72-4	6	15	50	50	Added. TSCA, H&N list as "Ethanedioic acid, calcium salt", MF = C2H2O4.Ca, MW = 130.11 **SAR**
357	Calcium oxide	1305-78-8	5	5	5	25	
358	Calcium phosphate; (Tricalcium phosphate)	10103-46-5	7,5	20	35	350	Added. Listed in CHRIS, OHMTADS & TSCA. MW = 310.18 is for tricalcium phosphate **SAR**
359	Calcium sulfate	7778-18-9	15	30	50	250	
360	Calcium(II) nitrate	10124-37-5	1,25	3,5	25	125	
361	Calcium(II) nitrate tetrahydrate (1:2:4)	13477-34-4	10	30	50	500	
362	Camphor	76-22-2	2	25	25	200	
363	Cantharidin	56-25-7	0,75	2,5	4,3	4,3	T-3 uses 'ip' data
364	Caprolactam (dust)	105-60-2	1	3	3	20	

Table 4: Recommended TEELs Rev. 19 (mg/m^3)

No.	Chemical Name	CASRN	Rev.19 Recommended TEELs (mg/m3)				Comments (and changes from TEELs Rev 18)
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
365	Caprylyl chloride; (Octanoyl chloride)	111-64-8	10	10	10	10	T-1, T-2, T-3 changed.
366	Captan	133-06-2	5	15	25	500	
367	Carbachol Chloride	51-83-2	3	7,5	15	15	Added.
368	Carbamic Acid, Methyl-, O-(((2,4-Dimethyl-1, 3-Dithiolan-2-yl)Methylene)Amino)-	26419-73-8	0,2	0,6	1	1	SAX has "2,4-Dimethyl-1,3-dithiolane-2-carboxaldehyde o-(methylcarbamoyl)oxime. Added
369	Carbanolate (propanal,-); (Aldecarb; Methyl-2-(methylthio) propanalde-hyde oxime, 2-)	116-06-3	0,07	0,21	0,3	0,3	
370	Carbaryl	63-25-2	5	15	25	100	
371	Carbazole	86-74-8	0,75	2,5	15	75	T-3 uses 'ip' data All Ts changed.
372	Carbofuran	1563-66-2	0,1	0,3	0,43	0,5	Added.
373	Carbon black	1333-86-4	3,5	10,5	17,5	500	
374	Carbon dioxide	124-38-9	7 500	50 000	50 000	75 000	
375	**Carbon disulfide**	**75-15-0**	30	**30**	**155**	**1 555**	**ERPG-2, -3; ignored ERPG-1**
376	**Carbon monoxide**	**630-08-0**	60	**230**	**430**	**575**	**ERPG-1, -2, -3**
377	**Carbon tetrachloride**	**56-23-5**	60	**128**	**639**	**4 790**	**ERPG-1, -2, -3**
378	Carbon; (Graphite, CASRN 7782-42-5)	7440-44-0	2	6	10	500	
379	Carbonic acid, calcium salt	471-34-1	15	30	50	500	
380	Carbonyl fluoride	353-50-4	5	12,5	12,5	50	
381	Carbonyl sulfide	463-58-1	3	10	60	350	
382	Carbophenothion; (Trithion)	786-19-6	1,25	4	6,8	6,8	Added
383	Carboxylic acid sodium salt	16550-39-3	0,001	0,003	0,02	0,1	
384	Castor oil	8001-79-4	0,125	0,4	3	15	T-2 uses 'sk' data All Ts changed.
385	Catechol	120-80-9	20	60	100	100	
386	Cellulose	9004-34-6	15	30	500	500	RTECS r LD50 & LC50 greater than values entered. Added
387	Ceric ammonium nitrate	16774-21-3	40	100	200	500	CASRN and MF ex TSCA All Ts changed.
388	Ceric ammonium sulfate	7637-03-8	40	125	200	500	CASRN and MF ex TSCA All Ts changed.
389	Ceric oxide	1306-38-3	6	20	125	500	Rat oral LD50 > 5 g/kg T-0, T-1, T-2 changed.
390	Cerium	7440-45-1	10	30	50	250	
391	Cerium chloride	7790-86-5	7,5	25	150	500	T-0, T-1, T-2 changed.
392	Cerium fluoride	7758-88-5	7,5	25	40	500	Rat oral LD50 > 5 g/kg Added
393	Cerium hydroxide	15785-09-8	0,75	0,75	2	75	Added. Listed in TSCA **SAR**
394	Cerium nitrate hexahydrate	10294-41-4	15	50	350	500	
395	Cerium oxalate	z-0010	10	30	50	250	
396	Cerium sulfate	13590-82-4	1	3,5	20	100	All Ts changed.
397	Cerium trioxide	1345-13-7	2	6	40	200	Added. RTECS toxicity data, insoluble compound
398	Cerous nitrate; (Cerium(III) nitrate)	10108-73-3	1	3	20	500	T-0, T-1, T-2 changed.
399	Cerous nitrite	z-0011	0,04	0,1	0,75	75	Added. No toxicity data found. **SAR**
400	Cesium	7440-46-2	10	30	50	500	T-3 uses 'ip' data

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Table 4: Recommended TEELs Rev. 19 (mg/m^3)

No.	Chemical Name	CASRN	Rev.19 Recommended TEELs (mg/m3)				Comments (and changes from TEELs Rev 18)
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
401	Cesium carbonate	534-17-8	10	30	200	500	
402	Cesium chloride	7647-17-8	0,6	2	15	500	
403	Cesium fluoride	13400-13-0	20	60	100	500	
404	Cesium hydroxide	21351-79-1	2	2	7,5	250	CASRN = 12182-83-1 in Intertox not found. Added
405	Cesium iodide	7789-17-5	10	30	200	500	
406	Cesium nitrate	7789-18-6	10	30	200	500	
407	Cesium nitrite	z-0012	0,075	0,2	1,5	60	Added. No toxicity data found. **SAR**
408	Chloramben; (3-Amino-2,5-dichlorobenzoic acid)	133-90-4	35	100	500	500	
409	Chlordane	57-74-9	0,5	1,5	50	100	
410	Chlorfenvinfos	470-90-6	2	6	10	10	Added
411	Chlorinated benzene; (Chlorobenzene)	108-90-7	125	125	2 000	4 000	T-2 changed.
412	Chlorinated polyolefins	68410-99-1	10	30	50	250	
413	**Chlorine**	**7782-50-5**	1,5	**3**	**7,5**	**60**	**ERPG-1, -2, -3**
414	**Chlorine dioxide**	**10049-04-4**	0,25	0,75	**1,4**	**8,4**	**ERPG-2, -3**
415	Chlorine Hi dry granular (as Cl)	z-0013	0,75	1,5	4	30	
416	Chlorine pentafluoride	13637-63-3	15	15	15	300	Added
417	**Chlorine trifluoride**	**7790-91-2**	0,35	**0,35**	**3,5**	**35**	**ERPG-1, -2, -3**
418	Chlormephos	24934-91-6	1,25	4	7	35	Added
419	Chlormequat Chloride; (Choline dichloride)	999-81-5	0,35	1	7	7,5	Added
420	**Chloro-1,1-difluoroethane, 1-; (HCFC-142b)**	**75-68-3**	4 000	**41 000**	**61 500**	**1,03E+05**	**ERPG-1, -2, -3**
421	Chloro-2,4-dinitrobenzene, 1-	97-00-7	3	10	60	350	a=alpha, b=beta, g=gamma form. Added
422	Chloro-2-methyl-1-propene, 3-	563-47-3	3	7,5	60	300	
423	Chloroacetaldehyde	107-20-0	3	3	69	150	T-1, T-2 changed
424	Chloroacetic acid	79-11-8	0,75	2,5	15	75	T-1, T-2 changed
425	Chloroacetone	78-95-5	3,5	3,5	3,5	30	T-0, T-1 changed
426	**Chloroacetyl chloride**	**79-04-9**	0,2	**0,2**	**2,3**	**46**	**ERPG-1, -2, -3**
427	Chloroallyl)-3,5,7-triaza-1-azoniaadamantane chloride, 1-(3-	4080-31-3	10	10	20	200	
428	Chloroaniline, p-	106-47-8	10	30	50	300	
429	Chlorobenzylate; (4,4'-Dichloro-benzilic acid ethyl ester)	510-15-6	0,075	0,25	1,5	300	
430	Chlorobenzylidene malononitrile, o-	2698-41-1	0,4	0,4	0,4	2	
431	Chlorocyclohexanol, trans-2-	6628-80-4	3,5	10	75	400	
432	Chlorocyclohexene; (4-Chlorocyclohexene)	930-65-4	100	300	2 500	12 500	Added. Listed in H&N **SAR**
433	Chlorodiethylaluminum; (Diethylaluminum chloride)	96-10-6	7,5	25	40	500	SAX MW incorrect. Added
434	Chlorodifluoromethane	75-45-6	3 500	4 000	30 000	30 000	T-2 changed.
435	Chloroethanesulfonyl chloride, 2-	1622-32-8	1,25	3,5	25	150	Added
436	Chloroethyl Chloroformate	627-11-2	4	12,5	20	20	Added
437	Chloroethyl vinyl ether, 2-; (Ethene, 2-chloroethoxy-)	110-75-8	1	3	20	100	.

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Table 4: Recommended TEELs Rev. 19 (mg/m^3)

No.	Chemical Name	CASRN	Rev.19 Recommended TEELs (mg/m3)				Comments (and changes from TEELs Rev 18)
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
438	**Chloroform**	**67-66-3**	10	10	**248**	**24 800**	**ERPG-2, -3**
439	Chloro-m-cresol, 4-	59-50-7	7,5	20	150	500	
440	**Chloromethyl methyl ether**	**107-30-2**	0,6	2	**3,3**	**32,9**	**ERPG-2, -3**
441	Chloromethyl(trichloro)silane	1558-25-4	0,1	0,35	2	10	
442	Chloronaphthalene, 1- (alpha)	90-13-1	6	20	125	500	
443	Chloronapthalene,2- (beta)	91-58-7	0,2	0,6	1	500	T-2 changed
444	Chloronitrobenzene, p- ; (p-nitrochlrobenzene)	100-00-5	1	1,92	30	100	T-2 changed.
445	Chloronitrophenol, 2-	619-08-9	3,5	10	75	400	Added
446	Chloroperoxybenzoic acid, 3-	937-14-4	0,4	1,25	7,5	40	T-2 uses 'sk' data All Ts changed.
447	Chlorophacinone	3691-35-8	0,2	0,6	1	1	Added
448	Chlorophenol, m-	108-43-0	0,75	2	15	250	T-2 uses 'sk' data T-0, T-1, T-2 changed.
449	Chlorophenol, o-	95-57-8	2	6	40	300	
450	Chlorophenyl phenyl ether, 4-	7005-72-3	0,0025	0,0075	0,05	0,25	
451	Chlorophenyl thiourea, 2-	5344-82-1	0,75	2,5	4,6	4,6	Added
452	Chloropicrin/Methyl bromide mixture	z-0014	2	3	12,5	60	OSHA TQ list. 0.15 to 0.85 mixture assumed. Added
453	Chloropicrin/Methyl chloride mixture	z-0015	2	2	6	30	OSHA TQ list. 0.30 to 0.70 mixture assumed. Added
454	**Chloropicrin; (Trichloronitromethane)**	**76-06-2**	0,6	**0,7**	**2**	**10**	**ERPG-1, -2, -3**
455	Chloroprene; (Neoprene)	126-99-8	3,5	3,5	3,5	1 000	
456	Chloropropionitrile, 3-	542-76-7	1,5	5	9	40	T-2 changed.
457	Chloropropylene, 2-	557-98-2	3 000	10 000	60 000	1,00E+05	
458	Chloropropyl-n-octylsulfoxide, 3-	3569-57-1	1,5	5	8	500	Added
459	Chloro-p-toluenesulfonamide, sodium salt, n-; (Chloramine T) (see also SFV550)	127-65-1	10	30	50	250	T-3 uses 'ip' data T-3 changed.
460	**Chlorosulfonic acid; (Chlorosulfuric acid)**	**7790-94-5**	1,43	**2**	**10**	**30**	**ERPG-1, -2, -3**
461	Chlorosulfuran	64902-72-3	0,15	0,5	3,5	500	SAX r LC50 > 5900 mg/m3. Added
462	Chlorotoluene, 2-; (o-Chlorotoluene)	95-49-8	250	400	1 250	10 000	
463	Chlorotoluene, 4-; (p-Tolyl chloride)	106-43-4	125	350	2 500	12 500	
464	**Chlorotrifluoroethylene**	**79-38-9**	20	**95**	**475**	**1 425**	**ERPG-1, -2, -3**
465	Chlorotrifluoromethane, (CFC-13)	75-72-9	4 000	12 500	20 000	1,00E+05	T-3 changed
466	Chloroxuron	1982-47-4	2	6	10	500	SAX: "3-(p-(p-Chlorophenoxy)phenyl)-1,1-dimethylurea" LC50>1350mg/m3. Added
467	Chlorpyrifos; (dursban)	2921-88-2	0,2	0,6	10	75	T-2 changed.
468	Chlorthiophos	21923-23-9	1,5	4	7,8	7,8	Added
469	Chromates	13907-45-4	0,05	0,1	0,1	15	T-3 changed.
470	Chromic acetate; (Chromium[III] acetate)	1066-30-4	2	6	10	100	T-3 changed.
471	Chromic chloride; (Chromium(III) chloride)	10025-73-7	1,5	4	7,5	75	T-3 changed.
472	Chromic oxide (Chromium(III) oxide, chromium sesquioxide)	1308-38-9	0,75	2,25	3,75	35	T-1, T-2, T-3 changed.
473	Chromic sulfate; (Chromium(III) sulfate (2:3)	10101-53-8	1,5	2	7,5	75	T-1, T-2, T-3 changed.
474	Chromic trihydroxide; (Chromic(III) acid)	1308-14-1	1	1,5	5	50	T-1, T-2, T-3 changed.

Note: Bolded chemicals and values are official 2002 ERPGs

Table 4: Recommended TEELs Rev. 19 (mg/m^3)

No.	Chemical Name	CASRN	Rev.19 Recommended TEELs (mg/m3)				Comments (and changes from TEELs Rev 18)
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
475	Chromic trioxide; (Chromium(VI) oxide (1:3))	1333-82-0	0,1	0,2	0,2	30	T-1, T-3 changed.
476	Chromic(VI) acid	7738-94-5	0,1	0,2	0,2	35	T-1, T-3 changed.
477	Chromite; (Chromite [mineral])	1308-31-2	0,3	0,3	0,5	500	T-3 changed.
478	Chromium	7440-47-3	1	1,5	2,5	250	
479	Chromium nitrate nonahydrate	7789-02-8	4	10	20	200	
480	Chromium(III) nitrate	13548-38-4	2	6	10	100	T-3 changed.
481	Chromium(III) oxide hydroxide; (Chromium oxyhydroxide)	z-0016	0,75	1	3,75	40	Added
482	Chromium(VI) hydroxide	z-0017	0,01	0,03	0,1	15	No listing found; used Cr(VI) limits **SAR not used**. Added
483	Chromous chloride; (Chromium[II] chloride[1:2])	10049-05-5	1	3,5	6	500	T-3 changed.
484	Chrysene (coal tar volatile)	218-01-9	0,2	0,6	1	80	
485	Cis-1,3-dichloropropene; (Mixture of cis and trans, CASRN 542-75-6)	10061-01-5	4	12,5	20	60	
486	Citric acid	77-92-9	10	30	50	500	
487	Citric acid monohydrate	5949-29-1	1,5	4	30	150	T-3 uses 'ip' data Added
488	Clay absorbent: (Bentonite)	1302-78-9	10	30	50	50	T-3 uses 'iv' data T-3 changed.
489	Coal tar pitch volatiles; (Particulate polycyclic aromatic hydrocarbons)	65996-93-2	0,2	0,6	10	80	T-2 changed.
490	Coal tar, aerosol	8007-45-2	0,1	1,25	7,5	40	
491	Coal tar; (Coal tar volatiles)	8007-45-3	0,2	0,6	1	80	Fake CASRN used to distinguish from '45-2'
492	Cobalt	7440-48-4	0,1	0,1	20	20	T-2 changed
493	Cobalt carbonyl	10210-68-1	0,27	0,27	25	60	T-0, T-1, T-2 changed.
494	Cobalt chloride	7646-79-9	0,125	0,125	20	35	T-2 changed.
495	Cobalt hydroxide	21041-93-0	0,03	0,075	0,15	0,75	Added
496	Cobalt nitrate; (Cobalt(II) nitrate)	10141-05-6	0,15	0,15	3	150	T-2 changed.
497	Cobalt nitrite	z-0018	0,05	0,15	0,25	1,25	Added
498	Cobalt oxide	1308-06-1	0,075	0,075	0,125	500	
499	Cobalt tetraphenylporphine	z-0019	10	30	50	250	
500	Cobalt(II) oxide	1307-96-6	0,075	0,075	12,5	75	See also CND020: Co3O4, CND825: Co2O3 T-2 changed.
501	Cobalt, ((2,2'-(1,2-Ethanediylbis (Nitrilomethylidyne)) Bis(6-Fluorophenolato))(2-)-N,N',O,O')-	62207-76-5	0,15	0,4	3	15	SAX: "n,n'Ethylene bis(3-fluorosalicylideneiminato)cobalt(II)". Added
502	Cobaltous bromide; (Cobalt[II] bromide)	7789-43-7	0,2	0,2	0,35	150	
503	Cobaltous carbonate	513-79-1	0,125	0,125	0,2	250	
504	Colchicine	64-86-8	0,04	0,125	0,9	0,9	T-3 uses 'iv' data
505	Copper	7440-50-8	1	3	5	100	
506	Copper cyanide	544-92-3	1,25	4	6	25	
507	Copper hydroxide	20427-59-2	1,5	4	7,5	400	Added
508	Copper nitrate; (Cupric nitrate)	3251-23-8	3	7,5	60	300	T-1, T-2, T-3 changed.
509	Copper oxide	1317-39-1	1	3,5	5	100	
510	Copper sulfate	7758-98-7	2,5	2,5	6	40	
511	Copper(I) chloride; (Cuprous chloride)	7758-89-6	1,5	4	7,5	60	T-3 changed.

Table 4: Recommended TEELs Rev. 19 (mg/m^3)

No.	Chemical Name	CASRN	Rev.19 Recommended TEELs (mg/m3)				Comments (and changes from TEELs Rev 18)
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
512	Copper(II) chloride (1:2); (Cupric chloride)	7447-39-4	2	6	10	10	T-3 uses 'ip' data T-3 changed.
513	Copper(II) sulfate pentahydrate	7758-99-8	4	10	20	200	Added
514	Coumaphos	56-72-4	1,5	4	30	125	Added
515	Coumatetralyl; (Endrocide)	5836-29-3	3	10	16,5	16,5	Added
516	Creosote (coal tar)	8001-58-9	0,2	0,6	80	80	T-2 changed.
517	Cresols	1319-77-3	20	60	110	1 000	
518	Crimidine; (Castrix)	535-89-7	0,25	0,75	1,2	1,2	Added
519	Cristobalite	14464-46-1	0,05	0,15	2,5	25	T-2 changed.
520	Crocidolite	12001-28-4	0,005	0,015	5	250	T-1, T-2, T-3 changed.
521	**Crotonaldehyde**	**4170-30-3**	0,75	**6**	**30**	**150**	**ERPG-1, -2, -3**
522	Crotonaldehyde, (E)-	123-73-9	2	6	40	150	T-2 changed.
523	Crotonic Acid	3724-65-0	4	12,5	75	400	
524	Cumene hydroperoxide; (Isopropylbenzene hydroperoxide)	80-15-9	10	30	150	150	
525	Cumene; (Isopropyl benzene)	98-82-8	250	250	250	4 000	
526	Cumenol methylcarbamate, m-; (Phenol, 3-[1-methylethyl]-, methylcarbamate)	64-00-6	3	10	16	16	Added
527	Cupferron; (Ammonium-n-nitrosophenylhydroxylamine)	135-20-6	7,5	25	75	75	
528	Cupric acetate, anhydrous; (Copper acetate)	142-71-2	3	7,5	15	200	T-1 changed
529	Cupric nitrate hemipentahydrate (as Cu)	19004-19-4	3,5	10	15	350	T-3 changed.
530	Cupric nitrite	14984-71-5	0,035	0,075	0,6	60	Added. CASRN in TSCA, MF = Cu.2 H-N-O2 **SAR**
531	Cupric oxide	1317-38-0	1,25	3,5	6	125	T-3 changed.
532	Cyanamide	420-04-2	2	6	10	35	
533	Cyanide (and cyanides)	57-12-5	5	5	5	25	
534	Cyanoacetamide	107-91-5	6	20	150	500	
535	Cyanogen	460-19-5	20	20	20	40	
536	Cyanogen bromide	506-68-3	20	44	44	44	
537	**Cyanogen chloride**	**506-77-4**	0,75	0,75	**1**	**10**	**ERPG-2, -3.** T-0, T-1 changed
538	Cyanogen iodide	506-78-5	35	100	180	180	All Ts changed
539	Cyanophos	2636-26-2	1,25	3,5	25	25	CN limits not used. Added
540	Cyanuric fluoride; (2,4,6-Trifluoro-s-triazine)	675-14-9	0,17	0,17	0,17	75	Added
541	Cyclohexane	110-82-7	1 000	3 000	4 000	4 000	
542	Cyclohexanol	108-93-0	200	200	200	1 500	
543	Cyclohexanone; (Ketohexamethylene)	108-94-1	200	200	200	2 500	
544	Cyclohexen-1-one…, 2- ; (Checkmate)	74051-80-2	25	75	500	500	
545	Cyclohexene	110-83-8	1 000	1 000	1 500	6 000	
546	Cycloheximide	66-81-9	0,1	0,3	2	2	
547	Cyclohexylamine	108-91-8	40	40	160	750	T-2 changed
548	Cyclooctatetraene, 1,3,5,7-	629-20-9	3,00E+05	7,50E+05	1,50E+06	2,00E+06	asphixiant: could not find LEL

Note: Bolded chemicals and values are official 2002 ERPGs

Table 4: Recommended TEELs Rev. 19 (mg/m^3)

No.	Chemical Name	CASRN	Rev.19 Recommended TEELs (mg/m3)				Comments (and changes from TEELs Rev 18)
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
549	Cyclopentane	287-92-3	1 500	5 000	11 000	40 000	T-2 changed
550	Cyclopropane	75-19-4	1 000	3 000	20 000	1,00E+05	Added
551	Cyclotol; (RDX-TNT mixture)	z-0020	0,2	3	3	250	2,4,6-Trinitrotoluene mixed with Hexahydro-1,3,5-trinitro-1,3,5-triazine. See PBX T-0, T-1, T-2 changed.
552	Cyclotrinitraminemethylene; (RDX or Cyclonite)	121-82-4	0,5	3	3	40	CASRN also used for RDX and HMX mixtures
553	DDD (1,1-bis(4-Chlorophenyl)-2,2-dichloroethane)	72-54-8	10	30	50	50	
554	DDE (2.2-bis(p-Chlorophenyl)-1,1-dichloroethylene)	72-55-9	10	30	50	400	
555	DDT (Dichlorodiphenyltrichloroethane)	50-29-3	1	3	5	500	
556	Decaborane	17702-41-9	0,3	0,75	10	15	
557	Decahydronaphthalene, cis-; (Decalin)	493-02-7	2,5	7,5	50	400	
558	Decahydronaphthalene, trans-; (Decalin; cis- and trans-)	91-17-8	2,5	7,5	50	400	
559	Decanal	112-31-2	15	40	300	1 500	Added
560	Decane	124-18-5	2,5	7,5	50	25 000	T-2 uses 'sk' data T-0, T-1, T-2 changed.
561	Decene, 1-, homopolymer, hydrogenated	68037-01-4	10	30	50	250	
562	Demeton	8065-48-3	0,1	0,15	2	10	SAX: "Demeton-o+demeton-s"; MW is 258.34 in some references. Added
563	Demeton-s-methyl	919-86-8	0,05	0,15	5	200	Added
564	Deuterium oxide; (Heavy water)	7789-20-0	1 500	5 000	35 000	1,50E+05	
565	Dextran	9004-54-0	0,35	1	6	500	T-2 uses 'iv' data Added
566	Di-2-ethylhexyl adipate	103-23-1	50	150	500	500	T-2 uses 'ip' data T-0, T-1 changed.
567	Diacetate-1,1'-oxybis-ethanol; (Diethylene glycol diacetate)	628-68-2	100	300	500	500	
568	Diacetyl peroxide; (Acetyl peroxide)	110-22-5	7,5	20	150	500	Original list concentration > 70%. Added
569	Dialifor	10311-84-9	1	3	5	5	Added
570	Diaminodiphenyl ether, 4,4'-; (4,4'-Oxydianiline)	101-80-4	0,5	1,5	10	300	
571	Dianisidine dihydrochloride, o-; (3,3'-Dimethoxybenzidine dihydrochloride)	20325-40-0	0,15	0,5	3,5	7,5	
572	Diazomethane	334-88-3	0,35	1	3,5	3,5	T-2 changed.
573	Dibenza(a,h)anthracene	53-70-3	10	30	50	50	T-3 uses 'iv' data
574	Dibenzo(a,e)pyrene; (Naphtho(1,2,3,4-def)chrysene)	192-65-4	0,035	0,1	0,6	3,5	T-2 uses 'sk' data All Ts changed.
575	Dibenzofuran	132-64-9	10	30	50	250	
576	Dibenzo-p-dioxin	262-12-4	10	30	200	500	T-2 uses 'sk' data T-0, T-1, T-2 changed.
577	**Diborane**	**19287-45-7**	0,1	0,15	**1,1**	**3,4**	**ERPG-2, -3**
578	Dibromo-3-chloropropane, 1,2-; (DBCP)	96-12-8	0,01	0,03	0,05	150	
579	Dibromo-4-nitrophenol, 2,6-	99-28-5	0,4	1,25	10	50	T-3 uses 'iv' data Added
580	Dibromochloromethane; (Chlorodibromomethane)	124-48-1	2	6	40	150	
581	Dibromomethane	74-95-3	75	250	500	500	
582	Dibromophenol, 2,6-	608-33-3	0,5	0,5	2,5	2,5	Added. No toxicity data found. **SAR**
583	Dibromopropane, 1,3-	109-64-8	2	6	40	200	T-3 uses 'ip' data All Ts changed.
584	Dibromotetrafluoroethane; (Halon 2402)	124-73-2	1 500	5 000	35 000	1,50E+05	

Note: Bolded chemicals and values are official 2002 ERPGs

Table 4: Recommended TEELs Rev. 19 (mg/m^3)

No.	Chemical Name	CASRN	Rev.19 Recommended TEELs (mg/m3)				Comments (and changes from TEELs Rev 18)
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
585	Dibutyl (2-ethylhexyl)phosphate	z-0021	2,5	7,5	7,5	7,5	Added. No toxicity data found. **SAR**
586	Dibutyl butylphosphonate	78-46-6	0,4	1,25	10	50	T-3 uses 'iv' data Added
587	Dibutyl peroxide, tert-	110-05-4	7,5	20	150	2 500	LC50 > 4100 ppm Added
588	Dibutyl phosphate; (TBP)	107-66-4	7,5	15	40	250	
589	Dibutyl phosphite	1809-19-4	12,5	40	250	500	
590	Dibutyl phthalate	84-74-2	5	15	250	500	T-2 changed.
591	Dibutylhexamethylenediamine, N,N'-	4835-11-4	1	3	20	75	Added
592	Dichloran; (2,6-Dichloro-4-nitroaniline; Resisan)	99-30-9	0,005	0,015	0,125	500	
593	Dichloro(4,4-dimethylzinc -5((((methylamino)carbonyl) oxy)imino)pentanenitrile), (trans-4)-; (Ethienocarb)	58270-08-9	1,5	5	9	9	Added
594	Dichloro-1-fluoroethane, 1,1-; (HCFC-141b; Freon 141)	1717-00-6	2 500	7 500	12 500	1,50E+05	
595	Dichloro-2-butene 1,4-	764-41-0	0,025	0,075	12,5	750	T-2 changed.
596	Dichloro-2-trifluoromethylbenzimidazole, 4,5-; (Chloroflurazole)	3615-21-2	2,5	7,5	13	13	Added
597	Dichloroacetylene	7572-29-4	0,4	0,4	15	15	Added
598	Dichloroamine; (Chlorimide)	3400-09-7	1	3	20	100	
599	Dichlorobenzene, m-	541-73-1	4	12,5	75	400	T-3 uses 'ip' data All Ts changed.
600	Dichlorobenzene, o-	95-50-1	150	300	300	1 250	
601	Dichlorobenzene, p-	106-46-7	400	600	600	750	
602	Dichlorobenzidene 3,3'-	91-94-1	2	6	40	2 000	
603	Dichlorocyclohexane	2108-92-1	1,5	4	35	150	Added. Used H&N MW and MF **SAR**
604	Dichlorocyclohexane, trans-1,2-	822-86-6	75	250	500	500	In H&N, used chlorocyclohexane, CASRN 542-18-7
605	Dichlorodifluoromethane; (Freon 12, CFC 12)	75-71-8	5 000	15 000	50 000	75 000	
606	Dichloroethanol acetate, 1,2-	10140-87-1	2	6	11	40	Added
607	Dichloroethene, cis-1,2	156-59-2	750	750	1 500	7 500	
608	Dichloroethene, trans-1,2; (trans-Acetylene dichloride)	156-60-5	15	50	400	10 000	
609	Dichloroethyl ether; (Oxybis(2-chloro-ethane), 1-1'-)	111-44-4	30	60	150	600	T-2 changed
610	Dichloroethylaluminum; (example of Alkylaluminums)	563-43-9	7,5	7,5	7,5	7,5	Added
611	Dichloroethylbenzene; (Ethyldichlorobenzene)	1331-29-9	20	60	500	500	
612	Dichloroethylene, 1,2-	540-59-0	750	2 000	4 000	4 000	
613	Dichlorofluoromethane; (Freon 21, CFC 21)	75-43-4	40	125	20 000	20 000	T-2 changed.
614	Dichlorohexane	2162-92-7	1,5	4	35	150	Added. CASRN = 2162-92-7 is 1,2-; 2163-00-0 is 1,6-; 13275-18-8 is 2,5- **SAR**
615	Dichloroisopropyl ether	108-60-1	25	75	500	2 500	
616	Dichloromethoxy ethane; (bis(2-Chloroethoxy) methane)	111-91-1	5	15	40	40	
617	**Dichloromethyl ether; (bis[Chloromethyl]ether]**	**542-88-1**	0,004	0,0125	**0,5**	**2,4**	**ERPG-2, -3.**
618	Dichloromethylphenylsilane	149-74-6	1	3	20	20	
619	Dichlorophene	97-23-4	6	15	125	500	
620	Dichlorophenol, 2,4-	120-83-2	10	30	50	250	
621	Dichlorophenol, 2,6-	87-65-0	10	10	35	150	T-3 uses 'ip' data T-1, T-2, T-3 changed.

Note: Bolded chemicals and values are official 2002 ERPGs

Table 4: Recommended TEELs Rev. 19 (mg/m^3)

No.	Chemical Name	CASRN	Rev.19 Recommended TEELs (mg/m3)				Comments (and changes from TEELs Rev 18)
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
622	Dichlorophenoxy acetic acid, 2,4-; (2,4- D salts and esters)	94-75-7	10	10	40	100	
623	Dichloropropane	26638-19-7	15	60	350	1 500	Used the TEELs for isomers 1,1- and 2,2-
624	Dichloropropane, 1,1-	78-99-9	15	50	400	2 000	
625	Dichloropropane, 1,2-; (Propylene dichloride)	78-87-5	350	500	500	1 500	
626	Dichloropropane, 1,3-	142-28-9	35	100	750	1 500	
627	Dichloropropane, 2,2-	594-20-7	350	500	500	1 500	Used propylene dichloride
628	Dichloropropene, 1,1-	563-58-6	4	12,5	20	750	T-1, T-2 changed
629	Dichloropropene, 1,3-	542-75-6	4	12,5	20	250	
630	Dichloropropene, 2,3-	78-88-6	2	6	50	250	
631	Dichloropropene, cis-1,2-; (Propylene dichloride; 1,2-dichloro-1-propene, [Z]-)	6923-20-2	60	150	300	1 500	
632	Dichloropropene, trans-1,2-; (Propylene dichloride; 1,2-dichloro-1-propene, [E]-)	563-54-2	60	150	300	1 500	
633	Dichloropropene, trans-1,3-	10061-02-6	4	12,5	20	100	Used cis-1,3 isomer (DGH200). Added
634	Dichlorosilane	4109-96-0	50	150	350	350	
635	Dichlorotetrafluoroethane; (Freon 114, CFC114)	76-14-2	6 000	20 000	60 000	1,00E+05	
636	Dichlorovos; (Dichlorvos)	62-73-7	2,5	2,5	20	750	T-2 changed
637	Dicrotophos	141-66-2	0,25	0,75	0,9	40	Added
638	Dicyclohexano-18-crown-6	16069-36-6	0,2	0,6	4	75	
639	Dicyclopentadiene	77-73-6	25	25	40	200	
640	Dieldrin	60-57-1	0,25	0,75	1,25	50	
641	Diesel fuel marine; (Diesel fuel No. 4)	z-0022	100	350	500	500	T-2 uses 'sk' data T-0, T-1 changed.
642	Diesel fuel marine; (Fuel oil No.2)	68476-30-2	2,5	7,5	60	500	T-2 uses 'sk' data T-0, T-1, T-2 changed.
643	Diesel fuels	68334-30-5	35	100	500	500	
644	Diethanolamine	111-42-2	2	6	10	300	
645	Diethoxydimethylsilane	78-62-6	30	75	600	3 000	
646	Diethyl chlorophosphate	814-49-3	0,4	1	8	8	
647	Diethyl ethylphosphonate	78-38-6	7,5	25	150	500	
648	Diethyl mercury	627-44-1	0,0125	0,04	0,05	2,5	T-0, T-1, T-2 changed T-3 changed.
649	Diethyl methylphosphonate; (DEMP)	683-08-9	7,5	25	200	500	T-3 uses 'ip' data T-0, T-1, T-2 changed.
650	Diethyl phthalate; (Ethyl phthalate)	84-66-2	5	15	25	500	
651	Diethyl sulfate	64-67-5	1,5	5	40	150	T-2 uses 'iv' data T-0, T-1, T-2 changed.
652	Diethylamine	109-89-7	40	40	75	600	
653	Diethylaminoacetone	1620-14-0	2,5	7,5	50	250	Added. No toxicity data found. **SAR**
654	Diethylaniline, n,n-	91-66-7	3	10	60	350	
655	Diethylbenzene, m-	141-93-5	40	125	500	500	
656	Diethylbenzene, o-	135-01-3	2,5	7,5	50	500	
657	Diethylene glycol	111-46-6	10	30	50	400	
658	Diethyleneoxide, 1,4-; (1,4-Dioxane)	123-91-1	350	350	350	1 500	

Table 4: Recommended TEELs Rev. 19 (mg/m^3)

No.	Chemical Name	CASRN	Rev.19 Recommended TEELs (mg/m3)				Comments (and changes from TEELs Rev 18)
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
659	Diethylenetriamine	111-40-0	4	4	7,5	400	
660	Diethylenetriaminepentaacetic acid	67-43-6	10	30	50	200	T-3 uses 'ip' data T-3 changed.
661	Diethylstilbestrol; (Phenol,4,4¢-(1,2-diethyl-1,2-ethenediyl) bis-,(E))	56-53-1	0,0125	0,04	0,3	15	T-3 uses 'ip' data T-3 changed.
662	Diethylthiourea, n,n'-	105-55-5	0,6	1,5	12,5	125	
663	Diethylurea, 1,3-	623-76-7	25	75	500	2 500	T-3 uses 'ip' data Added
664	Diethylzinc	557-20-0	7,5	15	15	50	Limits and LC50 based on SAX Safety Profile Added
665	Difluoroethane; (1,1-Difluoroethane)	75-37-6	1 000	3 000	20 000	2,00E+05	
666	Digitoxin	71-63-6	0,0075	0,025	0,18	0,25	Added
667	Diglycidyl Ether	2238-07-5	0,5	2,5	45	50	Added
668	Diglycol monoethyl ether acetate; (Carbitol acetate)	112-15-2	40	125	500	500	
669	Digoxin	20830-75-5	0,04	0,125	0,2	5	Added
670	Dihexyl-N,N-diethylcarbamoyl methyl phosphonate	7369-66-6	10	12,5	50	400	MSDS data
671	Dihydro 2(3H)furanone; (4-Butanolide)	96-48-0	2	6	40	500	Added
672	Dihydro-4-methyl furan, 2,3-	34314-83-5	1,5	5	35	150	Based on methylfuran
673	Dihydrogen hexachloroplatinum (IV); (Chloroplatanic acid)	16941-12-1	0,004	0,012	0,02	7,5	T-1, T-2, T-3 changed.
674	Dihydroxyanthraquinone, 1,8-	117-10-2	25	75	200	200	T-3 uses 'ip' data T-2, T-3 changed.
675	Diisobutylamine	110-96-3	1	3	20	100	
676	Diisopropyl methylphosphonate	1445-75-6	10	30	50	350	
677	Diisopropyl peroxydicabonate	105-64-6	7,5	25	150	500	Added
678	Diisopropylamine	108-18-9	20	20	100	750	
679	Diisopropylamino ethylchloride hydrogen chloride	4261-68-1	0,0125	0,035	0,25	1,25	
680	Di-isopropylaminoethanol, 2-; (N,N-Diisopropylehanolamine)	96-80-0	2,5	7,5	50	250	
681	Diisopropylfluorophosphate; (Phosphorofluoridic acid,bis(1-methylethyl) ester)	55-91-4	0,75	2	3,6	3,6	
682	Diisopropylnaphthalene; (Bis(isopropyl)naphthalene)	38640-62-9	12,5	40	300	500	
683	**Diketene; (Ketene dimer)**	**674-82-8**	3,44	**3,44**	**17,2**	**68,8**	**ERPG-1, -2, -3**
684	Dilauroyl peroxide	105-74-8	0,02	0,06	0,4	2	T-2 uses 'sk' data Added
685	Dimefox; (bis(Dimethylamido)fluoro phosphate)); (Phosphorodithioate)	115-26-4	0,2	0,6	1	1	Added
686	Dimethanonaphthalene1,4,5,8-; (Aldrin)	309-00-2	0,25	0,75	10	25	
687	Dimethoate	60-51-5	6	15	30	30	Added
688	Dimethoxybenzidene 3,3'-; (o-Dianisidine)	119-90-4	1,5	5	35	500	
689	Dimethoxybutane, 1,3-	10143-66-5	40	100	750	4 000	
690	Dimethoxybutane, 2,2-	3453-99-4	35	100	750	4 000	Based on 1,3-dimethoxybutane
691	Dimethoxyethane	110-71-4	12,5	40	300	4 000	
692	Dimethyglyoxime; (Diacetyl dioxime)	95-45-4	10	30	50	200	
693	Dimethyl acetiminde, n,n-	127-19-5	35	100	150	1 000	Added
694	Dimethyl butane, 2,2-	75-83-2	1 500	1 500	1 500	7 500	
695	Dimethyl carbamoyl chloride	79-44-7	0,75	2,5	15	500	

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Table 4: Recommended TEELs Rev. 19 (mg/m^3)

No.	Chemical Name	CASRN	Rev.19 Recommended TEELs (mg/m3)				Comments (and changes from TEELs Rev 18)
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
696	**Dimethyl disulfide**	**624-92-0**	0,04	**0,04**	**193**	**963**	**ERPG-1, -2, -3**
697	Dimethyl hydrogen phosphite	868-85-9	20	60	400	500	
698	Dimethyl mercury	593-74-8	0,01	0,035	0,04	2	
699	Dimethyl methylphosphonate; (DMMP)	756-79-6	100	350	500	500	
700	Dimethyl phosphorochloridothioate	2524-03-0	1,5	4	30	150	Added
701	Dimethyl siloxane; (Syltherm; Silicone 360)	63148-62-9	10	30	50	250	
702	Dimethyl sulfate	77-78-1	5	5	5	35	
703	**Dimethyl sulfide; (2-Thiopropane)**	**75-18-3**	1,27	**1,27**	**1 270**	**5 080**	**ERPG-1, -2, -3**
704	Dimethyl sulfoxide; (DMSO)	67-68-5	35	100	500	500	T-2 uses 'iv' data T-0, T-1 changed.
705	Dimethyl(1-phenylethyl)benzene, 1-	40766-31-2	10	30	50	500	
706	Dimethyl--2-pentene, (E)-3,4-	4914-92-5	1,5	5	35	150	
707	**Dimethylamine**	**124-40-3**	15	**25**	**150**	**750**	**ERPG-2, -3; ignored ERPG-1**
708	Dimethylaminoazobenzene, 4-	60-11-7	15	50	75	75	T-2 uses 'ip' data T-0, T-1 changed.
709	Dimethylamino-benzaldehyde, p-	100-10-7	7,5	25	150	250	T-2 uses 'ip' data T-3 uses 'ip' data All Ts changed.
710	Dimethylaniline, N,N-	121-69-7	25	50	50	500	
711	Dimethylbenzidene 3,3'-; (o-Tolidine)	119-93-7	0,1	0,3	2	100	T-3 uses 'ip' data All Ts changed.
712	Dimethylcyclohexane, cis-1,4-	624-29-3	3,5	10	60	350	In H&N, based on cyclohexane
713	Dimethyldecane, 2,2-	17302-37-3	350	350	1 800	7 500	NIOSH limits for Alkanes used. Added
714	**Dimethyldichlorosilane**	**75-78-5**	3,5	**10**	**50**	**400**	**ERPG-1, -2,-3**
715	Dimethylethyl hydroperoxide, 1,1-; (tert-Butylhydroperoxide)	75-91-2	3	10	60	200	
716	**Dimethylformamide**	**68-12-2**	6	**6**	**299**	**598**	**ERPG-1, -2, -3**
717	Dimethylheptane, 2,2-	1071-26-7	350	350	1 800	7 500	In HC&P; NIOSH limits for Alkanes used. Added
718	Dimethylhexane, 3,3-	563-16-6	350	350	1 800	7 500	In HC&P; NIOSH limits for Alkanes used. Added
719	Dimethylhydrazine, 1,1-	57-14-7	0,075	0,075	12,5	35	
720	Dimethylhydrazine, 1,2-	540-73-8	0,4	1,25	7,5	300	T-2 uses 'ip' data T-0, T-1, T-2 changed.
721	Dimethylnonane, 2,6-	17302-23-7	750	1 500	1 500	1 500	Based on nonane-butane ratio
722	Dimethyloctane, 3,5-	15869-93-9	600	1 000	3 000	15 000	Based on octane-butane ratio. T-3 changed
723	Dimethylphenol, 2,4-; (2,4-Xylenol)	105-67-9	2	6	50	500	T-2 uses 'sk' data T-0, T-1, T-2 changed.
724	Dimethylphenol, 2,6-; (2,6-Xylenol)	576-26-1	0,75	2	15	125	
725	Dimethylphthalate	131-11-3	5	15	25	500	
726	Dimethyl-p-phenylenediamine, N,N-	99-98-9	0,025	0,075	0,13	1	
727	Dimethylpropane, 2,2-; (Neopentane)	463-82-1	1 500	1 500	1 500	1,50E+05	T-0, T-1, T-2 changed
728	Dimethylpyridine, 2,4-; (2,4-Lutidine)	108-47-4	0,75	2,5	15	75	Added
729	Dimetilan	644-64-4	5	15	25	25	Added
730	Di-n-butylamine	111-92-2	2,5	7,5	50	250	
731	Dinitraniline; (Hansa orange RN)	3468-63-1	10	30	50	250	
732	Dinitroaniline, 2,4-	97-02-9	0,035	0,1	0,75	12,5	Added

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Table 4: Recommended TEELs Rev. 19 (mg/m^3)

No.	Chemical Name	CASRN	Rev.19 Recommended TEELs (mg/m3)				Comments (and changes from TEELs Rev 18)
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
733	Dinitrobenzene, m-	99-65-0	1	3	5	50	
734	Dinitrobenzene, o-	528-29-0	1	3	5	50	
735	Dinitrobenzene, p-; (Piperidine, 1-nitroso-)	100-25-4	1	3	5	50	
736	Dinitro-o-cresol, 4,6- and salts	534-52-1	0,2	0,2	0,5	5	
737	Dinitrophenol	25550-58-7	0,25	0,75	5	25	
738	Dinitrophenol 2,4-	51-28-5	3	7,5	30	30	See also CASRN 25550-58-7
739	Dinitrophenol, 2,3-	66-56-8	0,75	2	15	75	T-3 uses 'ip' data All Ts changed.
740	Dinitrophenol, 2,6-	573-56-8	0,15	0,4	3	15	T-3 uses 'ip' data All Ts changed.
741	Dinitrosopiperazine; (Piperazine, 1,4-dinitroso-)	140-79-4	0,5	1,5	10	60	Added
742	Dinitrotoluene	25321-14-6	0,2	0,6	10	50	T-2 changed.
743	Dinitrotoluene 2,4-	121-14-2	0,2	0,6	10	50	T-2 changed.
744	Dinitrotoluene 2,6-	606-20-2	0,2	0,6	1	50	
745	Dinitrotoluene, 3,4-	610-39-9	0,2	0,6	1	50	. Limits are for mixed isomers
746	Dinoseb; (2-sec-Butyl-4,6-dinitrophenol)	88-85-7	4,5	4,5	4,5	10	
747	Dinoterb; (2-[1,1-Dimethylethyl]-4,6-dinitrophenol)	1420-07-1	5	15	25	25	Used RTECS LD50 < SAX LD50. Added
748	Dioctyl phthalate, n-;	117-84-0	15	50	400	500	T-2 uses 'ip' data T-0, T-1, T-2 changed.
749	Dioctyl sodium sulfosuccinate; (Di-[2-ethylhexyl] sodium sulfosuccinate)	577-11-7	7,5	20	150	500	
750	Dioxathion	78-34-2	0,2	0,6	3,5	150	Added
751	Dioxine; (TCDD; 2,3,6,7-tetrachlorodibenzo-p-dioxin)	1746-01-6	0,0006	0,0015	0,0075	0,0075	T-2 uses 'sk' data T-0, T-1 changed.
752	Dioxolane, 1,3-	646-06-0	60	60	210	7 500	T-1, T-2 changed
753	Dipentyl pentylphosphonate	6418-56-0	10	30	50	500	
754	Diphacinone; (Diphenadione)	82-66-6	0,15	0,5	0,9	500	Added
755	Diphenyl mercury (aryl compound)	587-85-9	0,1	0,1	0,1	10	
756	Diphenyl; (Biphenyl)	92-52-4	1	3,9	6,5	100	
757	Diphenylamine	122-39-4	10	30	125	125	T-2 changed.
758	Diphenylguanidine, 1,3-	102-06-7	0,2	0,6	4	125	
759	Diphenylhydrazine, 1,2,3-	122-66-7	10	30	50	125	
760	Diphenylnitrosamine	86-30-6	7,5	25	150	500	
761	Diphenyloxazole, 2,5-	92-71-7	10	30	50	300	T-3 uses 'ip' data T-3 changed.
762	Dipotassium cadmium oxide (X)	z-0023	0,01	0,06	0,1	15	Added
763	Dipotassium dihydrogen silicate	z-0024	10	30	50	250	MW = 140.30 for MF = K2H2SiO2. Added
764	Dipotassium metasilicate	10006-28-7	6	15	125	500	Added. TSCA listed, no toxicity data; **SAR**
765	Dipotassium zirconium oxide (X)	z-0025	12,5	25	25	125	Added
766	Dipropyl ketone; (4-Heptanone)	123-19-3	200	200	300	1 500	Added
767	Dipropylamine	142-84-7	15	50	350	500	
768	Dipropylene glycol methyl ether	34590-94-8	600	750	750	2 500	
769	Di-sec-octylphthalate	117-81-7	5	10	25	500	

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Table 4: Recommended TEELs Rev. 19 (mg/m^3)

No.	Chemical Name	CASRN	Rev.19 Recommended TEELs (mg/m3)				Comments (and changes from TEELs Rev 18)
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
770	Disodium (2-ethylhexyl)phosphate	z-0026	0,02	0,06	0,4	2	Added. No toxicity data found. **SAR**
771	Disodium butylphosphate	12786-93-1	0,02	0,06	0,4	2	Added. No toxicity data found. SAR
772	Disodium butylphosphonate	3321-64-0	0,02	0,06	0,4	2	Added. CASRN in H&N is for 1-Butanephosphonic acid, MW = 138.10 **SAR**
773	Disodium cadmium oxide (X)	z-0027	0,0075	0,05	0,075	15	Added.
774	Disodium dihydrogen silicate	z-0028	10	30	50	250	Added
775	Disodium ethylenediaminediacetate (S and U isomers)	38011-25-5	4	12,5	75	400	Added. RTECS, TSCA & H&N have different names for this CASRN. RTECS MW = 222.18 SAR
776	Disodium iminodiacetate (IDA)	928-72-3	35	100	600	3 500	TSCA has MF with H7 rather than H5. Added
777	Disodium zirconium oxide (X)	z-0029	10	20	20	100	Added
778	Disodium-3,6-endoxohexahydrophthalate	129-67-9	1	3	20	20	
779	Disulfiram	97-77-8	2	2	3	125	
780	Disulfoton	298-04-4	0,1	0,3	2	75	Added
781	Dithiazanine iodide; (3,3'-Diethylpentamethinethiacyanne iodide)	514-73-8	4	12,5	20	20	
782	Dithiobiuret	541-53-7	1	3	5	5	Added
783	Divinylbenzene, m-; (m-Vinylstyrene)	108-57-6	50	50	100	500	
784	Divynylbenzene, mixed isomers; (Vinylstyrene)	1321-74-0	50	100	250	4 000	
785	Dodecamethylcyclohexasiloxane	540-97-6	10	30	50	500	Added. r os LD50 > 50 g/kg in RTECS **SAR**
786	Dodecane	112-40-3	2,5	7,5	60	750	T-2 uses 'sk' data T-0, T-1, T-2 changed.
787	Dodecyl alcohol	112-53-8	0,5	1,5	10	500	T-2 uses 'sk' data T-0, T-1, T-2 changed.
788	Dodecylbenzene sulfonic acid; (Laurylbenzenesulfonic acid)	27176-87-0	2,5	7,5	50	250	
789	DOWEX-50-X8 resin	69011-20-7	10	30	50	250	
790	Dysprosium nickelide (as Dy)	12175-27-8	10	30	50	250	
791	Dysprosium nitrate	10143-38-1	10	30	50	500	
792	Dysprosium oxide	1308-87-8	20	60	400	500	Added. Rat oral LD50 > 5 g/kg
793	Ecolite	z-0030	10	30	50	500	
794	Emetine dihydrochloride, 1-	316-42-7	0,05	0,15	0,25	0,25	T-0, T-1, T-2 changed.
795	Endosulfan	115-29-7	0,1	0,3	0,8	35	
796	Endothion	2778-04-3	3,5	10	17	17	Added
797	Endrin	72-20-8	0,1	0,3	2	2	
798	Epibatadine (nicotine-like)	z-0031	0,0015	0,004	0,025	0,025	T-2 uses 'ip' data T-3 uses 'ip' data All Ts changed.
799	**Epichlorohydrin**	**106-89-8**	7,5	**7,5**	**75**	**350**	**ERPG-1, -2, -3**
800	Epinephrine; (Vasotonin; 1,2-Benzenediol, 4-[1-hydroxy-2-(methylamino) ethyl]-)	51-43-4	0,25	0,25	0,25	0,25	T-3 uses 'sk' data
801	EPN; (0-Ethyl-0-[4-nitrophenyl] phenyl-thiophosphorate)	2104-64-5	0,3	0,3	5	5	Added
802	Epoxy resin; (Epichlorhydrin + diethylene glycol)	25928-94-3	0,06	0,2	1,25	6	
803	Epoxy resin (EPON 1001)	25068-38-6	10	30	50	500	
804	Epoxy resin (EPON 1007)	25068-38-7	10	30	50	500	Fake CASRN used to distinguish from 25068-38 6
805	Epoxy resin (EPON 820)	25068-38-8	10	30	50	500	Fake CASRN used to distinguish from 25068-38 6

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Table 4: Recommended TEELs Rev. 19 (mg/m^3)

No.	Chemical Name	CASRN	Rev.19 Recommended TEELs (mg/m3)				Comments (and changes from TEELs Rev 18)
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
806	Epoxy resin ERL-2795	25068-38-9	10	30	50	500	Fake CASRN used to distinguish from 25068-38 6
807	Epoxy resin, cured	30583-72-3	10	30	50	250	
808	Epoxybutane, 1,2- ; (1,2-Butylene oxide)	106-88-7	100	350	1 250	1 250	
809	Erbium nitrate pentahydrate	10031-51-3	10	30	50	250	
810	Erbium oxide	12061-16-4	20	60	400	500	Added. Rat oral LD50 > 5 g/kg
811	Erbium(III) nitrate	10168-80-6	0,2	0,6	5	25	T-3 uses 'iv' data All Ts changed.
812	Erbium(III) nitrate hexahydrate	13476-05-6	1	3	20	100	
813	Ergocalciferol; (Vitamin D2)	50-14-6	7,5	25	40	40	Added; wmn TDlo differs in SAX and RTECS
814	Ergotamine tartrate	379-79-3	2	6	10	60	T-3 uses 'iv' data Added
815	Ethane	74-84-0	35 000	35 000	35 000	35 000	Asphixiant, all Ts changed to LEL=3%
816	Ethanediyl)bis-benzene, 1,1'- (1,2-; (Bibenzyl)	103-29-7	15	50	400	500	
817	Ethanethiol; (Ethyl mercaptan)	75-08-1	1,25	25	25	1 250	T-1 changed
818	Ethanolamine	141-43-5	7,5	15	75	75	
819	Ethidium bromide; (2,7-Diamino-10-ethyl-9-phenylphenanthridinium bromide)	1239-45-8	0,15	0,5	4	20	
820	Ethion	563-12-2	0,4	1,2	13	350	Added
821	Ethoxyethanol, 2-	110-80-5	1,5	50	750	1 500	T-2 changed.
822	Ethoxyethoxy-)ethanol, 2-(2-; (Carbitol cellosolve; Glycol ether DE)	111-90-0	125	400	600	2 500	
823	Ethoxyethylacetate, 2-	111-15-9	2,5	75	125	2 500	
824	Ethoxylated alcohols, C7-C21	68991-48-0	10	10	10	10	
825	Ethoxylated p-nonylphenol; (Nonyl phenyl polyethylene glycol ether)	9016-45-9	5	15	100	500	
826	Ethyl (or dimethyl) pyrrolidine	z-0032	5	15	100	500	Added. No toxicity data found. SAR
827	Ethyl acetate	141-78-6	1 500	1 500	1 500	7 500	
828	**Ethyl acrylate**	**140-88-5**	60	60	**123**	**1 230**	**ERPG-2, -3; ignored ERPG-1**
829	Ethyl alcohol; (ethanol)	64-17-5	1 500	5 000	6 000	6 000	
830	Ethyl amyl ketone; (3-Octanone)	106-68-3	125	125	125	500	T-3 uses 'ip' data CASRN = 541-85-5 in OEV Guide, SAX, RTECS, etc. IDLH used. Added
831	Ethyl benzene	100-41-4	400	500	500	3 500	
832	Ethyl butyl ketone; (3-Heptanone)	106-35-4	200	350	750	4 000	IDLH used. Added
833	Ethyl chloride	75-00-3	2 500	2 500	2 500	10 000	
834	Ethyl chloroformate	541-41-3	4	4	7,5	40	
835	Ethyl dimethylamidocyanophosphate; (Tabun; GA)	77-81-6	0,03	0,075	0,15	3	
836	Ethyl ether	60-29-7	1 250	1 500	1 500	6 000	
837	Ethyl hexanoic acid, 2-; (Butyl ethyl acetic acid)	149-57-5	6	15	125	500	
838	Ethyl mercury chloride; (Chloroethyl mercury)	107-27-7	0,0125	0,04	0,05	2,5	T-3 changed.
839	Ethyl methacrylate, (2-Methyl-2-propenoic acid, ethyl ester)	97-63-2	2,5	7,5	60	4 000	T-2 uses 'ip' data T-0, T-1, T-2 changed.
840	Ethyl nitrite	109-95-5	2	6	40	200	Name chaged from "nitrate" to "nitrite". Added
841	Ethyl-1-hexanol, 2-	104-76-7	5	15	100	500	
842	Ethyl-2-methyl heptane, 3-	14676-29-0	75	250	2 000	10 000	In HC&P, LC50 estimated.

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Table 4: Recommended TEELs Rev. 19 (mg/m^3)

No.	Chemical Name	CASRN	Rev.19 Recommended TEELs (mg/m3)				Comments (and changes from TEELs Rev 18)
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
843	Ethyl-2-methyloctane, 6-	z-0033	2	6	40	200	Undecane toxicity data used (C11 Alkanes) Added
844	Ethyl-5-methylheptane, 3-	52896-90-9	2,5	7,5	50	25 000	P-Chem data ex HC&P Added
845	Ethylamine; (Monoethylamine; Ethylamine anhydrous)	75-04-7	15	25	40	1 000	
846	Ethyl-benzaldehyde	22927-13-5	50	150	1 000	6 000	LC50 estimated. TSCA & MSDS give CASRN = 4748-78-1; TSCA also has 53951-50-1
847	Ethylbis(2-chloroethyl)amine; (Bis(2-chloroethyl)ethylamine)	538-07-8	1,5	4	7,5	30	Added
848	Ethylene	74-85-1	150	500	3 500	15 000	
849	Ethylene chlorohydrin	107-07-3	3	3	20	20	T-2 changed
850	Ethylene dibromide	106-93-4	150	200	200	750	T-1 changed
851	Ethylene dichloride; (1,2-Dichloroethane)	107-06-2	200	202	810	1 210	**ERPG-1, -2, -3**
852	Ethylene fluorohydrin; (2-Fluoroethanol)	371-62-0	0,0125	0,04	0,07	3,5	Added
853	Ethylene glycol	107-21-1	25	50	100	150	T-0 changed.
854	Ethylene glycol monomethyl ether; (Methyl Cellosolve(R))	109-86-4	15	15	15	5 000	
855	Ethylene glycol monopropyl ether; (Propyl cellosolve, Ektasolve EP)	2807-30-9	15	50	350	1 500	
856	Ethylene glycol mono-sec-butyl ether	7795-91-7	3	10	60	350	
857	**Ethylene oxide; (Oxirane)**	**75-21-8**	1,5	7,5	**90**	**900**	**ERPG-2, -3** T-1 changed
858	Ethylenediamine, 1,2-	107-15-3	25	25	50	2 500	
859	Ethylenediaminetetraacetic acid, disodium salt	139-33-3	60	150	500	500	
860	Ethylenediaminetetraacetic acid; (Tetrasodium EDTA)	64-02-8	1,25	4	30	150	T-3 uses 'ip' data All Ts changed.
861	Ethylenediaminetetraacetic acid; (Tetrasodium EDTA)	60-00-4	10	30	150	150	T-3 uses 'ip' data T-2, T-3 changed.
862	Ethyleneimine	151-56-4	0,75	0,75	4	150	T-2 changed
863	Ethylenethiourea; (2-Imidazolidinethione)	96-45-7	3,5	10	75	500	
864	Ethylheptane, 4-	2216-32-2	15	50	350	1 500	In H&N, LD 50 estimated
865	Ethylidene chloride, 1,1-; (1,1-Dichloroethane)	75-34-3	400	1 250	12 500	12 500	T-2 changed.
866	Ethyl-s-dimethylaminoethyl methylphosphonothiolate; (VX nerve agent)	50782-69-9	0,0001	0,00035	0,002	0,015	T-3 changed.
867	Ethylthiocyanate	542-90-5	20	60	100	100	T-3 uses 'ip' data Added
868	Ethyltoluene, o-	611-14-3	0,1	0,3	2	500	T-2 uses 'ip' data T-0, T-1, T-2 changed.
869	Ethyltoluene, p-	622-96-8	40	125	500	500	
870	Europium	7440-53-1	10	30	50	250	In TSCA only
871	Europium nitrate; (Europium trinitrate)	10138-01-9	15	50	350	500	
872	Europium oxide	1308-96-9	20	60	400	500	Added. Rat oral LD50 > 5 g/kg
873	Fenamiphos	22224-92-6	0,1	0,3	0,9	40	Added
874	Fensulfothion	115-90-2	0,1	0,3	2	12,5	Added
875	Ferric ammonium citrate	1185-57-5	1	3	500	500	T-2 changed.
876	Ferric ammonium sulfate	z-0034	1	3	5	25	
877	Ferric chloride	7705-08-0	3	7,5	15	200	T-2 uses 'ip' data T-1, T-2 changed.
878	Ferric chloride hexahydrate	10025-77-1	5	5	20	100	T-3 uses 'ip' data T-2, T-3 changed.
879	Ferric fluoride	7783-50-8	15	40	75	500	All Ts changed.

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Table 4: Recommended TEELs Rev. 19 (mg/m^3)

No.	Chemical Name	CASRN	Rev.19 Recommended TEELs (mg/m3)				Comments (and changes from TEELs Rev 18)
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
880	Ferric hydroxide	1309-33-7	3,5	10	75	400	T-0, T-1, T-2 changed.
881	Ferric nitrate; (Iron salts, soluble)	10421-48-4	4	12,5	20	100	
882	Ferric nitrate; (Iron(III) nitrate nonahydrate (1:3:9))	7782-61-8	7,5	22,5	37,5	500	T-1, T-2 changed.
883	Ferric phosphate	10045-86-0	2,5	7,5	12,5	60	All Ts changed
884	Ferric sulfate; (Iron(III) sulfate)	10028-22-5	0,6	2	15	75	T-3 uses 'ip' data T-0, T-1, T-3 changed.
885	Ferrous ammonium sulfate	10045-89-3	5	15	25	125	
886	Ferrous chloride	7758-94-3	2	6	10	200	
887	Ferrous hydroxide	18624-44-7	3,5	10	75	400	T-0, T-1, T-2 changed.
888	Ferrous sulfamate	14017-39-1	1	3	5	25	
889	Ferrous sulfate	7720-78-7	2,5	7,5	12,5	350	
890	Ferrous sulfate heptahydrate	7782-63-0	5	15	25	500	
891	Ferrous sulfide; (Iron sulfide)	12068-85-8	2	6	10	50	
892	Fiber glass	z-0035	5	15	25	125	
893	Fluenetil	4301-50-2	1,25	3,5	6	6	Added
894	Fluoranthene	206-44-0	0,005	0,015	0,1	500	T-2 uses 'sk' data T-0, T-1, T-2 changed.
895	Fluorene, 9H-	86-73-7	7,5	25	150	500	T-3 uses 'ip' data T-0, T-1, T-2 changed.
896	Fluorides (as F)	16984-48-8	2,5	2,5	2,5	250	
897	**Fluorine**	**7782-41-4**	0,15	**0,775**	**7,75**	**31**	**ERPG-1, -2, -3**
898	Fluoro-4-nitrophenol, 2-	21571-34-6	0,75	2,5	15	75	Added. No toxicity data found. **SAR**
899	Fluoro-6-nitrophenol, 2-	1526-17-6	0,75	2,5	15	75	Added. No toxicity data found. **SAR**
900	Fluoroacetamide	640-19-7	1	3,5	5,8	5,8	Added
901	Fluoroacetic acid,sodium salt; (Sodium fluoroacetate)	62-74-8	0,05	0,15	0,5	2,5	
902	Fluoroacetic acid; (Fluoroethanoic acid)	144-49-0	0,075	0,25	0,47	2	Added
903	Fluoroacetyl chloride	359-06-8	2	6	10	10	Added
904	Fluoronitrophenol, 2-	z-0036	0,75	2,5	15	75	Added. No toxicity data found. SAR
905	Fluorotrimethylsilane	420-56-4	10	30	200	1 000	In TSCA , H&N; based on silicon fluoride
906	Fluorouracil	51-21-8	0,75	2,5	19	100	
907	Fonofos	944-22-9	0,1	0,3	1,3	200	Added
908	**Formaldehyde**	**50-00-0**	0,35	**1,25**	**12,5**	**30**	**ERPG-1, -2, -3**
909	Formaldehyde cyanohydrin; (Hydroxyacetonitrile; Glycolonitrile)	107-16-4	0,3	0,75	6	10	Added
910	Formamide	75-12-7	15	15	75	2 500	T-2 uses 'sk' data T-1 changed.
911	Formetanate hydrochloride	23422-53-9	3,5	10	18	18	Added
912	Formic acid	64-18-6	7,5	15	15	50	
913	Formic acid, 2-propenyl ester; (Allyl formate)	1838-59-1	4	12,5	75	400	Added.
914	Formic acid, butyl ester; (n-Butyl formate)	592-84-7	200	600	4 000	4 000	Added
915	Formothion	2540-82-1	0,05	0,15	0,27	10	Added
916	Formparanate	17702-57-7	1,5	4	7,2	7,2	Added

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Table 4: Recommended TEELs Rev. 19 (mg/m^3)

No.	Chemical Name	CASRN	Rev.19 Recommended TEELs (mg/m3)				Comments (and changes from TEELs Rev 18)
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
917	Fosthietan	21548-32-3	0,75	2,5	4,7	4,7	Added
918	Fuberidazole	3878-19-1	0,6	2	3,3	125	Added
919	Fuel oil	68476-33-5	35	100	500	500	
920	Fumaric acid	110-17-8	40	100	500	500	
921	Furan	110-00-9	0,6	1,2	12,5	20	T-1, T-2 changed.
922	**Furancarboxyaldehyde, 2-; (Furfural)**	**98-01-1**	7,5	**8**	**39**	**393**	**ERPG-1, -2, -3**
923	Furancarboxylic acid, ethyl ester, 2-; (Ethyl furoate)	614-99-3	1,5	4	30	150	T-3 uses 'iv' data Added
924	Furfuryl alcohol	98-00-0	60	60	60	300	
925	Fusariotoxin T2; (T2-Trichothecene)	21259-20-1	0,0035	0,01	0,075	0,4	
926	Gadolinium hydroxide	16469-18-4	0,75	0,75	2,5	75	Added. TSCA CASRN. No toxicity data found **SAR**
927	Gadolinium nitrate, solid	10168-81-7	10	30	50	500	
928	Gadolinium nitrite	z-0037	0,04	0,125	0,75	75	Added. No toxicity data found. **SAR**
929	Gadolinium(III) oxide	12064-62-9	2	6	50	500	r LD50 > 5000 mg/m3, TClo inserted. Added
930	Gallium	7440-55-3	10	30	50	250	
931	Gallium oxide	12024-21-4	10	30	50	500	
932	Gallium trichloride	13450-90-3	6	20	32	100	
933	Gallium trifluoride	7783-51-9	5	15	25	125	
934	Gasoline	8006-61-9	750	1 500	1 500	4 000	
935	Germane; (Germanium tetrahydride)	7782-65-2	0,6	1,5	3	500	Added
936	Germanium oxide	1310-53-8	0,75	2	15	500	
937	Germanous acid	z-0038	2	6	40	200	Added. Germanium compounds, LD50 is minimum of range
938	Glass frit	z-0039	5	15	25	125	
939	Gluteraldehyde	111-30-8	0,2	0,2	20	60	T-2 changed
940	Glycerine (mist); (Glycerol, glycerin)	56-81-5	15	30	50	500	
941	Glyceryl monostearate; (Octadecanoic acid with 1,2,3-propanetriol)	31566-31-1	10	30	50	75	T-3 uses 'ip' data T-3 changed.
942	Glycidaldehyde	765-34-4	0,06	0,2	1,5	75	
943	Glycolic acid	79-14-1	0,75	0,75	0,75	0,75	
944	Glycols, polyethylene, mono(p-nonylphenyl) ether; (Nonoxynol-9)	26027-38-3	0,025	0,075	0,6	60	T-3 uses 'ip' data T-3 changed.
945	Goethite; (Iron hydroxide oxide)	1310-14-1	5	7,5	12,5	250	Added. CASRN = 20344-49-4 in HC&P, no toxicity data. **SAR**
946	Gold	7440-57-5	7,5	25	100	100	T-3 uses 'iv' data T-2, T-3 changed.
947	Graphite; (Carbon, CASRN 7440-44-0)	7782-42-5	2	6	10	500	
948	Guanidine, N-methyl-N'-nitro-N-nitroso-	70-25-7	0,125	0,35	2,5	40	T-2 uses 'ip' data T-0, T-1, T-2 changed.
949	Hafnium	7440-58-6	0,5	1,5	2,5	50	
950	Hafnium oxide	12055-23-1	0,6	1,5	3	60	T-3 changed.
951	Halon 1211; (Bromochlorodifluoromethane)	353-59-3	75	250	1 500	35 000	
952	Halon 1301; (1,1,2-Trifluoro-1-bromo-2-chloroethane)	354-06-3	400	1 250	7 500	40 000	
953	Hansa yellow	13515-40-7	10	30	50	250	HSDB has MW = 339.86, but MF ex TSCA

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Table 4: Recommended TEELs Rev. 19 (mg/m^3)

No.	Chemical Name	CASRN	Rev.19 Recommended TEELs (mg/m3)				Comments (and changes from TEELs Rev 18)
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
954	Helium	7440-59-7	10 000	35 000	60 000	75 000	
955	Hematoxylin	517-28-2	10	30	50	250	
956	HeptaCDD, 1,2,3,4,6,7,8-	35822-46-9	0,2	0,6	2,5	2,5	
957	HeptaCDF, 1,2,3,4,6,7,8-	67562-39-4	0,06	0,15	1,25	6	
958	HeptaCDF, 1,2,3,4,7,8,9-	55673-89-7	0,075	0,25	1,5	7,5	
959	Heptachlor	76-44-8	0,15	0,15	0,25	35	
960	Heptachlor epoxide; (Epoxyheptachlor)	1024-57-3	0,15	0,15	0,25	6	
961	Heptadecane	629-78-7	150	500	3 500	15 000	T-3 uses 'iv' data Added
962	Heptafluorotetrahydro-5-[nonafluorobutyl]-furan, 2,2,3,3,4,4,5-; (Fluorinert FC-75)	335-36-4	3,5	10	15	75	
963	Heptane	142-82-5	1 500	1 500	1 500	3 000	
964	Heptanol, 1-; (Heptyl alcohol)	111-70-6	3,5	10	500	500	TClo data inserted. Added
965	Hexacarbonylchromium; (Chromium hexacarbonyl)	13007-92-6	0,05	0,1	1,25	1,25	Added
966	HexaCDD, 1,2,3,4,7,8-	39227-28-6	0,0004	0,00125	0,0075	0,4	
967	HexaCDD, 1,2,3,7,8,9-	19408-74-3	0,005	0,015	0,1	0,5	
968	HexaCDF, 1,2,3,7,8,9-	72918-21-9	0,04	0,125	0,75	4	
969	Hexachlorobenzene	118-74-1	0,002	0,006	1	200	T-2 changed.
970	**Hexachlorobutadiene**	**87-68-3**	0,2	**30**	**100**	**300**	**ERPG-1, -2, -3**
971	Hexachlorocyclohexane, alpha-; (alpha-Benzene hexachloride)	319-84-6	0,5	1,5	25	500	T-1, T-2 changed
972	Hexachlorocylopentadiene	77-47-4	0,1	0,2	0,2	0,2	T-1, T-2, T-3 changed
973	Hexachlorodibenzofuran, 1,2,3,4,7,8-	70648-26-9	0,0025	0,0075	0,06	0,3	
974	Hexachlorodibenzofuran, 1,2,3,6,7,8-	57117-44-9	0,00075	0,0025	0,015	0,075	
975	Hexachlorodibenzofuran, 2,3,4,6,7,8-	60851-34-5	0,0005	0,0015	0,01	0,05	
976	Hexachlorodibenzo-p-dioxin, 1,2,3,4,7,8-	57653-85-7	0,005	0,015	0,1	0,5	
977	Hexachloroethane	67-72-1	10	30	50	3 000	
978	Hexachloronaphthalene	1335-87-1	0,2	0,2	0,2	2	
979	Hexachlorophene	70-30-4	10	10	30	200	
980	Hexachloropropene	1888-71-7	1,5	4	30	150	
981	Hexadecane	544-76-3	150	500	500	500	T-3 uses 'iv' data T-0 changed.
982	Hexadecanoic acid; (Palmitic acid)	57-10-3	0,3	0,75	6	50	T-3 uses 'iv' data T-3 changed.
983	Hexadecanol, 1-	36653-82-4	2,5	7,5	60	300	
984	Hexadecene, 1-	629-73-2	4	12,5	75	400	LD and LC greater than values given. Added
985	**Hexafluoroacetone**	**684-16-2**	0,6	1	**7**	**340**	**ERPG-2, -3**
986	**Hexafluoropropylene; (Hexafluoropropene)**	**116-15-4**	61	**61**	**305**	**3 050**	**ERPG-1, -2, -3**
987	Hexamethylcyclotrisiloxane	541-05-9	10	30	200	500	Based on other silanes
988	Hexamethyldisilazane	999-97-3	0,1	0,3	2	350	T-2 uses 'ip' data T-0, T-1, T-2 changed.
989	Hexamethyldisiloxane	107-46-0	250	750	2 000	2 000	T-3 uses 'ip' data Added
990	Hexamethylene diisocyanate polymer	28182-81-2	7,5	25	200	500	

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Table 4: Recommended TEELs Rev. 19 (mg/m^3)

No.	Chemical Name	CASRN	Rev.19 Recommended TEELs (mg/m3)				Comments (and changes from TEELs Rev 18)
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
991	Hexamethylene diisocyanate; (1,6-Diisocyanatohexane)	822-06-0	0,035	0,1	1,38	20	
992	Hexamethylenetetraamine hydrochloride	58713-21-6	10	30	50	250	
993	Hexamethylenetetraamine; (Methenamine)	100-97-0	10	30	50	500	T-3 uses 'iv' data
994	Hexamethylphosphoramide	680-31-9	0,3	0,75	6	1 000	
995	Hexanal	66-25-1	50	150	750	750	TDlo data inserted. Added
996	Hexane	110-54-3	150	500	750	4 000	
997	Hexanenitrile	628-73-9	2	6	40	200	Added
998	Hexanoic acid	142-62-1	5	15	100	500	
999	Hexanol, n-; (n-Hexyl alcohol)	111-27-3	3	7,5	60	300	
1000	Hexanone, 2-; (Methyl n-butyl ketone)	591-78-6	20	40	100	6 000	
1001	Hexanone, 3-; (Ethyl propyl ketone)	589-38-8	15	50	350	1 500	Added
1002	Hexene, 1-	592-41-6	100	100	100	100	
1003	Hexylene glycol	107-41-5	50	125	125	1 500	T-1 changed
1004	HMX ; (Cyclotetramethylene tetranitramine)	2691-41-0	0,06	0,15	1,25	500	Added
1005	Holmium trioxide	12055-62-8	10	30	50	250	Added. Listed in TSCA, no toxicity data
1006	**Hydrazine**	**302-01-2**	0,6	**0,7**	**6,6**	**40**	**ERPG-1, -2, -3**
1007	Hydrazine hydrate, aequeous solutions	10217-52-4	0,02	0,04	0,04	0,04	
1008	Hydrazine hydrochloride; (Hydrazine monochloride)	2644-70-4	0,0075	0,025	0,04	50	
1009	Hydrazine monohydrate	7803-57-8	0,003	0,0075	0,06	50	.
1010	Hydrazine nitrate; (Hydrazinium nitrate)	13464-97-6	1	3	5	25	T-3 changed
1011	Hydrazine sulfate	10034-93-2	0,6	2	15	250	.
1012	Hydriodic acid 4 (as iodine)	10034-85-2	0,15	0,5	2,5	25	
1013	Hydrobromic acid; (Hydrogen bromide)	10035-10-6	10	10	10	100	
1014	Hydrogen	1333-74-0	3 500	3 500	3 500	3 500	Asphixiant, all Ts changed to LEL=4.1%
1015	**Hydrogen chloride; (Hydrochloric acid)**	**7647-01-0**	0,75	**4,5**	**30**	**224**	**ERPG-1, -2, -3**
1016	**Hydrogen cyanide; (Hydrocyanic acid)**	**74-90-8**	5	5	**11,1**	**27,8**	**ERPG-2, -3**
1017	**Hydrogen fluoride; (Hydrofluoric acid)**	**7664-39-3**	1,5	**1,5**	**16,4**	**41**	**ERPG-1, -2, -3**
1018	**Hydrogen peroxide**	**7722-84-1**	1,25	**14**	**71**	**142**	**ERPG-1, -2, -3**
1019	**Hydrogen selenide**	**7783-07-5**	0,15	0,15	**0,66**	**6,6**	**ERPG-2, -3**
1020	**Hydrogen sulfide**	**7783-06-4**	12,5	20	**40**	**125**	**ERPG-1, -2, -3; ignored ERPG-1**
1021	Hydroquinone	123-31-9	2	3	20	50	
1022	Hydrotreated (mild & severe) heavy paraffinic distillates	64742-54-7	60	150	500	500	
1023	Hydroxy-4-methyl-2-pentanone, 4-; (Diacetone alcohol)	123-42-2	200	200	200	7 500	
1024	Hydroxyethylenediaminetriacetic acid, n-	150-39-0	1,25	4	30	150	T-3 uses 'ip' data All Ts changed.
1025	Hydroxyethylidine biphosphonic acid, 1-; (1-Hydroxyethylidene-1,1-diphosphonic acid)	2809-21-4	10	30	50	500	
1026	Hydroxylamine	7803-49-8	0,25	0,75	5	25	T-3 uses 'ip' data All Ts changed.
1027	Hydroxylamine chloride; (Hydroxylamine hydrochloride)	5470-11-1	15	50	60	60	

Table 4: Recommended TEELs Rev. 19 (mg/m^3)

No.	Chemical Name	CASRN	Rev.19 Recommended TEELs (mg/m3)				Comments (and changes from TEELs Rev 18)
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
1028	Hydroxylamine nitrate	13465-08-2	7,5	15	26	150	T-3 changed.
1029	Hydroxylamine sulfate; (Oxammonium sulfate)	10039-54-0	4	10	75	400	
1030	Hypophosphorus acid; (Phosphinic acid)	6303-21-5	10	30	50	250	
1031	Iminodiacetic acid	142-73-4	1	3	20	100	T-3 uses 'ip' data All Ts changed.
1032	Indan	496-11-7	40	125	500	500	
1033	Indene	95-13-6	40	40	200	1 500	
1034	Indeno(1,2,3-cd)pyrene	193-39-5	0,15	0,5	3,5	15	Added
1035	Indigo carmine; (FD&C blue No 2)	860-22-0	20	60	75	75	T-3 uses 'iv' data T-2, T-3 changed.
1036	Indium oxide (vapor)	1312-43-3	0,1	0,3	0,5	2,5	Added (used fake CASRN)
1037	Indium trichloride	10025-82-8	0,2	0,6	1	1	T-3 uses 'ip' data All Ts changed.
1038	Indium(III) oxide	1312-43-2	0,125	0,35	60	500	Added
1039	Indole-3-carboxaldehyde, iH-; (3-Formylindole)	487-89-8	5	15	100	500	T-3 uses 'ip' data Added
1040	Iodic acid (as iodine)	7782-68-5	0,125	0,125	0,125	2,5	All Ts changed
1041	**Iodine**	**7553-56-2**	1	**1**	**5,2**	**52**	**ERPG-1, -2, -3**
1042	Iodine solutions; (Todine solutions)	25655-41-8	12,5	25	25	125	MSDS mixture components used
1043	Iron	7439-89-6	10	30	50	500	
1044	Iron carbide	12011-67-5	5	15	25	125	Added. No data, so treated as insoluble Fe fume
1045	Iron hydroxide oxide	20344-49-4	15	50	75	350	Name corrected (TSCA and HC&P) All Ts changed.
1046	Iron oxide; (Ferric oxide)	1309-37-1	10	15	25	500	
1047	Iron pentacarbonyl	13463-40-6	0,75	1,5	4	7,5	
1048	Iron(II) chloride tetrahydrate	13478-10-9	3,5	3,5	7,5	40	T-3 uses 'ip' data T-2, T-3 changed.
1049	Isoamyl acetate; (Isopentyl acetate)	123-92-2	500	500	1 000	5 000	
1050	Isoamyl alcohol (primary)	123-51-3	350	400	400	1 500	
1051	Isoamyl alcohol (secondary)	584-02-1	350	400	400	1 500	
1052	Isoamylnitrite; (Isopentyl nitrite)	110-46-3	12,5	40	300	1 500	
1053	Isobenzan	297-78-9	2	2	2	2	Added
1054	Isobutanol-2-amine	124-68-5	0,03	0,075	0,6	500	
1055	Isobutyl acetate	110-19-0	600	600	1 250	6 000	
1056	Isobutyl alcohol	78-83-1	300	400	750	5 000	
1057	Isobutyl isobutyrate	97-85-8	150	500	500	500	
1058	Isobutylamine	78-81-9	15	15	20	100	
1059	Isobutyraldehyde	78-84-2	300	750	5 000	5 000	
1060	Isobutyric acid	79-31-2	1	3,5	25	125	
1061	**Isobutyronitrile**	**78-82-0**	20	**25**	**125**	**500**	**ERPG-1, -2, -3**
1062	Isocyanate-bearing waste (as CNs N.O.S.)	z-0040	5	5	5	25	
1063	**Isocyanatoethyl methacrylate, 2-**	**30674-80-7**	0,125	0,35	**0,634**	**6,34**	**ERPG-2, -3**
1064	Isocyanic acid-3,4-dichlorophenyl ester; (3,4-Dichlorophenyl isocyanate)	102-36-3	2,5	7,5	14	500	SAX and RTECS tox data conflict. Added

Note: Bolded chemicals and values are official 2002 ERPGs

Table 4: Recommended TEELs Rev. 19 (mg/m^3)

No.	Chemical Name	CASRN	Rev.19 Recommended TEELs (mg/m3)				Comments (and changes from TEELs Rev 18)
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
1065	Isodrin	465-73-6	1,25	4	7	7	Added
1066	Isooctane; (Trimethyl-2-oxepanone)	64047-30-9	30	75	500	500	
1067	Isopentane; (Ethyldimethylmethane; 2-Methyl-butane)	78-78-4	1 500	1 500	1 500	60 000	
1068	Isophorone	78-59-1	25	25	25	1 000	
1069	Isophorone diisocyanate	4098-71-9	0,04	0,15	1,25	50	RTECS tox data used. Added
1070	Isoprene	78-79-5	125	400	600	75 000	
1071	Isopropyl acetate	108-21-4	1 000	1 250	1 250	7 500	
1072	Isopropyl alcohol	67-63-0	1 000	1 000	5 000	5 000	T-2 changed.
1073	Isopropyl chloride; (2-Chloropropane)	75-29-6	4 000	12 500	50 000	50 000	
1074	Isopropyl chloroformate; (Isopropyl chlorocarbonate)	108-23-6	5	15	100	125	T-2 changed.
1075	Isopropyl methanefluorophosphonate; (Sarin; GB)	107-44-8	0,0025	0,0075	0,05	0,6	
1076	Isopropylamine; (2-Propanamine)	75-31-0	12,5	25	60	1 500	
1077	Isopropylmethylpyrazolyl dimethylcarbamate; (Isolan)	119-38-0	1	3,5	5,6	5,6	Added
1078	Jet fuels (JP-5 and JP-8) (as Kerosene)	z-0041	100	100	400	400	T-2 uses 'iv' data T-2 changed.
1079	Kepone; (Chlordecone)	143-50-0	0,001	0,003	0,5	40	T-1, T-2 changed
1080	Kerosene	8008-20-6	100	100	400	400	T-2 uses 'iv' data T-1 changed.
1081	Ketene; (Carbomethene, Ethenone)	463-51-4	0,75	2,5	2,5	7,5	
1082	Lactic acid	50-21-5	15	40	300	500	
1083	Lactonitrile	78-97-7	3,5	10	18	150	HSDB pchem data used. Added
1084	Lanthanum	7439-91-0	10	30	50	250	
1085	Lanthanum alizarin (as La)	z-0042	10	30	50	250	
1086	Lanthanum carbonate	z-0043	10	30	50	250	
1087	Lanthanum fluoride	13709-38-1	7,5	7,5	37,5	250	Added
1088	Lanthanum hydroxide	14507-19-8	0,2	0,75	2	2,5	Added. TSCA CASRN. No toxicity data found. **SAR**
1089	Lanthanum nitrate	10099-59-9	0,4	1,25	7,5	500	
1090	Lanthanum oxide	1312-81-8	40	125	500	500	
1091	Lanthanum phosphate	14913-14-5	0,3	0,75	3	3	Added. No toxicity data found. **SAR**
1092	Lead	7439-92-1	0,05	0,15	0,25	100	
1093	Lead acetate basic; (Lead subacetate)	1335-32-6	0,06	0,2	30	125	T-2, T-3 changed.
1094	Lead acetate; (Lead diacetate)	301-04-2	0,075	0,2	40	150	T-0, T-2, T-3 changed.
1095	Lead acid arsenate; (Dibasic lead arsenate)	7784-40-9	0,075	0,25	40	150	T-2, T-3 changed.
1096	Lead arsenate	3687-31-8	0,0125	0,0125	0,0125	30	T-3 changed.
1097	Lead bromide	10031-22-8	0,075	0,25	0,4	150	T-3 changed.
1098	Lead carbonate	598-63-0	0,06	0,2	3	500	Added
1099	Lead chloride	7758-95-4	0,06	0,2	3,5	125	T-2, T-3 changed.
1100	Lead chromate	7758-97-6	0,075	0,2	0,35	75	T-2, T-3 changed.
1101	Lead dioxide	1309-60-0	0,06	0,18	0,3	100	T-1, T-2 changed.

Table 4: Recommended TEELs Rev. 19 (mg/m^3)

No.	Chemical Name	CASRN	Rev.19 Recommended TEELs (mg/m3)				Comments (and changes from TEELs Rev 18)
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
1102	Lead fluoborate	13814-96-5	0,075	0,25	0,4	150	Only stable in aequeous solution. T-3 changed.
1103	Lead fluoride	7783-46-2	0,06	0,15	3	100	T-2 changed.
1104	Lead hydroxide	19783-14-3	0,06	0,15	0,3	1,5	TSCA & H&N listed CASRN. Added
1105	Lead iodide	10101-63-0	0,1	0,35	0,5	200	T-3 changed.
1106	Lead nitrate	10099-74-8	0,075	0,225	0,375	150	T-2 uses 'iv' data T-1, T-2, T-3 changed.
1107	Lead nitrite	z-0044	0,075	0,2	0,35	1,5	Added
1108	Lead oxalate	814-93-7	0,06	0,2	0,35	1,5	TSCA & H&N listed CASRN. Added
1109	Lead oxide; (Lead monoxide)	1317-36-8	0,05	0,05	0,05	100	T-0, T-1, T-2 changed
1110	Lead phosphate	7446-27-7	0,06	0,2	30	150	T-2 changed.
1111	Lead sulfate	7446-14-2	0,075	0,225	0,375	150	All Ts changed.
1112	Lead sulfide	1314-87-0	0,06	0,15	30	500	T-3 uses 'ip' data T-0, T-2 changed.
1113	Lead tetroxide	1314-41-6	0,05	0,15	0,25	100	
1114	Lead(II) arsenite	10031-13-7	0,025	0,075	0,125	12,5	T-3 changed.
1115	Lead,bis(acetato)trihydroxytri- (as Pb)	6080-56-4	0,075	0,25	40	150	T-2, T-3 changed.
1116	Leptophos	21609-90-5	6	15	30	30	Added
1117	Lewisite; (Chlorovinylarsine dichloride)	541-25-3	1,25	1,25	4,7	4,7	Added
1118	Lignosulfonate (aqueous)	8062-15-5	10	30	500	500	T-2 changed.
1119	Limonene, d-	5989-27-5	150	500	750	2 000	WEEL CASRN = 138-86-3. HSDB: (L)-Limonene for CASRN = 5989-54-8. H&N has both.
1120	Lindane; (gamma-benzenehexachloride)	58-89-9	0,5	1,5	50	50	
1121	Linseed oil	8001-26-1	0,5	1,5	10	60	T-2 uses 'sk' data All Ts changed.
1122	Liquified petroleum gas; (L.P.G.)	68476-85-7	1 500	3 500	3 500	3 500	
1123	Lithium	7439-93-2	10	30	50	400	T-3 uses 'ip' data T-3 changed.
1124	Lithium aluminum oxide; (Lithium aluminate)	11089-89-7	10	30	50	250	
1125	Lithium aluminum silicate; (Spodumene (mineral))	1302-66-5	2	6	10	50	
1126	Lithium azide	19597-69-4	10	10	10	10	
1127	Lithium bromide	7550-35-8	1	7	15	500	
1128	Lithium carbonate	554-13-2	0,4	1,25	7,5	200	
1129	Lithium chromate	14307-35-8	0,06	0,06	0,1	20	T-3 changed.
1130	Lithium deuteride	z-0045	0,025	0,025	0,1	0,5	
1131	Lithium fluoride	7789-24-4	3,5	10	15	350	T-3 changed.
1132	**Lithium hydride**	**7580-67-8**	0,025	**0,025**	**0,1**	**0,5**	**ERPG-1, -2, -3**
1133	Lithium hydroxide	1310-65-2	0,05	0,15	1	100	
1134	Lithium metaborate, anhydrous	1303-94-2	10	30	50	250	
1135	Lithium molybdate	z-0046	7,5	25	40	200	
1136	Lithium niobate oxide; (Lithium niobate)	12031-63-9	5	15	25	500	T-0, T-1, T-2 changed.
1137	Lithium nitrate	7790-69-4	10	10	10	10	HC&P

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Table 4: Recommended TEELs Rev. 19 (mg/m^3)

No.	Chemical Name	CASRN	Rev.19 Recommended TEELs (mg/m3)				Comments (and changes from TEELs Rev 18)
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
1138	Lithium nitride	26134-62-3	10	10	10	10	
1139	Lithium nitrite	z-0047	0,025	0,06	0,4	40	Added. No listing or toxicity data found. **SAR**
1140	Lithium sulfate	10377-48-7	0,15	0,5	3,5	500	
1141	Lithium tetraborate	12007-60-2	10	30	50	250	MW=169.12 without 5H2O
1142	Lutetium oxide	12032-20-1	10	30	50	250	
1143	Magnesium	7439-95-4	10	30	50	250	
1144	Magnesium carbonate; (Magnesite)	546-93-0	15	30	50	250	
1145	Magnesium chloride	7786-30-3	10	30	50	500	
1146	Magnesium fluoride	7783-40-6	4	12,5	20	400	T-3 changed.
1147	Magnesium formate	557-39-1	10	10	10	10	
1148	Magnesium hydroxide	1309-42-8	75	200	500	500	
1149	Magnesium nitrate; (Magnesium(II) nitrate (1:2))	10377-60-3	10	30	50	250	T-3 changed
1150	Magnesium oxide	1309-48-4	10	30	50	500	
1151	Magnesium silicate (hydrate)	1343-90-4	10	30	50	250	T-3 changed
1152	Malathion	121-75-5	15	30	250	250	T-2 changed.
1153	Maleic acid	110-16-7	10	10	50	300	
1154	Maleic anhydride	108-31-6	1	3	5	10	
1155	Maleic hydrazide; (3,6-Pyridazinedione,1,2-dihydro-)	123-33-1	0,6	2	12,5	500	
1156	Malonic acid; (Carboxyacetic acid)	141-82-2	10	15	50	500	
1157	Manganese	7439-96-5	0,2	3	5	500	
1158	Manganese carbonate	598-62-9	0,4	6	10	500	Lisated in HSDB, TSCA, H&N. Added
1159	Manganese dioxide (as Mn)	1313-13-9	0,3	4	75	500	T-2 changed.
1160	Manganese hydroxide	18933-05-6	0,3	5	7,5	500	
1161	Manganese nitrite	z-0048	0,5	7,5	12,5	500	Added
1162	Manganese oxalate	z-0049	0,5	7,5	12,5	500	Added
1163	Manganese oxide; (Manganese tetroxide)	1317-35-7	0,25	0,75	60	500	T-2 changed.
1164	Manganese phosphate	10124-54-6	0,4	6	10	500	CASRN ex H&N, x = 5 for MW given. Added
1165	Manganese tricarbonyl methylcyclopentadienyl	12108-13-3	0,6	0,6	0,6	7,5	
1166	Manganese(II) chloride (1:2); (Manganous chloride)	7773-01-5	0,4	6	10	100	
1167	Manganese(II) nitrate	10377-66-9	0,6	10	15	500	
1168	Manganese(VII) oxide	12057-92-0	0,4	6	10	50	Added
1169	Manganous oxide; (Manganese[II] oxide)	1344-43-0	0,25	0,75	6	150	
1170	Manganous sulfate (as Mn)	7785-87-7	0,5	7,5	12,5	500	
1171	Manganous sulfide; (Manganese(II) sulfide)	18820-29-6	0,3	0,75	7,5	500	
1172	Mastic (resin)	61789-92-2	4	12,5	100	500	T-3 uses 'sk' data T-0, T-1, T-2 changed.
1173	Melamine	108-78-1	0,004	0,0125	0,075	75	
1174	Mephosfolan	950-10-7	1,5	5	9	9	Added

Table 4: Recommended TEELs Rev. 19 (mg/m^3)

No.	Chemical Name	CASRN	Rev.19 Recommended TEELs (mg/m3)				Comments (and changes from TEELs Rev 18)
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
1175	Mercaptobenzothiazole, 2-; (2-Benzothiazolthiol))	149-30-4	2	6	40	500	T-2 uses 'ip' data T-0, T-1, T-2 changed.
1176	Mercuric acetate	1600-27-7	0,01	0,03	0,1	2	T-3 changed.
1177	Mercuric cyanide	592-04-1	0,025	0,1	10	10	T-1, T-2 changed.
1178	Mercuric iodide; (Mercury(II) iodide)	7774-29-0	0,05	0,15	0,2	20	T-3 changed.
1179	Mercuric nitrate monohydrate	7782-86-7	0,035	0,125	0,125	12,5	In H&N T-1, T-3 changed.
1180	Mercuric sulfate; (Mercury (II) sulfate)	7783-35-9	0,035	0,15	0,15	15	T-1, T-3 changed.
1181	Mercuric thiocyanate; (Mercuric sulfocyanate)	592-85-8	0,04	0,1	0,15	15	T-3 changed.
1182	Mercurol; (Mercury nucleate)	12002-19-6	0,025	0,075	0,1	10	
1183	Mercurous chloride (see also MCY300)	7546-30-7	0,03	0,075	0,1	10	
1184	Mercurous nitrate; (Mercury[1] nitrate[1:1])	10415-75-5	0,03	0,125	0,125	12,5	T-1, T-3 changed.
1185	Mercurous oxide	15829-53-5	0,025	0,1	0,1	10	T-1 changed
1186	Mercury hydroxide	z-0050	0,03	0,075	0,1	10	Added
1187	Mercury nitrate; (Mercury[II] nitrate [1:2])	10045-94-0	0,04	0,15	0,15	15	T-1, T-3 changed.
1188	Mercury nitrite	z-0051	0,035	0,1	0,15	15	Added
1189	**Mercury vapor**	**7439-97-6**	0,025	0,1	**2,05**	**4,10**	**ERPG-2, -3 for Hg vapor,** T-1 changed
1190	Mercury(II) chloride (as Hg)	7487-94-7	0,035	0,125	12,5	12,5	T-1, T-2, T-3 changed.
1191	Mercury(II) oxide; (Mercuric oxide)	21908-53-2	0,025	0,1	1	10	T-1, T-2 changed.
1192	Mesitylene; (1,3,5-Trimethyl benzene)	108-67-8	125	125	125	2 500	
1193	Methacrolein diacetate; (Acetic acid-2-methyl-propene-1,1-diol diester)	10476-95-6	7,5	25	44	44	Name changed, synonym added. SAX and RTECS tox data differ. Added
1194	Methacrylaldehyde	78-85-3	0,35	1	7,5	40	Added
1195	Methacrylic acid	79-41-4	60	60	150	400	
1196	Methacrylic anhydride	760-93-0	0,75	2,5	4,5	150	Added
1197	Methacrylonitrile; (Methylacrylonitrile)	126-98-7	2,5	2,5	12,5	100	
1198	Methacryloyl chloride	920-46-7	0,125	0,35	0,6	25	Added
1199	Methamidophos	10265-92-6	3,5	10	60	60	Added
1200	Methane	74-82-8	3 000	10 000	15 000	30 000	T-3 limited to LEL=5%
1201	Methanesulfonic acid	75-75-2	4	12,5	75	400	
1202	Methanesulfonic acid, ethyl ester; (Ethyl methanesulfonate)	62-50-0	0,5	1,5	10	150	T-2 uses 'ip' data T-3 uses 'ip' data All Ts changed.
1203	Methanesulfonyl fluoride; (Methanesulfonyl fluoride)	558-25-8	12,5	14	14	14	Added
1204	Methidathion; (Dithiophosphate)	950-37-8	1	3	20	400	Added
1205	Methiocarb; (Mercaptodimethur)	2032-65-7	3	7,5	15	15	Added
1206	Methomyl	16752-77-5	2,5	7,5	10	200	Added
1207	Methoxychlor	72-43-5	15	30	50	500	
1208	Methoxyethoxy)-ethanol, 2-(2-; (Diethylene glycol monomethyl ether)	111-77-3	1,5	1,5	1,5	1,5	
1209	Methoxyethylamine	109-85-3	1,5	5	35	150	T-3 uses 'ip' data All Ts changed.
1210	Methoxyethylmercuric acetate	151-38-2	0,015	0,05	3	3	Added
1211	Methoxypropylamine, 3-; (3-MPA)	5332-73-0	15	50	50	250	

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Table 4: Recommended TEELs Rev. 19 (mg/m^3)

No.	Chemical Name	CASRN	Rev.19 Recommended TEELs (mg/m3)				Comments (and changes from TEELs Rev 18)
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
1212	Methoxytrimethylsilane	1825-61-2	0,2	2	7,5	20	Added. No toxicity data found. **SAR**
1213	Methyl 2-pyrrolidinone, 1-; (n-Methylpyrrolidone)	872-50-4	40	75	200	1 500	
1214	Methyl acetylene	74-99-7	1 500	2 500	2 500	2 500	
1215	Methyl acetylene-propadiene mixture; (Mapp Gas)	59355-75-8	1 500	2 000	6 000	6 000	
1216	Methyl acrylate	96-33-3	6	6	25	500	
1217	**Methyl alcohol; (Methanol)**	**67-56-1**	250	**262**	**1 308**	**6 540**	**ERPG-1, -2, -3**
1218	**Methyl bromide; (Bromomethane)**	**74-83-9**	4	75	**195**	**778**	**ERPG -2, -3, T-1 changed**
1219	**Methyl chloride**	**74-87-3**	200	200	**828**	**2 070**	**ERPG-2, -3**
1220	Methyl chloroformate; (Methyl chlorocarbonate)	79-22-1	0,075	0,25	1,8	15	T-0, T-1, T-2 changed
1221	Methyl chlorosilane; (Chloromethylsilane)	993-00-0	0,6	2	12,5	60	Data ex HC&P Toxicity assumed. Added
1222	Methyl cyclohexylfluorophosphonate; (GF Agent)	329-99-7	0,00035	0,001	0,0075	0,04	
1223	Methyl demeton methyl; (Phosphorothioic acid, O,O-dimethyl-s-[2-methylthio] ethyl ester)	2587-90-8	4	12,5	20	20	Added
1224	Methyl difluorophosphite; (Methylphosphonic difluoride)	676-99-3	0,75	2,5	20	100	
1225	Methyl ether; (Dimethyl ether)	115-10-6	1 500	5 000	75 000	1,25E+05	T-2 changed.
1226	Methyl ethyl ketone peroxide	1338-23-4	1,5	1,5	150	150	T-0, T-1, T-2 changed.
1227	Methyl fluoride; (Fluoromethane)	593-53-3	4	12,5	20	400	T-3 changed.
1228	Methyl fluoroacetate	453-18-9	0,015	0,05	0,35	5	Added
1229	Methyl fluorosulfate	421-20-5	0,01	0,035	0,25	1,25	Added
1230	Methyl formate; (Formic acid, methyl ester)	107-31-3	250	350	1 250	10 000	
1231	**Methyl iodide**	**74-88-4**	30	**150**	**300**	**750**	**ERPG-1, -2, -3**
1232	Methyl isobutyl ketone; (Hexone)	108-10-1	300	300	1 000	2 000	
1233	**Methyl isocyanate**	**624-83-9**	0,04	**0,058**	**1,17**	**11,7**	**ERPG-1, -2, -3**
1234	Methyl isopropyl ketone; (3-Methyl-2-butanone)	563-80-4	600	600	600	2 000	Added
1235	Methyl isothiocyanate; (Isothiocyanatomethane)	556-61-6	1,5	4	33	500	
1236	**Methyl mercaptan**	**74-93-1**	1	**20**	**49**	**196**	**ERPG-1, -2, -3; ignored ERPG-1**
1237	Methyl mercury	22967-92-6	0,01	0,03	0,04	0,2	
1238	Methyl methacrylate	80-62-6	400	400	400	4 000	
1239	Methyl n-amyl ketone	110-43-0	400	400	600	3 500	
1240	Methyl parathion	298-00-0	0,2	0,34	0,35	15	T-2 changed.
1241	Methyl pentane, 2- (Isohexane)	107-83-5	1 500	1 500	1 500	7 500	
1242	Methyl phencapton	3735-23-7	2	6	11	100	Added
1243	Methyl phosphonic dichloride	676-97-1	0,06	0,2	1,4	15	
1244	Methyl phosphonothioic dichloride	676-98-2	1,5	4	30	150	LC50 estimated from similar compounds
1245	Methyl pyridine, 3-: (3-Picoline)	108-99-6	7,5	15	35	6 000	
1246	Methyl salicylate	119-36-8	0,75	2,5	15	75	
1247	Methyl thiocyanate	556-64-9	15	50	85	85	
1248	Methyl trioctyl ammonium chloride	5137-55-3	0,75	2,5	20	100	

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Table 4: Recommended TEELs Rev. 19 (mg/m^3)

No.	Chemical Name	CASRN	Rev.19 Recommended TEELs (mg/m3)				Comments (and changes from TEELs Rev 18)
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
1249	Methyl vinyl carbinol; (3-Buten-2-ol)	598-32-3	0,6	2	15	75	Added
1250	Methyl vinyl ketone; (3-Buten-2-one)	78-94-4	0,6	0,6	0,6	0,75	T-0, T-1 changed
1251	Methyl-1-butene, 2-	563-46-2	40 000	40 000	40 000	40 000	Asphixiant, all Ts changed to LEL=1.5%
1252	Methyl-1H-benzotriazole	29385-43-1	10	30	50	300	
1253	Methyl-1-phenyl-2-pyrazolin-5-one, 3-	89-25-8	15	40	300	500	
1254	Methyl-1-propene-1-one, 2-; (Dimethylketene)	598-26-5	0,075	0,25	2	10	Toxicity based on ketene
1255	Methyl-2-chloroacrylate	80-63-7	0,25	0,75	5	35	Added
1256	Methyl-2-hexanone, 5-: (Methyl isoamyl ketone)	110-12-3	400	600	7 500	7 500	T-2 changed.
1257	Methyl-3-pentene-2-one, 4-; (Mesityl oxide)	141-79-7	100	100	100	5 000	
1258	Methyl-4-pentene-2-one, 4-	3744-02-3	100	100	100	5 000	Based on mesityl oxide (CASRN 141-79-7)
1259	Methyl-5-nitroaniline, 2-; (5-Nitro-o-toluidine; Benzenamine, 2-methyl-5-nitro-)	99-55-8	7,5	20	150	250	
1260	Methyl-5-vinyl-pyridine, 2-	140-76-1	0,35	1	1,9	40	Added
1261	Methylal; (Dimethoxymethane)	109-87-5	3 000	6 000	6 000	6 000	
1262	Methylaniline, n-	100-61-8	6	6	10	400	
1263	Methylaziridine, 1-	1072-44-2	4	4	4	200	Added. RTECS LClo > 2000 mg/m3, listed in H&N and HC&P, no toxicity data **SAR**
1264	Methylbutanamide, 3-; (Isovaleramide)	541-46-8	6	20	125	500	T-3 uses 'iv' data T-0, T-1, T-2 changed.
1265	Methylcellulose	9004-67-5	10	30	50	500	T-3 uses 'ip' data
1266	Methylchlorodisilane; (Chloromethyldisilane)	68937-17-7	0,4	1,25	10	50	CASRN in TSCA, no useful data. Toxicity assumed. Added
1267	Methylcholanthrene 3-	56-49-5	0,2	0,6	4	75	T-2 uses 'ip' data T-3 uses 'ip' data All Ts changed.
1268	Methylcyclohexane	108-87-2	2 000	5 000	5 000	5 000	
1269	Methylcyclohexanone	1331-22-2	7,5	25	150	750	
1270	Methylcyclohexanone, 2-; (o-Methylcyclohexanone)	583-60-8	350	350	500	2 500	
1271	Methylene bis(2-chloroaniline), 4,4'-; (MBOCA)	101-14-4	0,1	0,3	5	500	T-2 changed.
1272	Methylene bis(4-isocyanatocyclohexane), 1,1'-	5124-30-1	0,05	0,05	0,1	2	
1273	**Methylene chloride**	**75-09-2**	75	**696**	**2 610**	**13 920**	**ERPG-1, -2, -3**
1274	**Methylene diphenyl diisocyanate (Diphenylmethane diisocyanate; MDI)**	**101-68-8**	0,05	**0,2**	**2**	**25**	**ERPG-1, -2, -3**
1275	Methylenedianiline, 4,4'-	101-77-9	0,075	0,75	4	150	
1276	Methylethyl hydroperoxide, 1-; (Isopropyl hydroperoxide)	3031-75-2	0,6	1,5	12,5	60	Based on Isopropylbenzenehydroperoxide
1277	Methylfuran, 2-	534-22-5	20	60	150	150	Added
1278	Methylheptane, 4-	589-53-7	40	125	200	1 000	Listed in H&N and HC&P, no toxicity data; could not confirm Intertox TLV-TWA. Added
1279	Methyllactic acid, 2-; (Ethyl 2-hydroxyisobutyrate)	80-55-7	15	50	400	500	
1280	Methyllactonitrile 2-	75-86-5	5	5	12,5	20	T-2 changed.
1281	Methylmercuric dicyanamide	502-39-6	0,015	0,04	3	3	Added
1282	Methylnaphthalene, 1-	90-12-0	6	20	500	500	
1283	Methylnaphthalene, 2-	91-57-6	6	20	125	500	
1284	Methylnitrosopiperidine, 3-; (Piperidine, 3-methyl-1-nitroso-)	13603-07-1	0,3	0,75	6	30	Added
1285	Methylphenol, 2-; (o-Cresol)	95-48-7	20	20	110	1 000	T-2 uses 'sk' data T-2 changed.

Note: Bolded chemicals and values are official 2002 ERPGs

Table 4: Recommended TEELs Rev. 19 (mg/m^3)

No.	Chemical Name	CASRN	Rev.19 Recommended TEELs (mg/m3)				Comments (and changes from TEELs Rev 18)
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
1286	Methylphenol, 3-; (m-Cresol)	108-39-4	20	20	110	1 000	T-2 changed
1287	Methylphenol, 4-; (p-Cresol)	106-44-5	20	20	110	1 000	T-2 uses 'sk' data T-2 changed.
1288	Methylphenylthiourea, 2-; (o-Tolyl thiourea)	614-78-8	10	30	50	50	Added
1289	Methylphosphonothioic acid-o-(4-nitrophenyl)-o-phenyl ester	2665-30-7	1,5	5	8	8	Added
1290	Methylphosphonothioic acid-o-ethyl o-(p-(methylthio)phenyl)ester.	2703-13-1	2	6	10	10	Added
1291	Methylpropane, 2-; (Isobutane)	75-28-5	1 500	5 000	7 500	35 000	REL-TWA added, T-0, T-1, T-2 changed
1292	Methyl-propene, 2- (Isobutene)	115-11-7	2 500	7 500	50 000	2,50E+05	
1293	Methylpropylnitrosoamine: (1-Propanamine, N-methyl-N-nitroso-)	924-46-9	0,04	0,125	0,75	15	Added
1294	Methylpyridine, 2-; (2-Picoline)	109-06-8	7,5	7,5	15	1 250	
1295	Methyl-tert-butyl ether	1634-04-4	150	500	750	35 000	T-0, T-1, T-2 changed.
1296	Methyltriacetoxysilane	4253-34-3	7,5	25	150	500	
1297	**Methyltrichlorosilane**	**75-79-6**	1	**3**	**15**	**75**	**ERPG-1, -2, -3** T-0 changed.
1298	Metolcarb; (Methylcarbamic acid m-tolyl ester)	1129-41-5	1	3	5	200	Added
1299	Mevinphos; (Phosdrin(R))	7786-34-7	0,1	0,27	4	4	T-3 changed.
1300	Mexacarbate; (4-[Methylamine]-3,5-xylyl-n-methylcarbamate)	315-18-4	2,5	7,5	14	14	Added
1301	Mica; (Silicates [SCM500])	12001-26-2	3	9	15	75	IDLH not used
1302	Michler's ketone; (4,4'-bis(dimethylamino)-benzophenone)	90-94-8	1	3,5	25	40	
1303	Mineral fibers, fine	z-0052	10	30	50	250	
1304	Mineral oil, white	8042-47-5	10	30	500	500	T-2 changed.
1305	Mineral oil; (Oil mist [mineral])	8012-95-1	5	10	10	500	
1306	Mineral spirits (85% nonane+15% trimethyl benzene=Stoddard solvent)	8052-41-3	500	500	500	500	
1307	Mirex; (Perchloropentacyclodecane)	2385-85-5	0,03	0,075	0,6	100	
1308	Mitomycin C	50-07-7	4	12,5	23	23	
1309	Molybdate orange	12656-85-8	5	15	25	500	
1310	Molybdenum	7439-98-7	10	30	50	500	T-0, T-1, T-2 changed.
1311	Molybdenum dioxide	18868-43-4	12,5	40	60	60	Added
1312	Molybdenum trioxide	1313-27-5	15	15	15	500	T-0, T-1, T-2 changed.
1313	Molybdic acid	z-0053	2,5	2,5	4	500	Added. Mo compounds, treated as soluble
1314	Molybdic acid, disodium salt	7631-95-0	10	30	50	500	
1315	Molybdic acid, hexaammonium salt; (Ammonium heptamolybdate)	12027-67-7	7,5	25	40	500	
1316	Monobutyl phosphite	16456-56-7	6	20	150	500	
1317	Monochloroamine; (Chloramide)	10599-90-3	0,4	1,25	7,5	40	
1318	Monochloropentafluoroethane; (CFC-115)	76-15-3	6 000	15 000	30 000	2,00E+06	
1319	Monocrotophos	6923-22-4	0,05	0,15	0,63	25	bp = 430 C in "Green Book". Added
1320	**Monomethylamine; (Methylamine)**	**74-89-5**	12,5	**12,5**	**125**	**600**	**ERPG-1, -2, -3**
1321	Monomethylhydrazine; (Methyl hydrazine)	60-34-4	0,015	0,35	0,94	35	T-2 changed
1322	Monosodium titanate	60704-88-3	10	30	50	250	MSDS #18858-00 CASRN 12034-36-5 TSCA has MF = Na.H-O5-Ti2

Table 4: Recommended TEELs Rev. 19 (mg/m^3)

No.	Chemical Name	CASRN	Rev.19 Recommended TEELs (mg/m3)				Comments (and changes from TEELs Rev 18)
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
1323	Morpholine	110-91-8	60	100	100	5 000	
1324	Muscimol; (5-Aminomethyl-3-isoxyzole)	2763-96-4	3,5	10	17	20	Added
1325	Myristic acid (tetradecanoic acid), butyl ester	110-36-1	35	100	600	3 500	rat oral LD50 > 8 g/kg Added
1326	Myristic acid, isopropyl ester; (Tetradecanoic acid, isopropyl; Isopropyl myristate),	110-27-0	200	500	500	500	Added
1327	Nabumetone; (Relafen, or 4-[6-methoxy-2-napthyl]-2-butanone)	42924-53-8	10	30	50	500	
1328	Naphtha (coal tar)	8030-30-6	400	400	2 500	4 000	
1329	Naphtha (Rubber solvent)	64742-89-8	400	400	750	4 000	CASRN = 8030-30-6 in SAX & HSDB
1330	Naphtha, hydrotreated heavy	64742-48-9	10	30	50	250	
1331	Naphthalenamine, 1-; (1-Naphthylamine)	134-32-7	4	12,5	75	350	T-2 uses 'ip' data T-0, T-1, T-2 changed.
1332	Naphthalene	91-20-3	50	75	150	1 250	
1333	Naphthaleneacetamide, 1-	86-86-2	6	20	150	500	
1334	Naphthenic acid, lead salt	61790-14-5	0,05	0,15	25	100	For given MW, x = 7 T-2 changed.
1335	Naphthylamine, beta-	91-59-8	2,5	7,5	50	300	
1336	Naphthylthiourea, alpha- (ANTU)	86-88-4	0,3	0,9	10	100	
1337	Naptha (petoleum), heavy catalytic cracked	64741-54-4	6	15	125	500	
1338	Napthoquinone, 1,4-	130-15-4	0,075	0,25	1,5	75	
1339	Neodecanoic acid	26896-20-8	12,5	40	300	500	
1340	Neodymium (III) chloride	10024-93-8	0,6	1,5	12,5	60	T-3 uses 'ip' data All Ts changed.
1341	Neodymium bromide	13536-80-6	10	30	50	250	
1342	Neodymium fluoride	13709-42-7	7,5	25	40	250	Fluoride IDLH and HC&P data. Added
1343	Neodymium hydroxide	16469-17-3	0,75	0,75	2	75	Added. TSCA listed, no toxicity data. **SAR**
1344	Neodymium nitrate	10045-95-1	7,5	25	150	500	
1345	Neodymium nitrite	z-0054	0,04	0,1	0,75	75	Added. No listing and no toxicity data found. **SAR**
1346	Neodymium(III) oxide	1313-97-9	10	30	50	500	Added. Rat oral LD50 > 5 g/kg
1347	Nickel	7440-02-0	1	4,5	10	10	
1348	Nickel carbonyl	13463-39-3	0,02	0,35	0,35	40	T-1, T-2, T-3 changed.
1349	Nickel chloride; (Nickelous chloride)	7718-54-9	0,6	0,6	1	20	T-3 changed.
1350	Nickel cyanide	557-19-7	0,35	1	7,5	15	PEL-TWA ignored T-3 changed.
1351	Nickel formate	3349-06-2	3	3	3	30	T-3 changed.
1352	Nickel oxalate (liquids)	z-0055	0,75	0,75	1,25	25	Added
1353	Nickel oxalate (solids)	z-0056	1,5	1,5	2,5	25	Added
1354	Nickel oxide; (Nickel(II) oxide)	1313-99-1	0,75	0,75	12,5	12,5	T-2, T-3 changed.
1355	Nickel sulfate hexahydrate; (Nickel(II) sulfate hexahydrate)	10101-97-0	1,25	1,25	2	40	T-3 changed.
1356	Nickel sulfate; (Nickel(II) sulfate)	7786-81-4	2,5	2,5	2,5	25	T-3 changed.
1357	Nickel(II) chloride hexahydrate	7791-20-0	1,25	1,25	20	40	T-2, T-3 changed.
1358	Nickel(II) hydroxide; (Nickelous hydroxide)	12054-48-7	0,75	0,75	1,5	15	SAX has CASRNs of nickelous and nickelic reversed. All Ts changed.
1359	Nickel(II) nitrate hexahydrate	13478-00-7	1,5	1,5	50	50	T-2, T-3 changed.

Table 4: Recommended TEELs Rev. 19 (mg/m^3)

No.	Chemical Name	CASRN	Rev.19 Recommended TEELs (mg/m3)				Comments (and changes from TEELs Rev 18)
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
1360	Nickel(II) nitrate; (Nickelous nitrate)	13138-45-9	3	3	3	30	T-3 changed.
1361	Nickel(II) nitrite	17861-62-0	0,3	0,3	0,5	10	Added
1362	Nickel(II) phosphate	10381-36-9	0,6	0,6	1	10	MW = 366.01272. Added
1363	Nickel(III) hydroxide; (Nickelic hydroxide)	12125-56-3	1	1	1,5	15	CASRN = 12125-56-3 is Ni(OH)3; 12054-48-7 is Ni(OH)2; 11113-74-9 is Ni.OH, but databases differ. Ni.OOH (Ni oxy OH) not found All Ts changed.
1364	Nicotine salts; (d1-beta-Nicotine; DL-Nicotine)	22083-74-5	1,25	3,5	3,5	75	T-0, T-1 changed.
1365	Nicotine Sulfate	65-30-5	4	9	9	9	Added
1366	Nicotine; (Pyridine, (S)-3-(1-methyl-2-pyrrolidinyl)-)	54-11-5	0,5	1,5	3,5	5	
1367	Niobium chloride	10026-12-7	6	15	125	500	
1368	Niobium(V) oxide	1313-96-8	10	30	500	500	T-2 changed.
1369	Nitrapyrin; (2-Chloro-6-[trichloromethyl]pyridine)	1929-82-4	15	20	50	400	
1370	Nitrate(s)	14797-55-8	10	30	50	250	
1371	**Nitric acid WFNA; (White Fuming)**	**7697-37-2**	2,5	**3**	**15**	**200**	**ERPG-1, -2, -3**
1372	Nitric oxide	10102-43-9	30	30	30	125	T-0, T-1 changed
1373	Nitrilotriacetic acid; (Aminotriacetic acid)	139-13-9	35	100	500	500	
1374	Nitroaniline, 2-; (o-Nitroaniline)	88-74-4	6	20	125	500	RTECS rat 4 H LC50 > 2529 mg/m3 Added
1375	Nitroaniline, 3-; (m-Nitroaniline)	99-09-2	0,75	2,5	15	200	Added
1376	Nitroaniline, p-	100-01-6	6	9	150	300	T-2 changed.
1377	Nitrobenzene	98-95-3	5	15	100	1 000	
1378	Nitrobiphenyl, 4- ; (p-Nitrobiphenyl)	92-93-3	0,25	0,75	5	500	
1379	Nitrochlorobenzene; (Chloronitrobenzene, m-; 3-Nitrochlorobenzene)	121-73-3	0,06	0,2	1,25	150	
1380	Nitrocyclohexane	1122-60-7	0,3	0,75	1,5	60	Added
1381	Nitrocyclohexene, 1-	2562-37-0	1,5	5	40	200	Added No toxicity data found. **SAR**
1382	Nitrodiphenylamine, 2-	119-75-5	30	100	500	500	Used p-nitrodiphenylamine (CASRN = 836-30-6)
1383	Nitroethane	79-24-3	300	300	600	3 000	
1384	Nitrogen	7727-37-9	75 000	2,50E+05	4,00E+05	6,00E+05	
1385	Nitrogen dioxide	10102-44-0	5	7,5	9,4	35	
1386	Nitrogen mustard hydrochloride	55-86-7	0,75	2,5	4	4	
1387	Nitrogen mustard; (Bis(b-chloroethyl)methylamine)	51-75-2	1,25	4	29	29	
1388	Nitrogen tetroxide	10544-72-6	10	15	15	75	
1389	Nitrogen trifluoride	7783-54-2	30	30	100	3 000	
1390	Nitrogen trioxide; (Dinitrogen trioxide)	10544-73-7	75	150	300	1 500	TSCA, HC&P listed, CASRN 12033-49-7 not found. Added
1391	Nitroglycerin	55-63-0	0,1	0,1	2	75	
1392	Nitromethane	75-52-5	150	150	250	1 500	
1393	Nitrophenol (mixed)	25154-55-6	0,75	2,5	15	75	Used most toxic isomer Ts.
1394	Nitrophenol, 2-; (o-Nitrophenol)	88-75-5	1,25	4	30	150	
1395	Nitrophenol, 3-; (m-Nitrophenol)	554-84-7	1,25	4	30	150	

Note: Bolded chemicals and values are official 2002 ERPGs

Table 4: Recommended TEELs Rev. 19 (mg/m^3)

No.	Chemical Name	CASRN	Rev.19 Recommended TEELs (mg/m3)				Comments (and changes from TEELs Rev 18)
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
1396	Nitrophenol, 4-; (p-Nitrophenol)	100-02-7	0,75	2,5	15	75	
1397	Nitropropane, 1-	108-03-2	75	75	75	3 500	
1398	Nitropropane, 2-	79-46-9	75	100	150	350	
1399	Nitropyrene, 1-	5522-43-0	0,1	0,3	2	10	
1400	Nitropyridine-n-oxide, 4-; (Pyridine, 4-nitro-1-oxide)	1124-33-0	15	50	80	80	
1401	Nitrosodimethylamine	62-75-9	3,5	10	19	19	
1402	Nitrosodiphenylamine, p-	156-10-5	0,1	0,3	2	150	T-3 uses 'iv' data T-3 changed.
1403	Nitrosodipropylamine; (DPNA)	621-64-7	0,06	0,2	1,25	200	
1404	Nitrosomorpholine	59-89-2	12,5	30	30	30	
1405	Nitroso-n-methylurea, n-	684-93-5	0,015	0,05	0,35	50	T-2 uses 'ip' data T-0, T-1, T-2 changed.
1406	Nitrosophenol, p-	104-91-6	2	6	40	200	T-3 uses 'ip' data All Ts changed.
1407	Nitrosotoluene, p-	611-23-4	7,5	25	150	500	
1408	Nitrosyl chloride	2696-92-6	0,06	0,2	1,25	6	Internet data
1409	Nitrotoluene, m-	99-08-1	25	35	50	1 000	
1410	Nitrotoluene, o-	88-72-2	25	35	50	350	
1411	Nitrotoluene, p-	99-99-0	25	35	50	1 000	
1412	Nitrous acid	7782-77-6	1	3	15	200	OHMTADS states "Corrosive liquid … Highly toxic via inhalation or ingestion". Used HNO3 limits .Added
1413	Nitrous oxide	10024-97-2	75	250	15 000	35 000	
1414	Nonacosane	630-03-5	10	30	50	250	
1415	Nonanal	124-19-6	12,5	40	300	500	T-2 uses 'sk' data Added
1416	Nonane (Shell sol 140)	111-84-2	1 000	3 000	5 000	7 500	T-1, T-2, T-3 changed.
1417	Nonanenitrile; (1-Octyl cyanide)	2243-27-8	125	125	150	750	PEL-TWA for cyanides. Added
1418	Nonanone, 2-	821-55-6	6	15	125	500	Rat LClo > 3980 mg/m3, and rat oral TDlo inserted. Added
1419	Nonoxynol-4	7311-27-5	10	30	50	250	
1420	Nonyl phenol (branched)	84852-15-3	5	15	100	500	
1421	Nonyl phenol (mixed isomers)	25154-52-3	6	20	125	500	
1422	Nonyl phenol, p-	104-40-5	6	20	125	500	
1423	Nonylphenol ethoxylate	127087-87-0	10	30	200	500	T-2, T-3 changed
1424	Nonylphenoxypolyethoxyethanol	68412-54-4	10	30	50	250	
1425	Norbormide	991-42-4	0,75	2	3,8	3,8	
1426	Norchlorofluoroepibatidine	z-0057	0,00004	0,000125	0,00075	0,00125	T-2 uses 'iv' data T-3 uses 'iv' data All Ts changed.
1427	o-Aminophenol; (Aminophenol, o-)	95-55-6	0,5	1,5	10	500	T-2 uses 'ip' data T-0, T-1, T-2 changed.
1428	OctaCDD, 1,2,3,4,6,7,8,9-	3268-87-9	0,025	0,075	0,4	0,4	T-2 uses 'sk' data T-0, T-1 changed.
1429	OctaCDF, 1,2,3,4,6,7,8,9-	39001-02-0	0,003	0,0075	0,06	10	LC50 based on other CDFs. T-0, T-1, T-2 changed
1430	Octachloronaphthalene	2234-13-1	0,1	0,3	0,5	2,5	
1431	Octacosane	630-02-4	0,3	0,3	50	250	T-0, T-1 changed

Table 4: Recommended TEELs Rev. 19 (mg/m^3)

No.	Chemical Name	CASRN	Rev.19 Recommended TEELs (mg/m3)				Comments (and changes from TEELs Rev 18)
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
1432	Octadecanoic acid, n-; (Stearic acid)	57-11-4	0,1	0,3	15	15	T-3 uses 'iv' data T-1, T-2, T-3 changed.
1433	Octadecanol, 1-	112-92-5	25	75	600	7 500	LDlo deleted and mu implant TDlo inserted. Added
1434	Octafuorocyclobutane; (Cyclooctafluorbutane; Freon C-318)	115-25-3	2,00E+05	6,00E+05	2,50E+06	2,50E+06	Added
1435	Octamethylcyclotetrasiloxane	556-67-2	150	400	3 000	4 000	**SAR** TEELs 10, 30, 50, 500 mg/m3 **not used**. Added
1436	Octamethyldiphosphoramide; (Octamethylpyrophosphoramide)	152-16-9	0,15	0,5	0,8	3,5	Added
1437	Octanal; (1-Octanol)	124-13-0	20	60	500	500	Added
1438	Octane, n-	111-65-9	1 250	1 250	1 500	4 000	T-1, T-2 changed.
1439	Octanedione, 2,7-	3214-41-3	20	60	500	500	Toxicity based on octane
1440	Octanenitrile	124-12-9	7,5	20	150	750	Added
1441	Octanone, 2-	111-13-7	60	200	200	500	T-2 uses 'ip' data Added
1442	Octene, 1-	111-66-0	10	30	50	250	In HSDB, CHRIS, OHMTADS, TSCA
1443	Octyl alcohol; (n-octanol)	111-87-5	3,5	10	350	500	
1444	Octyl(phenyl)-N,N-diisobutyl carbamoylmethylphosphine oxide	83242-95-9	10	30	50	250	
1445	o-Ethyl s,s-dipropylphosphorodithioate; (Mocap PC-84)	13194-48-4	10	30	50	50	
1446	Oil gas; (Oil fog)	z-0058	200	750	1 500	2 000	4.2% illuminants, 10.4% CO, 47.6% H, 27.0% CH4, 4.6% CO2, 5.8% N, 0.4% O2. Added
1447	**Oleum; (fuming sulfuric acid)**	**8014-95-7**	1	**2**	**10**	**30**	**Sulfuric acid ERPGs apply**. Added
1448	Onyxide; (s-Triazine-1,3,5(2H,4H,6H)-triethanol)	4719-04-4	3	10	60	350	
1449	Organorhodium complex (PMN–82–147)	z-0059	0,3	7,5	15	500	No toxicity data found. MW assumed, insol Rh conc. limits used. Added
1450	Osmium tetroxide	20816-12-0	0,0075	0,0075	0,1	12,5	All Ts changed.
1451	Ouabain	630-60-4	1,5	5	8,3	12,5	T-3 uses 'iv' data T-3 changed.
1452	Oxalic acid - anhydrous; (Ethanedioic acid)	144-62-7	1	2	5	500	
1453	Oxalic acid - dihydrate	6153-56-6	1	2	5	500	
1454	Oxamyl	23135-22-0	0,35	1	1,7	15	Added
1455	Oxathiane, 1,4-	15980-15-1	15	50	350	1 500	
1456	Oxime 2-butanone; (Ethyl methyl ketoxime)	96-29-7	50	150	400	400	
1457	Oxirane, ethenyl-; (3,4-Epoxy-1-butene)	930-22-3	7,5	30	75	75	T-2 uses 'sk' data T-3 uses 'ip' data Added.
1458	Oxydiacetic acid; (Oxodiacetic acid)	110-99-6	2	6	40	200	
1459	Oxydiphenoxarsine, 10,10'-; (Phenoxyarsine oxide)	58-36-6	1,5	2	14	14	Added
1460	Oxydisulfoton	2497-07-6	0,6	2	3,5	3,5	Added
1461	Oxygen (liquid)	7782-44-7	3,00E+05	6,00E+05	1,00E+06	1,25E+06	
1462	Oxygen difluoride; (Fluorine monoxide)	7783-41-7	0,1	0,1	0,1	1	Added
1463	Ozone	10028-15-6	0,2	0,2	2	10	
1464	Palladium	7440-05-3	10	30	50	250	
1465	Palladium chloride	7647-10-1	0,15	0,4	3	500	
1466	Palladium hydroxide	12135-22-7	0,125	0,3	2,5	75	Added. TSCA CASRN. No toxicity data **SAR**
1467	Paraffin, n-	8002-74-2	2	6	10	500	
1468	Paraffins, petroleum, normal C5-C20	64771-72-8	2 000	2 000	2 000	2 000	

Note: Bolded chemicals and values are official 2002 ERPGs

Table 4: Recommended TEELs Rev. 19 (mg/m^3)

No.	Chemical Name	CASRN	Rev.19 Recommended TEELs (mg/m3)				Comments (and changes from TEELs Rev 18)
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
1469	Paraformaldehyde	30525-89-4	4	12,5	75	100	
1470	Paraldehyde	123-63-7	10	30	50	500	
1471	Paraquat	4685-14-7	0,15	0,15	0,15	150	
1472	Paraquat dichloride; (Paraquat hydrochloride)	1910-42-5	0,1	0,3	1	1	T-1 changed
1473	Paraquat methosulfate; (Paraquat dimethyl sulphate)	2074-50-2	0,75	2	15	40	T-0, T-1, T-2 changed.
1474	Parathion	56-38-2	0,1	0,3	2	10	
1475	Paris Green; (Cupric acetoarsenite)	12002-03-8	1	3,5	22	22	Added
1476	Particulate material (PNOS)	z-0060	10	30	50	250	
1477	PBX (mixture of HMX and nitrocellulose)	z-0061	0,24	0,6	5	500	Assumed 25% HMX & 75% CTN mixture. Original CASRN incorrect, see Cyclotol. Added
1478	Pentaborane	19624-22-7	0,0125	0,04	0,8	2,5	Added
1479	Pentachlorobenzene	608-93-5	10	30	50	400	
1480	Pentachlorobenzo-p-dioxin, 1,2,3,7,8-	40321-76-4	0,00075	0,0025	0,015	0,075	
1481	Pentachlorodibenzofuran, 1,2,3,7,8-	57117-41-6	0,0025	0,0075	0,06	0,3	
1482	Pentachlorodibenzofuran, 2,3,4,7,8-	57117-31-4	0,000025	0,000075	0,0006	0,4	
1483	Pentachloroethane	76-01-7	10	30	500	500	
1484	Pentachloronitrobenzene	82-68-8	0,5	1,5	250	500	T-2 changed.
1485	Pentachlorophenol	87-86-5	0,5	1,5	2,5	2,5	
1486	Pentadecane	629-62-9	30	75	600	3 000	T-3 uses 'iv' data Added
1487	Pentadecanoic acid	1002-84-2	0,4	1,25	7,5	40	T-3 uses 'iv' data Added
1488	Pentadecylamine	2570-26-5	0,1	0,3	2	100	Added
1489	Pentaerythritol	115-77-5	15	30	50	500	
1490	Pentaerythritol tetranitrate	78-11-5	0,015	0,05	0,35	500	T-3 uses 'ip' data
1491	Pentane, n-	109-66-0	1 500	1 500	1 500	4 000	
1492	Pentanenitrile	110-59-8	5	15	75	75	Rat oral TDlo inserted. Added
1493	Pentanone, 2-	107-87-9	600	750	750	5 000	
1494	Pentatriacontane	630-07-9	10	30	50	250	In H&N only
1495	Pentene, 1-	109-67-1	750	2 500	15 000	75 000	HSDB toxicity data
1496	Pentobarbital sodium; (Nembutal sodium)	57-33-0	0,15	0,5	3,5	50	
1497	Perchloric acid	7601-90-3	4	12,5	100	500	
1498	**Perchloroethylene; (Tetrachloroethylene)**	**127-18-4**	150	**689**	**1 378**	**6 890**	**ERPG-1, -2, -3**
1499	Perchloromethyl mercaptan	594-42-3	0,75	1	7,6	75	T-2 changed.
1500	Perchloryl fluoride; (Chlorine oxyfluoride)	7616-94-6	12,5	25	60	400	Added
1501	**Perfluoroisobutylene; (Octafluoro-sec-butene)**	**382-21-8**	0,075	0,075	**0,82**	**2,5**	**ERPG-2, -3,** T-0, T-1 changed
1502	Perlite (fused NaKAl silicate, < 1% quartz)	93763-70-3	10	30	50	500	
1503	Permafluor E+	z-0062	100	150	500	500	Mixture ex MSDS
1504	Permafluor-V (85+% toluene)	z-0063	150	500	1 000	1 500	Mixture PPO, bis-MSB is 85-90% toluene, 10% methanol
1505	Peroxyacetic acid; (Peracetic acid)	79-21-0	6	15	50	50	

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Table 4: Recommended TEELs Rev. 19 (mg/m^3)

No.	Chemical Name	CASRN	Rev.19 Recommended TEELs (mg/m3)				Comments (and changes from TEELs Rev 18)
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
1506	Peroxydicarbonic acid, disodium salt	3313-92-6	7,5	25	150	500	
1507	Petroleum 50 thinner; (Paint thinner)	z-0064	40	125	750	4 000	
1508	Petroleum asphalt (see ARO500)	8052-42-5	0,5	1,5	50	250	Same CASRN as Asphalt (ARO500), different toxicity. T-2 changed.
1509	Petroleum distillates; (see PCR250)	8002-05-8	350	350	500	500	Same CASRN as Petroleum (PCR250), different toxicity. Added
1510	Petroleum mineral oil; (… extracts, light paraffinic distillate solvent)	64742-06-9	10	30	500	500	T-1 changed
1511	Petroleum spirits; (VM & P Naphtha)	8032-32-4	1 250	1 250	1 500	1 500	
1512	Petroleum spirits; (Mineral Spirits, Naphtha)	64742-88-7	10	30	50	500	Added. In RTECS and TSCA
1513	Petroleum spirits; (Mineral spirits, Soltrol)	64475-85-0	75	250	1 500	7 500	All Ts changed.
1514	Petroleum; (Petroleum crude oil; see also PCS 250)	8002-05-9	500	500	500	500	Same CASRN as PCS250, different toxicity. T-0, T-1, T-2 changed.
1515	Phenacetin; (p-acetophenetidide)	62-44-2	10	30	50	60	
1516	Phenaglycodol; (Ultran, or 2-p-chlorophenyl-3-methyl-2,3 butanediol)	79-93-6	10	30	50	350	
1517	Phenanthrene	85-01-8	0,4	1	7,5	300	T-2 uses 'sk' data T-0, T-1, T-2 changed.
1518	Phenanthroline ferrous sulfate o-complex	14634-91-4	10	30	50	250	
1519	**Phenol**	**108-95-2**	20	**40**	**200**	**750**	**ERPG-1, -2, -3**
1520	Phenolphthalein	77-09-8	0,75	2,5	15	400	
1521	Phenyl dichloroarsine; (Dichlorophenylarsine)	696-28-6	1,5	1,5	4	125	Added
1522	Phenyl mercury acetate; (Acetylphenylmercury)	62-38-4	0,1	0,1	10	10	T-1 changed
1523	Phenyl-1,2-propanedione, 1-	579-07-7	2,5	7,5	50	250	
1524	Phenylazo)aniline, p-(	60-09-3	0,6	2	12,5	75	T-3 uses 'ip' data T-3 changed.
1525	Phenylboric Acid; (Benzeneboronic acid)	98-80-6	3	7,5	60	300	
1526	Phenylene diisocyanate, 1,4-	104-49-4	3,5	10	35	35	
1527	Phenylenediamine dihydrochloride, 1,2-	615-28-1	10	30	125	125	T-3 uses 'ip' data T-2, T-3 changed.
1528	Phenylenediamine dihydrochloride, 1,4-	624-18-0	0,6	1,5	12,5	60	
1529	Phenylenediamine, 1,2-; (o-Phenylenediamine)	95-54-5	0,1	0,3	50	500	T-2 changed.
1530	Phenylenediamine, 1,3-; (m-Phenylenediamine)	108-45-2	0,1	0,3	5	125	T-2 changed.
1531	Phenylenediamine, p-	106-50-3	0,1	0,3	0,5	25	
1532	Phenylhydrazine	100-63-0	0,4	0,97	9,74	48,7	PEL-TWA REL-C ignored
1533	Phenylhydrazine hydrochloride	59-88-1	50	150	250	250	T-3 uses 'ip' data
1534	Phenylphenol, 2-; (tert-Butylbenzene)	90-43-7	25	75	500	500	
1535	Phenylphosphine	638-21-1	0,2	0,2	0,2	75	Added
1536	Phenylpropanol, 2-; (Dimethylphenylmethanol)	617-94-7	5	15	100	500	**SAR** TEELs.of 4, 12.5, 100, 200 mg/m3 **not used**. Added
1537	Phenylsilatrane	2097-19-0	0,2	0,6	1	1	Added
1538	Phenylthiourea; (1-phenyl-2-thiourea)	103-85-5	3	3	3	3	
1539	Phenylxylylethane; (PXE)	6196-95-8	10	30	50	250	
1540	Phorate	298-02-2	0,05	0,1	0,6	0,6	Added
1541	Phosacetim	4104-14-7	0,75	2	3,7	3,7	Added
1542	Phosfolan	947-02-4	1,5	5	9	9	Added

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Table 4: Recommended TEELs Rev. 19 (mg/m^3)

No.	Chemical Name	CASRN	Rev.19 Recommended TEELs (mg/m3)				Comments (and changes from TEELs Rev 18)
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
1543	**Phosgene**	**75-44-5**	0,4	0,4	**0,8**	**4**	**ERPG-2, -3** T-1 changed.
1544	Phosmet	732-11-6	0,025	0,075	0,54	40	Added
1545	Phosphamidon; (Famfos)	13171-21-6	0,06	0,15	0,3	60	Added
1546	**Phosphine**	**7803-51-2**	0,4	0,6	**0,7**	**7**	**ERPG-2, -3**
1547	Phosphonic acid, dioctadecyl ester	19047-85-9	0,02	0,06	0,4	2	Added. TSCA CASRN. No toxicity data **SAR**
1548	Phosphonic acid, tridodecyl ester	3076-63-9	12,5	40	250	500	RTECS LD50 > 3160 mg/kg. TSCA also has CASRN 19047-85-9 Added
1549	Phosphoric acid	7664-38-2	1	3	5	500	
1550	Phosphoric acid dimethyl-p-(methylthio)phenyl ester	3254-63-5	1,25	4	7	7	Added
1551	Phosphorous pentafluoride	7647-19-0	15	15	75	400	Added
1552	Phosphorous trifluoride	7783-55-3	15	15	75	500	Added
1553	Phosphorus (red)	7723-14-0	0,1	0,3	0,5	4	T-2 changed
1554	Phosphorus (yellow)	7723-14-1	0,1	0,3	3	5	CASRN adjusted to distinguish from "red"
1555	Phosphorus oxychloride	10025-87-3	0,6	3	3	15	T-1, T-2 changed
1556	Phosphorus pentachloride	10026-13-8	1	2	4,25	70	
1557	Phosphorus pentasulfide	1314-80-3	1	3	5	250	
1558	**Phosphorus pentoxide**	**1314-56-3**	1	**1**	**10**	**50**	**ERPG-1, -2, -3**
1559	Phosphorus trichloride	7719-12-2	2,5	2,5	28	125	T-2 changed
1560	Phosphorus trioxide	1314-24-5	0,4	1,25	7,5	40	Not in RTECS, etc. No toxicity data. LC50 based on HR. Added
1561	Phthalic acid	88-99-3	0,03	0,1	0,6	500	
1562	Phthalic anhydride	85-44-9	12	12	30	60	T-2 uses 'ip' data T-1 changed.
1563	Physostigmine	57-47-6	0,75	2,5	4,5	4,5	T-3 uses 'ip' data Added
1564	Physostigmine salicylate(1:1)	57-64-7	0,5	1,5	2,5	2,5	Added
1565	Picric acid	88-89-1	0,1	0,3	0,5	75	
1566	Picrotoxin	124-87-8	3	7,5	15	15	T-3 uses 'ip' data Added
1567	Piperazine	110-85-0	2	6	40	500	
1568	Piperidine	110-89-4	1	3	22	750	T-2 changed.
1569	Pirimifos-ethyl	23505-41-1	5	15	25	60	Added
1570	Platinum	7440-06-4	1	3	4	4	
1571	Poly alpha olefin; (Synthetic hydrocarbon mixture, PAO)	68649-12-7	5	10	25	250	
1572	Polyamide; (Capron; Poly[iminocarbonylpentamethylene))	25038-54-4	10	30	200	500	MW = 111 x n
1573	Polychlorinated biphenyl (Aroclor 1016): (Chlorodiphenyl [41% Cl]; Aroclor 1241)	12674-11-2	0,2	0,6	1	5	Added
1574	Polychlorinated biphenyl (Aroclor 1016/1242): (Chlorodiphenyl [37% Cl])	z-0065	0,2	0,6	1	5	Used mean of 41% & 42% Cl Added
1575	Polychlorinated biphenyl (Aroclor 1221); (Chlorodiphenyl (21% Cl))	11104-28-2	0,2	0,6	1	5	
1576	Polychlorinated biphenyl (Aroclor 1232): (Chlorodiphenyl [32% Cl])	11141-16-5	0,2	0,6	1	5	Added
1577	Polychlorinated biphenyl (Aroclor 1242); (Chlorodiphenyl (42% Cl))	53469-21-9	1	3	5	5	
1578	Polychlorinated biphenyl (Aroclor 1248); (Chlorodiphenyl (48% Cl))	12672-29-6	0,2	0,6	1	5	
1579	Polychlorinated biphenyl (Aroclor 1254); (Chlorodiphenyl (54% Cl))	11097-69-1	0,5	1,5	2,5	5	

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Table 4: Recommended TEELs Rev. 19 (mg/m^3)

No.	Chemical Name	CASRN	Rev.19 Recommended TEELs (mg/m3)				Comments (and changes from TEELs Rev 18)
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
1580	Polychlorinated biphenyl (Aroclor 1260); (Chlorodiphenyl (60% Cl))	11096-82-5	0,3	0,75	5	5	
1581	Polychlorinated biphenyl (Aroclor 1260/1262): (Chlorodiphenyl [61% Cl?])	z-0066	0,2	0,6	1,5	5	Used Aroclor 60% Cl. Added
1582	Polychlorinated biphenyl (Aroclor 1262): (Chlorodiphenyl [62% Cl])	37324-23-5	1	3	5	5	Added
1583	Polychlorinated biphenyl (Aroclor 1268); (Chlorodiphenyl (68% Cl))	11100-14-4	0,2	0,6	1	5	Used IDLH for other aroclors
1584	Polychlorinated biphenyl; (Aroclor; PCBs)	1336-36-3	1	3	5	5	MW range = 292-361
1585	Polyester; (Methacrylic acid diester with triethylene glycol)	109-16-0	10	30	50	500	
1586	Polyethylene	9002-88-4	10	30	50	500	
1587	Polyethylene glycol	25322-68-3	10	30	50	500	T-3 uses 'iv' data
1588	Polyoxyalkyleneamine; (Poly(oxypropylene)diamine)	9046-10-0	10	30	50	100	
1589	Polyoxyethylene monooctylphenyl ether	9036-19-5	15	50	350	500	
1590	Polypropylene glycols	25322-69-4	10	10	40	75	T-3 uses 'ip' data T-3 changed.
1591	Polypropylene-polyethylene glycols	9003-11-6	10	30	200	500	
1592	Polystyrene resin; (Styrene polymer)	9003-53-6	10	30	50	250	
1593	Polyurethane foam; (Urethane polymers)	9009-54-5	0,2	0,6	5	25	
1594	Polyvinyl chloride	9002-86-2	6	18	300	500	T-1, T-2 changed
1595	Potassium	7440-09-7	2	2	2	10	KOH limits used, except for NaOH IDLH
1596	Potassium acetate	127-08-2	12,5	40	250	500	
1597	Potassium aluminate	12003-63-3	7,5	20	35	150	Used TSCA CASRN & MF, no toxicity data found. Added
1598	Potassium aluminite	z-0067	2,5	7,5	12,5	500	Added. No toxicity data found **SAR**
1599	Potassium aluminosilicate	z-0068	5	30	50	500	Added. No listing found, except Na-K-aluminosilicate, CASRN = 12736-96-8 **SAR**
1600	Potassium antimonate	29638-69-5	2	6	10	200	Used TSCA CASRN & MF. No toxicity data. Added
1601	Potassium antimonate (X)	12208-13-8	1	3	5	100	Used H&N MW & MF for this CASRN. KSbO3 not found. Added
1602	Potassium antimonite	z-0069	0,75	2,5	4	75	Changed "antomonate" to "antimonite". Added
1603	Potassium argentate	z-0070	0,015	0,05	0,075	15	Added
1604	Potassium arsenate	7784-41-0	0,025	0,075	0,125	12,5	T-1, T-2, T-3 changed.
1605	Potassium arsenite	10124-50-2	0,05	0,15	0,25	25	. SAX CASRN = 13464-35-2, which RTECs lists as AsHO2, MW = 146.02 T-1, T-2, T-3 changed.
1606	Potassium arsenite (X)	13464-35-2	0,05	0,15	2,5	25	Used SAX MW & MF, See SAX # FOM050. RTECS, HSDB, H&N have CASRN = 10124-50-2 for this MF & MW. Added
1607	Potassium beryllium oxide	z-0071	0,015	0,075	0,075	30	Added
1608	Potassium bicarbonate	298-14-6	12,5	35	60	500	TSCA MF = C-H2-O3.K; both H&N and HC&P same as SAX; no toxicity data found. Added
1609	Potassium bismuthate	12589-75-2	1,25	4	25	200	RTECS CASRN, with mw = 296.08, MF = Bi-O3.K., lists both LD50 & Tdlo. Added
1610	Potassium bisulfate	7646-93-7	10	30	200	500	
1611	Potassium bromate	7758-01-2	2	6	40	125	
1612	Potassium bromide	7758-02-3	12,5	40	250	500	
1613	Potassium cadminate	z-0072	0,01	0,06	0,1	20	MF based on MW. Added
1614	Potassium carbonate	584-08-7	10	20	50	500	
1615	Potassium chlorate	3811-04-9	12,5	40	300	350	

Table 4: Recommended TEELs Rev. 19 (mg/m^3)

No.	Chemical Name	CASRN	Rev.19 Recommended TEELs (mg/m3)				Comments (and changes from TEELs Rev 18)
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
1616	Potassium chloride	7447-40-7	1,5	5	15	15	
1617	Potassium chromate(VI)	7789-00-6	0,15	0,35	3,5	50	T-1, T-2, T-3 changed.
1618	Potassium citrate	866-84-2	1,25	4	30	150	T-3 uses 'iv' data All Ts changed.
1619	Potassium columbate; (Potassium niobate)	12030-85-2	12,5	35	250	500	
1620	Potassium cyanide	151-50-8	5	5	5	60	T-3 changed.
1621	Potassium dichromate	7778-50-9	0,125	0,25	2,5	40	All Ts changed.
1622	Potassium ferricyanide	13746-66-2	6	15	30	500	T-0, T-1, T-2 changed.
1623	Potassium fluoride	7789-23-3	7,5	20	40	500	All Ts changed.
1624	Potassium formate	590-29-4	20	60	500	500	T-3 uses 'iv' data Added
1625	Potassium glycolate	1932-50-9	35	75	600	3 500	Prefer mu oral LD50 to iv data. Added
1626	Potassium hydrogen lead oxide	z-0073	0,06	0,06	0,06	125	Added. No toxicity data found **SAR**
1627	Potassium hydrogen pyro-phosphate	z-0074	4	12,5	20	400	Added. No listing, except Potassium pyrophosphate, CASRN =7320-34-5, MF = 4K.P2O7, MW = 330.34 **SAR**
1628	Potassium hydrogen silicate	z-0075	10	30	50	250	No toxicity data found. Added
1629	Potassium hydroxide	1310-58-3	2	2	2	150	
1630	Potassium iminodiacetate; (Potassium IDA)	z-0076	35	100	750	4 000	Added. Disodium iminodiacetate is CASRN 928 72-3, MW = 177.08. MW does not match MF. **SAR**
1631	Potassium iodate	7758-05-6	20	60	60	60	T-3 uses 'ip' data T-2, T-3 changed.
1632	Potassium iodide	7681-11-0	0,25	0,75	6	300	T-3 uses 'iv' data T-3 changed.
1633	Potassium lanthanate	z-0077	0,4	1,25	2,5	2,5	Added. No "lanthanate" listing found **SAR**
1634	Potassium metaborate	z-0078	12,5	35	250	500	No listing found. Potassium borate found, CASRN = 1332-77-0 Added
1635	Potassium molybdate	13446-49-6	12,5	35	60	500	T-0, T-1, T-2 changed.
1636	Potassium nickel oxide (liquids)	z-0079	0,75	0,75	1,5	30	Added
1637	Potassium nickelate (liquids)	z-0080	1	1	1,5	35	Added
1638	Potassium nickelate (solids)	z-0081	2	2	3,5	35	Added
1639	Potassium nitrate	7757-79-1	1	3,5	20	500	SAX MW incorrect
1640	Potassium nitrilotriacetate (Potassium NTA)	2399-85-1	5	15	100	500	Added
1641	Potassium nitrite	7758-09-0	0,04	0,1	0,75	500	
1642	Potassium orthovanadate	z-0082	0,06	0,2	0,6	40	Added
1643	Potassium oxalate	583-52-8	7,5	25	150	500	
1644	Potassium permanganate	7722-64-7	0,6	7,5	15	125	
1645	Potassium persulfate; (Dipotassium persulfate)	7727-21-1	0,1	0,3	0,5	350	
1646	Potassium pertechnetate	14133-76-7	10	30	50	250	Listed in OHMTADS, naturally radioactive, T1/2 22000 years, radiation dose will dominate. Added
1647	Potassium phosphate, dibasic	7758-11-4	10	30	50	250	
1648	Potassium phosphate, monobasic	7778-77-0	10	30	50	500	
1649	Potassium phosphate, tribasic	7778-53-2	10	30	50	500	
1650	Potassium pyrophosphate; (Tetrapotassium diphosphorate)	7320-34-5	10	30	500	500	T-2 changed.

Note: Bolded chemicals and values are official 2002 ERPGs

Table 4: Recommended TEELs Rev. 19 (mg/m^3)

No.	Chemical Name	CASRN	Rev.19 Recommended TEELs (mg/m3)				Comments (and changes from TEELs Rev 18)
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
1651	Potassium pyrosulfate; (Disulfuric acid, dipotassium salt)	7790-62-7	10	30	50	250	
1652	Potassium selenate	7790-59-2	0,5	1,5	2,5	2,5	Added
1653	Potassium selenite	10431-47-7	0,5	0,5	0,5	2,5	TSCA MF = 2K.H2SeO3. Added
1654	Potassium silver cyanide	506-61-6	1	3	20	20	Added
1655	Potassium stannate	12142-33-5	2,5	7,5	12,5	125	**SAR** but TSCA CASRN. RTECS "potassium stannate trihydrate", CASRN = 12125-03-0 mu iv LD50, and Sn cmpnd limits, Ts are 4, 12.5, 20, 150 Added
1656	Potassium strontium phosphate	z-0083	10	30	50	500	Added. No toxicity data found **SAR**
1657	Potassium sulfate (2:1)	7778-80-5	2	6	40	500	
1658	Potassium sulfite	10117-38-1	10	30	50	250	
1659	Potassium tellurate	15571-91-2	0,2	0,6	1	5	Data ex RTECS, TSCA MF = 2K-Te-H2-O4. Added
1660	Potassium tellurite	7790-58-1	0,2	0,6	1	15	Added
1661	Potassium tetraphenylborate	3244-41-5	1	3	5	25	Data from MSDS
1662	Potassium thiocyanate	333-20-0	10	35	60	60	
1663	Potassium trihydrogen silicate	z-0084	10	30	50	250	No toxicity data found. Added
1664	Potassium tungstate (liquids)	7790-60-5	1,5	5	5	5	TSCA, HC&P listed. Added
1665	Potassium tungstate (solids)	7790-60-6	1,5	5	5	5	TSCA, HC&P listed, last CASRN digit changed. Added
1666	Potassium uranyl carbonate	z-0085	0,4	1	1,75	15	Added
1667	Potassium zirconate	12030-98-7	12,5	25	25	125	CASRN and MF ex TSCA, MW corrected. Added
1668	Praseodymium nitrate	10361-80-5	7,5	20	150	500	
1669	Praseodymium oxide	12036-32-7	7,5	25	150	500	Added. In HC&P, TSCA, no toxicity data, rat oral LD50 estimated from other Pr compounds
1670	Promecarb; (m-CYM-5-YL methylcarbamate)	2631-37-0	3	10	16	25	RTECS r LD50 = 35 mg/kg Added
1671	Propanamine, 1-; (Propylamine)	107-10-8	40	125	600	600	
1672	Propane	74-98-6	1 500	3 500	3 500	3 500	
1673	Propane sultone, 1,3-	1120-71-4	0,4	1,25	7,5	20	T-2 uses 'iv' data T-0, T-1, T-2 changed.
1674	Propanediamine, 1,2-	78-90-0	7,5	25	200	500	
1675	Propanediamine, 1,3-	109-76-2	0,6	1,5	12,5	125	T-2 uses 'ip' data T-0, T-1, T-2 changed.
1676	Propanedinitrile; (Malononitrile)	109-77-3	8	8	8	25	
1677	Propargyl alcohol	107-19-7	2	4	10	150	
1678	Propargyl bromide	106-96-7	0,03	0,03	0,03	20	RTECS rat LD50 = 53 mg/m3 used, T-3 changed
1679	Propiolactone, b-	57-57-8	1,5	1,5	15	40	T-2 changed.
1680	Propionaldehyde	123-38-6	30	75	500	500	
1681	Propionic acid	79-09-4	30	30	40	1 000	
1682	Propionic acid, 3-ethoxy-, ethyl ester	763-69-9	20	60	400	500	
1683	Propionic anhydride	123-62-6	10	30	200	500	
1684	Propionitrile; (Propiononitrile)	107-12-0	12,5	35	35	35	
1685	Propionyl chloride	79-03-8	0,3	0,75	6	30	TSCA only; LC50 estimated.
1686	Propoxur	114-26-1	0,5	1,5	20	20	T-2 changed.

Table 4: Recommended TEELs Rev. 19 (mg/m^3)

No.	Chemical Name	CASRN	Rev.19 Recommended TEELs (mg/m3)				Comments (and changes from TEELs Rev 18)
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
1687	Propyl alcohol, n-	71-23-8	500	600	600	2 000	
1688	Propyl chloroformate; (Propyl chlorocarbonate)	109-61-5	2	6	10	300	T-2 changed.
1689	Propyl nitrate	627-13-4	100	150	500	5 000	
1690	Propyl-1-butanamine, N-	20193-21-9	15	50	350	500	No toxicity data found **SAR**
1691	Propylbenzene, n- (Isocumene)	103-65-1	150	400	3 000	15 000	
1692	Propylene carbonate, 1,2-	108-32-7	0,125	0,35	2,5	12,5	
1693	Propylene glycol dinitrate; (Otto fuel)	6423-43-4	0,35	0,35	0,6	100	
1694	Propylene glycol monomethyl ether; (UCAR TRIOL HG-170)	107-98-2	350	500	1 000	2 500	
1695	Propylene glycol mono-n-butyl ether; (3-butoxy-1-propanol)	10215-33-5	50	50	50	50	
1696	Propylene glycol; (1,2-Propanediol)	57-55-6	150	150	250	3 000	T-3 uses 'ip' data T-3 changed.
1697	**Propylene oxide; (Methyl ethylene oxide)**	**75-56-9**	100	**120**	**600**	**1 899**	**ERPG-1, -2, -3**
1698	Propylene; (1-Propene)	115-07-1	40 000	40 000	40 000	40 000	Asphixiant, all Ts changed to LEL=2.4%
1699	Propyleneimine, 1,2-	75-55-8	4	12,5	120	200	T-2 changed
1700	Prothoate; (Isopropyl diethyldithiophosphorylacetamide)	2275-18-5	0,35	1	1,7	7,5	Added
1701	Pyrene	129-00-0	15	15	15	15	T-2 uses 'sk' data
1702	Pyridine	110-86-1	15	50	75	3 000	
1703	Pyriminil; (Pyriminyl)	53558-25-1	1,25	3,5	6,2	20	Added
1704	Pyromellitic acid	89-05-4	1,25	3,5	25	125	T-3 uses 'ip' data All Ts changed.
1705	Pyroxylin; (Cellulose tetranitrate)	9004-70-0	10	30	50	500	
1706	Pyrrolidine	123-75-1	5	15	100	500	
1707	Pyrrolidinone, 2-	616-45-5	3,5	10	60	150	RTECS toxicity data used. MW ex SAX/ Added
1708	Quinhydrone	106-34-3	0,3	0,75	6	30	T-3 uses 'iv' data All Ts changed.
1709	Quinoline	91-22-5	1,25	3,5	25	150	
1710	Quinolinol, 8-	148-24-3	3,5	10	60	500	T-2 uses 'ip' data T-0, T-1, T-2 changed.
1711	Resorcinol	108-46-3	40	75	75	75	T-2 uses 'sk' data
1712	Rhenium oxide; (Rhenium(VII) oxide)	1314-68-7	1,25	4	6	30	Added. Listed in TSCA, no toxicity data. Soluble W limits used.
1713	Rhodium	7440-16-6	0,1	3	5	100	
1714	Rhodium oxide (liquids); (Rhodium(IV) oxide)	12137-27-8	0,00125	0,0375	0,0625	2,5	MW & MF changed. Rhodium(III) (above) & rhodium(IV) oxide are listed, but not Rh2.O Added
1715	Rhodium oxide (solids); (Rhodium((IV) oxide)	12137-27-9	0,125	4	6	125	MW & MF changed. Liquid treated as sol. solids insol., CASRN ex HC&P, last digit changed. Added
1716	Rhodium(III) hydroxide (liquids)	21656-02-0	0,0015	0,045	0,075	3	TSCA listed CASRN Added
1717	Rhodium(III) hydroxide (solids)	21656-02-1	0,15	4	7,5	150	TSCA CASRN last digit changed Added
1718	Rhodium(III) oxide (solids)	12036-35-0	0,125	3,5	6	125	TSCA listed CASRN Added
1719	Ricin	9009-86-3	0,025	0,075	0,5	1,5	
1720	Rotenone	83-79-4	5	5	7,5	500	
1721	Rubidium bromide	7789-39-1	10	30	50	250	
1722	Rubidium chloride	7791-11-9	0,015	0,05	0,35	500	

Note: Bolded chemicals and values are official 2002 ERPGs

Table 4: Recommended TEELs Rev. 19 (mg/m^3)

No.	Chemical Name	CASRN	Rev.19 Recommended TEELs (mg/m3)				Comments (and changes from TEELs Rev 18)
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
1723	Rubidium hydroxide	1310-82-3	2,5	7,5	50	250	Added. Corrosive irritant
1724	Rubidium nitrate	13126-12-0	10	30	50	500	
1725	Ruthenium	7440-18-8	10	30	50	250	
1726	Ruthenium trichloride	10049-08-8	1,5	4	30	150	T-3 uses 'ip' data All Ts changed.
1727	Ruthenium(IV) oxide	12036-10-1	4	12,5	15	15	Added
1728	Safrol; (1,3-Benzodioxole, 5-(2-propenyl)-)	94-59-7	5	15	100	500	T-2 uses 'ip' data T-0, T-1, T-2 changed.
1729	Salcomine; (bis[Salicylaldehyde]ethylenediimine cobalt[II])	14167-18-1	7,5	20	40	400	Added
1730	Salicylic acid	69-72-7	0,3	0,75	6	400	T-2 uses 'sk' data T-0, T-1, T-2 changed.
1731	Samarium nitrate	10361-83-8	7,5	25	150	500	
1732	Samarium(III) oxide	12060-58-1	20	60	400	500	Added. Rat oral LD50 > 5 g/kg
1733	Scandium oxide	12060-08-1	10	30	50	250	Added. HC&P and TSCA listed, no toxicity data, PNOS used
1734	Selenious acid	7783-00-8	0,3	1	1,5	1,5	T-3 uses 'iv' data All Ts changed.
1735	Selenium	7782-49-2	0,2	0,6	1	1	
1736	Selenium dioxide	7446-08-4	0,25	0,75	1,25	1,3	T-2, T-3 changed.
1737	Selenium hexafluoride	7783-79-1	1	2,5	4	40	T-3 changed.
1738	Selenium monosulfide	7446-34-6	0,25	0,75	12,5	15	T-2 changed.
1739	Selenium oxychloride	7791-23-3	0,4	1,25	4	4	Added
1740	Selenium sulfide; (Se(IV) disulfide (1:2))	7488-56-4	0,35	1	1,5	60	
1741	Semicarbazide hydrochloride	563-41-7	20	60	100	100	
1742	Silane	7803-62-5	6	20	30	5 000	
1743	Silica, amorphous fume	69012-64-2	2	6	10	50	
1744	Silica, amorphous fumed	112945-52-5	2	6	100	500	T-2 changed.
1745	Silica, amorphous hydrated	7631-86-9	6	30	50	500	
1746	Silica-crystalline (quartz); (Silicon dioxide)	14808-60-7	0,15	0,15	0,25	50	
1747	Silicic acid	7699-41-4	10	10	50	400	T-3 uses 'iv' data Added
1748	Silicofluoric acid; (Fluorosilicic acid)	16961-83-4	3	7,5	15	50	
1749	Silicon	7440-21-3	15	30	50	500	
1750	Silicon (II) oxide	10097-28-6	10	30	50	250	
1751	Silicon carbide	409-21-2	15	30	50	250	
1752	Silicon tetrafluoride; (Tetrafluorosilane)	7783-61-1	3	10	15	400	Added
1753	Silicone (several formulations); (Decamethylcyclopentasiloxane)	541-02-6	10	30	50	500	
1754	Silver	7440-22-4	0,01	0,3	0,5	10	
1755	Silver carbonate; (Silver(I) carbonate)	534-16-7	0,0125	0,04	0,06	12,5	Added
1756	Silver chloride	7783-90-6	10	30	50	500	T-1, T-2 changed.
1757	Silver cyanide	506-64-9	25	25	25	125	All Ts changed.
1758	Silver hydroxide	z-0086	0,01	0,035	0,06	10	Added
1759	Silver nitrate	7761-88-8	0,015	0,045	0,075	15	All Ts changed.

Table 4: Recommended TEELs Rev. 19 (mg/m^3)

No.	Chemical Name	CASRN	Rev.19 Recommended TEELs (mg/m3)				Comments (and changes from TEELs Rev 18)
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
1760	Silver nitrite; (Silver(I) nitrite)	7783-99-5	0,0125	0,04	0,06	12,5	Added
1761	Silver oxide	20667-12-3	10	30	50	50	T-3 uses 'ip' data T-3 changed.
1762	Sodium	7440-23-5	0,5	0,5	5	50	NaOH limits used
1763	Sodium (tetra)borate, di-	1330-43-4	3	3	5	25	
1764	Sodium acetate	127-09-3	15	40	300	500	
1765	Sodium aluminate	1302-42-7	2	6	10	50	
1766	Sodium aluminate; (Aluminum sodium oxide)	11138-49-1	2	6	10	500	
1767	Sodium aluminosilicate	1344-00-9	3,5	10	150	500	r os LD50>27 g/kg, LC > 140 mg/m3 **SAR** used. Added
1768	Sodium aluminum carbonate dihydroxide; (Dawsonite)	12011-76-6	3,5	10	150	500	Added. RTECS CASRN for "dehydroxy sodium aluminum, carbonate", same MF. **SAR**
1769	Sodium aluminum silicate	73987-94-7	3,5	10	15	500	Added. Intertox & TSCA CASRN TSCA MF. **SAR** used.
1770	Sodium antimonate	33908-66-6	0,75	2	4	75	TSCA has CASRN= 33908-66-6 for Na.Sb.(OH)6 Added
1771	Sodium antimonate; (Antimonic acid, sodium salt)	11112-10-0	1	3	5	100	TSCA lists CASRN = 15432-85-6 for Na.SbO3 Added
1772	Sodium antimonite	z-0087	0,75	2,5	4	75	Added
1773	Sodium argentate	z-0088	0,015	0,04	0,075	15	MF based on MW Added
1774	Sodium arsenate	7631-89-2	0,025	0,075	0,125	12,5	REL-C ignored. T-1, T-2, T-3 changed.
1775	Sodium arsenite	7784-46-5	0,015	0,045	0,075	7,5	REL-C ignored. T-1, T-2, T-3 changed.
1776	Sodium azide	26628-22-8	0,29	0,29	0,29	12,5	T-0, T-1 changed
1777	Sodium beryllium oxide	z-0089	0,0125	0,06	0,0625	25	Added
1778	Sodium bicarbonate	144-55-8	10	30	50	500	
1779	Sodium bifluoride; (Sodium hydrogen fluoride)	1333-83-1	4	4	6	35	
1780	Sodium bismuthate	12232-99-4	1,5	5	35	150	**SAR** TEELs 1.25, 4, 25, 200 mg/m3 **not used**. Added
1781	Sodium bisulfate; (Sodium acid sulfate)	7681-38-1	1,25	3,5	25	125	
1782	Sodium bisulfite	7631-90-5	5	15	25	500	
1783	Sodium borate decahydrate	1303-96-4	5	15	25	500	
1784	Sodium borohydride	16940-66-2	0,075	0,2	1,5	7,5	T-3 uses 'ip' data All Ts changed.
1785	Sodium bromate	7789-38-0	0,6	1,5	12,5	60	T-3 uses 'ip' data All Ts changed.
1786	Sodium bromide	7647-15-6	1,5	5	35	500	
1787	Sodium butyl (2-ethylhexyl)phosphate	z-0090	0,02	0,06	0,4	2	Added. No toxicity data found **SAR**
1788	Sodium butyl butylphosphonate	z-0091	0,02	0,06	0,4	2	Added. No toxicity data found **SAR**
1789	Sodium cacodylate; (Sodium dimethylarsenate)	124-65-2	1	3	40	500	T-2 changed.
1790	Sodium cadminate	z-0092	0,01	0,06	0,1	15	MF based on MW. Added
1791	Sodium carbonate	497-19-8	10	30	50	500	
1792	Sodium carbonate monohydrate	5968-11-6	1,5	5	35	150	HSDB data used.
1793	Sodium chloride	7647-14-5	15	40	300	500	
1794	Sodium chromate decahydrate	13517-17-4	0,3	0,6	0,6	100	T-1, T-3 changed.
1795	Sodium chromate(VI); (Disodium chromate)	7775-11-3	0,15	0,3	0,3	40	T-3 changed.
1796	Sodium citrate; (Monosodium citrate)	18996-35-5	10	30	50	500	

Table 4: Recommended TEELs Rev. 19 (mg/m^3)

No.	Chemical Name	CASRN	Rev.19 Recommended TEELs (mg/m3)				Comments (and changes from TEELs Rev 18)
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
1797	Sodium cobaltinitrite	13600-98-1	0,125	0,4	3	15	T-2 uses 'ip' data All Ts changed.
1798	Sodium cyanide	143-33-9	5	5	5	40	T-3 changed.
1799	Sodium dichromate dihydrate	7789-12-0	0,15	0,3	0,3	40	T-3 changed.
1800	Sodium dichromate; (Disodium dichromate)	10588-01-9	0,125	0,25	25	35	All Ts changed.
1801	Sodium diethyldithiocarbamate; (Carbamodithioic acid, diethyl-, sodium salt)	148-18-5	2	6	100	500	T-2 uses 'ip' data T-1, T-2 changed.
1802	Sodium dodecylbenzenesulfonate; (Dodecyl benzene sodium sulfonate)	25155-30-0	4	12,5	75	200	
1803	Sodium ferrocyanide	13601-19-9	5	15	25	500	
1804	Sodium fluoride	7681-49-4	5	5	5	75	
1805	Sodium formate	141-53-7	40	125	500	500	
1806	Sodium gluconate	527-07-1	0,6	2	15	75	T-3 uses 'ip' data All Ts changed.
1807	Sodium glycinate	6000-44-8	4	12,5	100	500	T-3 uses 'iv' data Added
1808	Sodium glycolate; (Sodium hydroxyacetate)	2836-32-0	40	125	750	3 000	Added
1809	Sodium hydride	7646-69-7	10	10	10	10	
1810	Sodium hydrogen lead oxide	z-0093	0,06	0,06	0,06	125	Added. No toxicity data found **SAR**
1811	Sodium hydrogen metasilicate	z-0094	4	12,5	75	400	Added. No toxicity data found **SAR**
1812	Sodium hydrogen pyrophosphate	z-0095	4	12,5	20	400	Added. No toxicity data found, but Tetrasodium pyrophosphate CASRN = 7722-88-5 **SAR**
1813	Sodium hydrosulfite	7775-14-6	10	30	50	250	
1814	**Sodium hydroxide**	**1310-73-2**	0,5	**0,5**	**5**	**50**	**ERPG-1, -2, -3**
1815	Sodium hypochlorite	7681-52-9	25	75	500	500	
1816	Sodium hypochlorite pentahydrate	10022-70-5	0,075	0,2	1,5	500	
1817	Sodium iodate	7681-55-2	1,5	1,5	1,5	25	Treated as iodine compound. Added
1818	Sodium iodide	7681-82-5	0,75	2,5	15	500	
1819	Sodium lanthanate	z-0096	0,4	1,25	2,5	2,5	Added. No "lanthanate" listing or toxicity data found **SAR**
1820	Sodium lauryl sulfate; (Surfactant)	151-21-3	0,35	1	6	500	T-2 uses 'sk' data T-0, T-1, T-2 changed.
1821	Sodium metabisulfite	7681-57-4	5	15	25	100	T-3 uses 'iv' data T-3 changed.
1822	Sodium metaborate	7775-19-1	6	15	30	500	SAX, RTECS, HSDB MF = BHO2.Na, not NaBO2 Added
1823	Sodium metaphosphate	10361-03-2	3,5	10	75	350	T-3 uses 'ip' data All Ts changed.
1824	Sodium metasilicate	z-0097	10	30	50	250	Added
1825	Sodium metasilicate nonahydrate	13517-24-3	10	30	50	500	T-3 changed
1826	Sodium metavanadate; (Sodium vanadate)	13718-26-8	0,1	0,35	2	30	T-2 uses 'ip' data T-0, T-1, T-2 changed.
1827	Sodium methylate	124-41-4	7,5	25	150	500	
1828	Sodium molybdate dihydrate; (Disodium molybdate dihydrate)	10102-40-6	3,5	3,5	200	200	T-3 uses 'ip' data T-2, T-3 changed.
1829	Sodium monoxide; (Sodium oxide)	12401-86-4	10	10	10	10	
1830	Sodium nickel oxide (liquid)	z-0098	0,6	0,6	1	20	Added
1831	Sodium nickelate (Liquids)	z-0099	0,75	0,75	1,5	30	Added
1832	Sodium nickelate (Solids)	z-0100	1,5	1,5	3	30	Added

Note: Bolded chemicals and values are official 2002 ERPGs

Table 4: Recommended TEELs Rev. 19 (mg/m^3)

No.	Chemical Name	CASRN	Rev.19 Recommended TEELs (mg/m3)				Comments (and changes from TEELs Rev 18)
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
1833	Sodium nitrate	7631-99-4	0,4	1	7,5	100	
1834	Sodium nitrite	7632-00-0	0,04	0,125	1	60	
1835	Sodium nitroferricyanide	14402-89-2	0,6	2	12,5	20	T-0, T-1, T-2 changed.
1836	Sodium orthovanadate	13721-39-6	0,15	0,15	15	35	
1837	Sodium oxalate	62-76-0	10	30	50	50	T-3 uses 'ip' data T-3 changed.
1838	Sodium pentachlorophenate	131-52-2	1	3,5	25	75	T-1, T-2 changed.
1839	Sodium perchlorate	7601-89-0	10	30	50	500	
1840	Sodium peroxide	1313-60-6	10	10	10	10	
1841	Sodium perrhenate; (Rhenium(VII) sodium oxide)	13472-33-8	10	30	50	500	T-3 uses 'ip' data
1842	Sodium pertechnetate	13718-28-0	10	30	50	250	Radiation dose will dominate. Added
1843	Sodium phophate, bibasic	7558-79-4	60	200	500	500	
1844	Sodium phosphate (tribasic)	7601-54-9	10	30	50	500	T-3 uses 'iv' data
1845	Sodium phosphate dibasic heptahydrate	7782-85-6	50	150	500	500	Listed in RTECS & HSDB Added
1846	Sodium phosphate monobasic	7558-80-7	35	100	500	500	Added
1847	Sodium phosphate, dibasic dodecahydrate	10039-32-4	1,5	5	35	150	T-3 uses 'ip' data All Ts changed.
1848	Sodium phosphate, tribasic dodecahydrate	10101-89-0	10	30	50	500	
1849	Sodium phosphate, tribasic; (Sodium hexametaphosphate; Calgon)	10124-56-8	25	75	500	500	
1850	Sodium phosphate, tribasic; (Sodium trimetaphosphate)	7785-84-4	15	40	300	500	T-3 uses 'ip' data T-0, T-1, T-2 changed.
1851	Sodium p-tert-amylphenate; (4-[1,1-dimethylpropyl]-phenol, sodium salt)	31366-95-7	10	30	50	250	
1852	Sodium pyrophosphate, di-; (see also TEE500 for tetra-)	7758-16-9	10	30	50	500	
1853	Sodium selenate; (Disodium selenate)	13410-01-0	0,5	1,5	1,6	1,6	
1854	Sodium selenite	10102-18-8	0,4	1,25	2,3	3	
1855	Sodium silicate caustic; (Silicic acid, disodium salt)	6834-92-0	5	15	100	500	
1856	Sodium stannate	12058-66-1	3,5	10	15	150	Added. As inorganic tin compound Ts = 3.5, 10.5, 30, 150 mg/m3. **SAR not used**.
1857	Sodium stearate	822-16-2	0,15	0,5	3,5	15	T-3 uses 'iv' data All Ts changed.
1858	Sodium strontium phosphate	z-0101	10	30	50	500	Added. No toxicity data found **SAR**
1859	Sodium succinate	150-90-3	35	100	750	4 000	T-3 uses 'iv' data Added
1860	Sodium sulfate (anhydrous)	7757-82-6	10	30	500	500	T-2 changed.
1861	Sodium sulfhydrate; (Sodium hydrosulfide)	16721-80-5	0,06	0,15	1,25	6	T-3 uses 'ip' data All Ts changed.
1862	Sodium sulfide hydrate	1313-82-2	0,75	2,5	15	75	
1863	Sodium sulfite	7757-83-7	10	30	50	100	T-3 uses 'iv' data T-3 changed.
1864	Sodium tellurate	10101-83-4	0,15	0,5	0,75	150	CASRN ex SAX Added
1865	Sodium tellurite	10102-20-2	0,15	0,5	7,5	25	T-2 changed.
1866	Sodium tetraphenyl borate	143-66-8	1,25	3,5	25	125	
1867	Sodium thiosulfate	7772-98-7	10	30	50	500	T-3 uses 'ip' data
1868	Sodium thiosulfate pentahydrate	10102-17-7	10	30	50	500	T-3 uses 'ip' data
1869	Sodium trihydrogen silicate	z-0102	10	30	50	250	Added

Note: Bolded chemicals and values are official 2002 ERPGs

Table 4: Recommended TEELs Rev. 19 (mg/m^3)

No.	Chemical Name	CASRN	Rev.19 Recommended TEELs (mg/m3)				Comments (and changes from TEELs Rev 18)
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
1870	Sodium tripolyphosphate	7758-29-4	10	30	50	500	T-3 changed
1871	Sodium tungstate	13472-45-2	1	3	5	500	
1872	Sodium uranate; (Sodium diuranate)	13721-34-1	0,075	0,75	1,5	15	T-3 changed.
1873	Sodium uranium oxide	z-0103	0,06	0,75	1,25	12,5	Added
1874	Sodium uranyl carbonate	z-0104	0,4	0,75	1,5	15	Added
1875	Sodium zirconate	12201-48-8	10	20	20	100	Added
1876	Sodium-o-benzyl-p-chlorophenate	3184-65-4	10	30	50	250	
1877	Sodium-Potassium	11135-81-2	0,5	0,5	5	50	ERPGs for NaOH used. MW for 78wt.% K and 22 wt.% Na
1878	Soman; (3,3-Dimethyl-2-butanol methylphosphonofluoridate, GD)	96-64-0	0,00003	0,00009	0,0015	0,04	T-1, T-2 changed
1879	Squalene; (Hexamethyl-tetracosahexane)	111-02-4	20	60	400	500	
1880	Stannic chloride; (Tin(IV) chloride; Tin(IV) tetrachloride)	7646-78-8	4	4	7,5	200	T-3 changed.
1881	Stannous chloride; (Tin(II) chloride (1:2))	7772-99-8	3	10	15	150	T-3 changed.
1882	**Stibine**	**7803-52-3**	0,5	0,5	**2,6**	**7,8**	**ERPG-2, -3.**
1883	Stilbene 3; (Tinopal CBS, Disodium-4,4'-bis[2-sulfostyryl]biphenyl)	27344-41-8	0,25	0,75	6	500	
1884	Stilbene 420	588-59-0	10	30	50	500	T-3 uses 'ip' data
1885	Strontium	7440-24-6	10	30	50	250	
1886	Strontium carbonate	1633-05-2	20	20	20	20	Added. HSDB and TSCA MF = C-H2-O3-Sr, but HSDB MW =147.63 **SAR**
1887	Strontium hydroxide	18480-07-4	0,75	0,75	20	75	Added. In RTECS some toxicity data, TSCA **SAR**
1888	Strontium nitrate	10042-76-9	10	30	50	500	
1889	Strontium nitrite	z-0105	0,04	0,1	0,75	75	Added. No toxicity data found **SAR**
1890	Strontium oxalate	814-95-9	7,5	25	60	75	Added. TSCA MF = C2-H2-O4.Sr No toxicity data found **SAR**
1891	Strontium phosphate	14414-90-5	10	30	500	500	Added. RTECS MF = H3-O4-P.xSr, gives MW = 448.48 for x = 4 **SAR**
1892	Strontium sulfate	7759-02-6	10	30	50	250	MF & MW ex H&N
1893	Strychnine & salts	57-24-9	0,15	0,3	0,3	3	
1894	Strychnine sulfate (2:1)	60-41-3	1	3	5	30	Added
1895	**Styrene**	**100-42-5**	200	**213**	**1 065**	**4 260**	**ERPG-1, -2, -3**
1896	Styrene oxide; (1,2-Epoxyethylbenzene)	96-09-3	20	60	250	250	
1897	Sulfamic acid	5329-14-6	12,5	40	250	500	
1898	Sulfonic acid; (Petroleum acid sulfonate)	61789-85-3	10	30	50	250	
1899	Sulfosalicylic acid	97-05-2	10	30	200	500	
1900	Sulfotep; (TEDP)	3689-24-5	0,2	0,5	3,5	10	Added
1901	Sulfur	7704-34-9	0,125	0,4	2,5	12,5	T-3 uses 'iv' data All Ts changed.
1902	**Sulfur dioxide**	**7446-09-5**	0,75	**0,75**	**7,5**	**40**	**ERPG-1, -2, -3**
1903	Sulfur hexafluoride	2551-62-4	6 000	15 000	30 000	30 000	T-3 uses 'iv' data
1904	Sulfur monochloride	10025-67-9	5	5	5	25	
1905	Sulfur pentafluoride	5714-22-7	0,1	0,1	0,1	10	Added
1906	Sulfur tetrafluoride	7783-60-0	0,4	0,4	9,2	9,2	T-1 changed

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Table 4: Recommended TEELs Rev. 19 (mg/m^3)

No.	Chemical Name	CASRN	Rev.19 Recommended TEELs (mg/m3)				Comments (and changes from TEELs Rev 18)
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
1907	**Sulfur trioxide**	**7446-11-9**	0,6	**2**	**10**	**30**	**ERPG-1, -2, -3**
1908	**Sulfuric acid, Sulfur trioxide (7446-11-9), and Oleum (8014-95-7)**	**7664-93-9**	1	**2**	**10**	**30**	**ERPG-1, -2, -3**
1909	Sulfurous acid	7782-99-2	0,0125	0,04	0,3	1,5	Added. Exists only in solution
1910	Sulfuryl fluoride	2699-79-8	20	40	750	750	Added
1911	Talc	14807-96-6	2	2	10	500	
1912	Tallo oil (alkyd resin)	68333-62-0	10	30	50	250	
1913	Tantalum(V) fluoride	7783-71-3	7,5	20	35	100	T-3 uses 'iv' data T-3 changed.
1914	Tantalum(V) oxide	1314-61-0	6	12,5	30	500	T-2 changed.
1915	Tartaric acid	87-69-4	4	12,5	75	400	T-3 uses 'iv' data All Ts changed.
1916	Technetium(IV) oxide	12036-16-7	10	30	50	250	Radiation dose will dominate. Added
1917	Tellurium	13494-80-9	0,1	0,3	20	25	
1918	Tellurium chloride	10026-07-0	0,2	0,6	10	50	T-2, T-3 changed.
1919	Tellurium hexafluoride	7783-80-4	0,35	1	1	15	T-2, T-3 changed
1920	Tellurium oxide; (Tellurium dioxide)	7446-07-3	0,125	0,35	0,6	30	T-3 changed
1921	Tellurous acid	10049-23-7	0,125	0,4	0,6	35	Added
1922	Terbium oxide	12036-41-8	10	30	50	250	Added. Listed in TSCA, no toxicity data, PNOS used, no stable isotopes.
1923	Terbufos	13071-79-9	0,2	0,6	1	1	Added
1924	Terephthaloyl chloride	100-20-9	0,75	2,5	20	500	
1925	Terphenyl; p-	92-94-4	5	5	9	500	T-0, T-1 changed
1926	Terphenyls; (Diphenylbenzene)	26140-60-3	5	5	9	500	T-0 changed
1927	Tert-butyl alcohol; (tert-Butanol)	75-65-0	300	400	5 000	5 000	T-2 changed.
1928	Tetraamminepalladium(I) nitrate	13601-08-6	1,5	5	35	150	TSCA listed. No toxicity information. LD50 based on HR of 2. Added
1929	Tetrabromoethane, 1,1,2,2-; (Acetylene tetrabromide)	79-27-6	12,5	20	60	100	
1930	Tetrabutyl ammonium phosphate	z-0106	10	30	50	250	
1931	Tetrabutyl titanate; (Butyl titanate)	5593-70-4	12,5	40	250	1 250	
1932	Tetrabutylammonium dihydrogen phosphate, mono/dibasic, & salt soln.	5574-97-0	10	30	50	250	
1933	Tetrachlorobenzene, 1,2,3,4-	634-66-2	12,5	35	250	500	
1934	Tetrachlorobenzene, 1,2,4,5-	95-94-3	10	30	50	500	
1935	Tetrachlorodibenzofuran, 2.3.7.8-	51207-31-9	0,0006	0,002	0,002	0,002	
1936	Tetrachlorodibenzo-p-dioxin, 1,2,3,8-	53555-02-5	0,004	0,0125	0,075	0,4	
1937	Tetrachloroethane (mixed isomers)	25322-20-7	10	35	200	3 000	T-2 uses 'ip' data T-0, T-1, T-2 changed.
1938	Tetrachloroethane 1,1,1,2-	630-20-6	20	60	400	1 500	
1939	Tetrachloroethane, 1,1,2,2-	79-34-5	20	20	35	600	
1940	Tetrachlorohexafluorobutane, 2,2,3,3-; (FLON; Freon substitute; CFC316)	375-34-8	2,5	7,5	50	250	
1941	**Tetrachlorosilane; (Silicon chloride)**	**10026-04-7**	5,3	**5,3**	**35**	**259**	**ERPG-1, -2, -3**
1942	Tetracyanoquinodimethan; (Scintillation Cocktail, Ultima Gold AB)	1518-16-7	0,4	1,25	10	50	T-3 uses 'iv' data All Ts changed.
1943	Tetracycline hydrochloride	64-75-5	0,75	2,5	15	500	

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Table 4: Recommended TEELs Rev. 19 (mg/m^3)

No.	Chemical Name	CASRN	Rev.19 Recommended TEELs (mg/m3)				Comments (and changes from TEELs Rev 18)
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
1944	Tetradecane	629-59-4	0,4	1	7,5	10 000	T-2 uses 'sk' data T-3 uses 'iv' data Added
1945	Tetradecanoic acid; (Myristic acid)	544-63-8	0,35	1	7,5	35	T-3 uses 'iv' data Changed units Added
1946	Tetraethyl lead	78-00-2	0,1	0,4	0,75	60	T-3 changed.
1947	**Tetraethyl orthosilicate; (Ethyl silicate; Tetraethoxysilane)**	**78-10-4**	200	**213**	**850**	**2 550**	**ERPG-1, -2, -3**
1948	Tetraethyl pyrophosphate; (TEPP)	107-49-3	0,05	0,15	1	5	Added
1949	Tetraethylenepentamine	112-57-2	0,75	2,5	15	75	
1950	Tetraethyltin; (Tetraethylstannane)	597-64-8	0,2	0,4	7	50	T-3 changed.
1951	Tetrafluoroethane, 1,1,1,2-; (HFC 134a)	811-97-2	4 000	12 500	2,00E+05	6,00E+05	T-2 changed.
1952	**Tetrafluoroethylene**	**116-14-3**	7,5	**750**	**4 000**	**40 000**	**ERPG-1, -2, -3**
1953	Tetrafluorohydrazine	10036-47-2	3	10	15	400	Added
1954	Tetrahydro-2,5-dimethyl furan	1003-38-9	15	50	350	500	Listed in H&N; used Tetrahydrodimethylfuran CASRN 1320-94-1
1955	Tetrahydrofuran	109-99-9	600	750	3 000	6 000	
1956	**Tetramethoxysilane; (Methyl silicate)**	**681-84-5**	6	7,5	**62**	**124**	**ERPG-2, -3**
1957	Tetramethyl Lead	75-74-1	0,1	0,6	4	50	T-1, T-2, T-3 changed.
1958	Tetramethyl-1,3-butanediamine, n,n,n',n'-; (Tetramethyl butanediamine)	97-84-7	2	6	40	200	
1959	Tetramethyl-5-decyn-4,7-diol, 2,4,7,9-	126-86-3	10	30	50	250	T-3 changed.
1960	Tetramethylammonium hydroxide	75-59-2	0,06	0,15	1,25	6	
1961	Tetramethylsilane	75-76-3	15	50	75	350	
1962	Tetranitromethane	509-14-8	7,5	7,5	8	30	
1963	Tetraphenylarsonium chloride; (Tetraphenylarsenium chloride)	507-28-8	2,5	7,5	12,5	25	T-3 uses 'iv' data T-3 changed.
1964	Tetrapotassium ethylene-diaminetetraacetate; (EDTA)	5964-35-2	4	15	75	400	Added. EDTA tetrapotassium salt, MW corrected to match RTECS and TSCA MF. No tox data **SAR**
1965	Tetrapropylammonium hydroxide	4499-86-9	0,15	0,5	3,5	15	
1966	Tetrasodium pyrophosphate	7722-88-5	5	15	25	500	
1967	Thallium (elemental and soluble compounds)	7440-28-0	0,1	0,3	2	15	
1968	Thallium carbonate (2:1)	6533-73-9	0,4	1,25	2	10	T-3 uses 'sk' data T-0, T-1, T-3 xhanged.
1969	Thallium chloride; (Thallium(I) chloride)	7791-12-0	0,4	1,25	2	10	T-0, T-1, T-3 changed.
1970	Thallium hydroxide	12026-06-1	0,1	0,3	0,5	15	Listed in TSCA and HC&P Added
1971	Thallium nitrate; (Thallium(I) nitrate)	10102-45-1	0,125	0,4	6	20	T-2, T-3 changed.
1972	Thallium nitrite	13826-63-6	0,125	0,35	0,6	15	Listed in HC&P Added
1973	Thallium oxide	1314-12-1	0,1	0,3	0,5	15	Pchem data ex HC&P, sol in H2O Added
1974	Thallium sulfate; (Sulfuric acid, dithallium(1+) salt)	10031-59-1	0,1	0,3	2	15	. RTECS & HSDB MW = 1528.67
1975	Thallium(I) acetate; (Acetic acid, thallium(1+) salt)	563-68-8	0,125	0,4	0,6	20	T-3 changed.
1976	Thallium(I) sulfate; (Sulfuric acid, dithallium(1+) salt)	7446-18-6	0,0002	0,0006	0,004	0,006	All Ts changed.
1977	Thallium(III) oxide	1314-32-5	2	2	2	20	
1978	Thallous malonate	2757-18-8	0,125	0,35	2	15	T-3 changed.
1979	Thenoyl trifluoroacetone	326-91-0	1,25	3,5	25	125	

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Table 4: Recommended TEELs Rev. 19 (mg/m^3)

No.	Chemical Name	CASRN	Rev.19 Recommended TEELs (mg/m3)				Comments (and changes from TEELs Rev 18)
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
1980	Thioacetamide	62-55-5	10	30	50	125	
1981	Thiobis(4-chloro-6-methyl)-phenol, 2,2'-	4418-66-0	0,25	0,75	1,3	1,3	Added
1982	Thiocarbazide; (Thiocarbohydrazide)	2231-57-4	20	60	100	100	
1983	Thiodiglycol	111-48-8	25	75	500	500	
1984	Thiofanox; (Dacamox)	39196-18-4	8,5	8,5	8,5	30	
1985	Thionazin; (Ethyl pyrazinyl phosphorothioate)	297-97-2	0,6	2	3,5	3,5	Added
1986	**Thionyl chloride**	**7719-09-7**	0,97	**0,97**	**9,74**	**48,7**	**ERPG-1, -2, -3**
1987	Thiosemicarbazide	79-19-6	0,075	0,2	1,5	4	
1988	Thiourea	62-56-6	10	10	25	125	
1989	Thiram; (Thioperoxydicarbonic diamide [(H2N)C(S)]2S2, tetramethyl-)	137-26-8	5	5	5	100	
1990	Thorium	7440-29-1	10	30	50	250	
1991	Thorium hydroxide	z-0107	0,75	0,75	2,5	75	Added. No toxicity data found **SAR**
1992	Thorium nitrite	z-0108	0,05	0,125	0,75	75	Added. No toxicity data found **SAR**
1993	Thorium oxide	1314-20-1	25	75	500	500	T-2 uses 'iv' data T-0, T-1 changed.
1994	Thorium(IV) nitrate	13823-29-5	0,75	2	15	25	T-3 uses 'ip' data T-3 changed.
1995	Thulium chloride heptahydrate (as TmCl3)	13537-18-3	15	50	350	500	T-0, T-1, T-2 changed
1996	Thulium oxide	12036-44-1	10	30	50	250	Added. Listed in TSCA, no toxicity data, PNOS used, no stable isotopes.
1997	Thymol blue; (6,6[3H-2,1-benzoxathiol-3-ylidene]di-,s,s-dioxide)	76-61-9	10	30	50	250	
1998	Thyodene; (Amylodextrin)	9005-84-9	10	30	50	250	Listed in TSCA and H&N
1999	Tin	7440-31-5	2	6	100	100	T-2 changed.
2000	Tin hydroxide	12026-24-3	2,5	7,5	12,5	125	Listed in TSCA and HC&P. Added
2001	Tin nitrate	z-0109	4	12,5	20	200	Added
2002	Tin nitrite	z-0110	3,5	10	15	150	Added
2003	Tin(II) oxide	1332-29-2	2,5	7,5	12,5	125	T-3 changed.
2004	Titanium	7440-32-6	10	30	50	250	
2005	Titanium chloride	7705-07-9	0,5	1,5	10	50	
2006	Titanium hydride	7704-98-5	1,5	5	35	150	RTECS data
2007	Titanium oxide; (Titanium dioxide)	13463-67-7	15	15	15	500	
2008	**Titanium tetrachloride**	**7550-45-0**	0,5	**5**	**20**	**100**	**ERPG-1, -2, -3**
2009	Titanium(II) oxide	12137-20-1	10	30	50	250	
2010	Titanium(III) fluoride	7783-63-3	4	4	4	4	
2011	Titanium-based alloy; (Titanium compounds)	z-0111	10	30	50	250	
2012	Toluene	108-88-3	150	188	1 125	3 750	ERPG-1, -2, -3
2013	**Toluene 2,6-diisocyanate**	**91-08-7**	0,035	**0,07**	**1,1**	**4,3**	**ERPG-1, -2, -3** T-1, T-2, T-3 changed.
2014	**Toluene diisocyanate, 2,4-; (TDI)**	**584-84-9**	0,035	**0,07**	**1,1**	**4,3**	**ERPG-1, -2, -3**
2015	Toluene-1,3-diisocyanate	26471-62-5	1,5	5	12,5	12,5	
2016	Toluene-2,6-diamine; (Benzenediamine, 2-methyl-1,2-)	823-40-5	1,5	4	30	150	LD50 estimated

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Table 4: Recommended TEELs Rev. 19 (mg/m^3)

No.	Chemical Name	CASRN	Rev.19 Recommended TEELs (mg/m3)				Comments (and changes from TEELs Rev 18)
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
2017	Toluenediamine, 2,4-; (2,4-Diaminetoluene)	95-80-7	4	12,5	75	125	T-3 uses 'ip' data T-3 changed.
2018	Toluenethiol, m-	108-40-7	0,2	0,6	4	20	T-3 uses 'ip' data All Ts changed.
2019	Toluidene, o-	95-53-4	20	25	40	200	
2020	Toluidine, m-	108-44-1	7,5	7,5	40	200	
2021	Toluidine, p-; (4-Methylbenzenamine)	106-49-0	2	6	10	300	
2022	Toxaphene; (Chlorinated camphene)	8001-35-2	0,5	1	20	200	
2023	Trans-1,4-dichlorobutene; (2-Butylene dichloride)	110-57-6	0,2	0,6	4,4	40	Added
2024	Tri (2-ethyl hexyl) phosphate; (Tris….)	78-42-2	12,5	12,5	12,5	12,5	
2025	Triacetin; (Triacetyl glycerin)	102-76-1	12,5	35	250	500	
2026	Triamiphos	1031-47-6	2	6	10	10	Added
2027	Triazofos; (Triazophos)	24017-47-8	0,5	1,5	2,8	125	Added
2028	Tributyl phosphate	126-73-8	5	6	10	300	
2029	Tributyl(2,4-dichlorobenzyl)phosphonium chloride	115-78-6	0,75	2	15	75	
2030	Tributyltetradecylphosphonium chloride	81741-28-8	10	30	50	250	PNOS used.
2031	Trichloro(dichlorophenyl) silane	27137-85-5	0,4	1	8	8	Added
2032	Trichloro-2,2,2-trifluoroethane, 1,1,1-	354-58-5	250	500	500	500	
2033	Trichloroacetaldehyde hydrate; (Chloral hydrate)	302-17-0	10	30	50	50	
2034	Trichloroacetaldehyde monohydrate; (Chloral)	75-87-6	2,5	7,5	50	250	T-3 uses 'ip' data All Ts changed.
2035	Trichloroacetic acid	76-03-9	6	6	15	150	T-2 uses 'ip' data T-2 changed.
2036	Trichloroacetyl chloride	76-02-8	0,2	0,6	4,5	50	HSDB has MP = -31.8 C Added
2037	Trichloroamine; (Nitrogen chloride)	10025-85-1	0,6	1,5	12,5	100	
2038	Trichlorobenzene, 1,2,3-	87-61-6	6	15	125	500	T-3 uses 'ip' data T-0, T-1, T-2 changed.
2039	Trichlorobenzene,1,2,4-	120-82-1	35	35	35	300	
2040	**Trichloroethane, 1,1,1-; (Methyl chloroform)**	**71-55-6**	1 925	**1 925**	**3 850**	**19 250**	**ERPG-1, -2, -3**
2041	Trichloroethane, 1,1,2-	79-00-5	50	50	100	500	
2042	**Trichloroethylene**	**79-01-6**	500	**538**	**2 690**	**26 900**	**ERPG-1, -2, -3**
2043	Trichloroethylsilane; (Ethyl trichlorosilane)	115-21-9	0,15	0,4	3	40	T-0, T-1, T-2 changed.
2044	Trichlorofluoromethane; (Fluorotrichloromethane, Freon 11)	75-69-4	2 500	2 500	7 500	10 000	
2045	Trichloronate; (Ethyl trichlorophenylethylphosphonothioate)	327-98-0	2	6	10	300	Added
2046	Trichlorophenol, 2,3,6-	933-75-5	1,25	4	25	125	T-3 uses 'ip' data All Ts changed.
2047	Trichlorophenol, 2,4,5-	95-95-4	10	30	50	350	
2048	Trichlorophenol, 2,4,6-	88-06-2	10	30	350	350	T-2 changed.
2049	Trichlorophenoxy)propionic acid, 2-; (2,4,5-Silvex)	93-72-1	10	30	50	250	
2050	Trichlorophenoxyacetic acid, 2,4,5-; (2,4,5-T)	93-76-5	10	30	50	250	
2051	Trichlorophenylsilane	98-13-5	0,15	0,4	3,3	40	
2052	Trichloropropane, 1,2,3-	96-18-4	60	60	60	600	PEL-TWA not used
2053	**Trichlorosilane**	**10025-78-2**	5,5	**5,5**	**16,5**	**138**	**ERPG-1, -2, -3**

Note: Bolded chemicals and values are official 2002 ERPGs

Table 4: Recommended TEELs Rev. 19 (mg/m^3)

No.	Chemical Name	CASRN	Rev.19 Recommended TEELs (mg/m3)				Comments (and changes from TEELs Rev 18)
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
2054	Trichlorotrifluorethane; (Freon 113, or CFC113)	76-13-1	7 500	10 000	10 000	15 000	
2055	Tridecane	629-50-5	10	30	200	500	T-3 uses 'iv' data T-0, T-1, T-2 changed.
2056	Triethanolamine; (Trihydroxytriethylamine)	102-71-6	5	5	20	500	
2057	Triethoxysilane	998-30-1	0,35	1	5	100	T-2 changed
2058	Triethyl phosphate	78-40-0	20	60	400	500	
2059	Triethyl phosphite	122-52-1	12,5	40	300	1 500	
2060	Triethylamine	121-44-8	4	12,5	12,5	750	PEL-TWA not used
2061	Triethylbenzene, 1,2,4-; (Triethylbenzene, mixed isomers)	25340-18-5	40	125	750	4 000	
2062	Triethylene glycol	112-27-6	300	500	500	500	
2063	Triethylene glycol monomethyl ether	112-35-6	40	125	500	500	
2064	Triethylenetetramine	112-24-3	15	50	350	500	
2065	Trifluoroacetic acid; (Trifluoroethanoic acid)	76-05-1	50	75	75	75	
2066	Trifluoroacetyl chloride	354-32-5	5	15	25	1 250	Added
2067	Trifluoro-l-(2-thienyl)-1,3-butanedione (4,4,4-) boron difluoride	22502-27-8	0,75	2,5	15	75	T-3 uses 'iv' data All Ts changed.
2068	Trifluoromethyl)benzenamine, 3-(; (m-Aminobenzyl fluoride)	98-16-8	0,75	2,5	4,4	150	Added
2069	Trifluralin; (2,6-dinitro-N,N-dipropyl-4-(trifluoromethyl) benzenamine	1582-09-8	0,025	0,075	0,6	300	
2070	Triheptylamine, 6,6',6''-trimethyl-; (Triisooctylamine)	2757-28-0	10	15	50	500	
2071	**Trimethoxysilane**	**2487-90-3**	0,25	**2,5**	**10**	**25**	**ERPG-1, -2, -3**
2072	Trimethyl phosphate; (TMP)	512-56-1	25	75	350	350	T-2 uses 'ip' data T-0, T-1 changed.
2073	Trimethyl phosphite; (TMP)	121-45-9	10	30	50	4 000	
2074	Trimethyl-1,3-pentanediol monoisobutyrate2,2,4-; (Texanol)	25265-77-4	25	75	500	500	
2075	Trimethyl-2,5,8,11-tetraoxatetradecan-13-ol, 4,7,10-	20324-34-9	10	30	50	250	T-3 changed
2076	Trimethyl-2-hexene, 4,4,5-	55702-61-9	10	30	50	250	T-3 changed
2077	**Trimethylamine**	**75-50-3**	12,5	35	**250**	**1 250**	**ERPG-2, -3; ignored ERPG-1**
2078	Trimethylaniline, 2,4,6-	88-05-1	0,125	0,4	2,9	40	
2079	Trimethylbenzene, 1,2,3-	526-73-8	125	350	600	4 000	
2080	Trimethylbenzene, 1,2,4-; (Pseudocumene)	95-63-6	125	150	180	7 500	Ts and units changed.
2081	**Trimethylchlorosilane**	**75-77-4**	13	**13**	**88**	**660**	**ERPG-1, -2, -3**
2082	Trimethyldecane, 2,2,8-	62238-01-1	350	350	1 800	7 500	NIOSH limits for Alkanes used. Added
2083	Trimethyldecane, 2,5,6-	62108-23-0	350	350	1 800	7 500	NIOSH limits for Alkanes used. Added
2084	Trimethyldecane, 3,3,4-	62338-09-4	350	350	1 800	1 800	All Ts changed. NIOSH limits for Alkanes used
2085	Trimethylhexane, 2,2,5-	3522-94-9	350	350	1 800	7 500	All Ts changed. NIOSH limits for Alkanes used
2086	Trimethyloctane, 2,2,6-	62016-28-8	350	350	1 800	7 500	NIOSH limits for Alkanes used. Added
2087	Trimethyloctane, 2,3,6-	98060-52-7	350	350	1 800	6 000	All Ts changed. NIOSH limits for Alkanes used
2088	Trimethyloctane, 2,3,7-	62016-34-6	350	350	1 800	7 500	NIOSH limits for Alkanes used. Added
2089	Trimethyloctane, 2,4,6-	62016-37-9	350	350	1 800	7 500	NIOSH limits for Alkanes used. Added
2090	Trimethyloctane, 2,6,6-	54166-32-4	350	350	1 800	7 500	NIOSH limits for Alkanes used. Added

Note: Bolded chemicals and values are official 2002 ERPGs

Table 4: Recommended TEELs Rev. 19 (mg/m^3)

No.	Chemical Name	CASRN	Rev.19 Recommended TEELs (mg/m3)				Comments (and changes from TEELs Rev 18)
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
2091	Trimethylolpropane phosphite	824-11-3	0,125	0,35	2,5	6	Added
2092	Trimethylpentane, 2,2,4-	540-84-1	350	350	1 800	7 500	All Ts changed. NIOSH limits for Alkanes used. MF corrected
2093	Trimethylpyridine, 2,4,6-	108-75-8	7,5	25	150	750	All Ts changed
2094	Trimethylsilanol	1066-40-6	0,15	1,5	7,5	15	Added. Listed in TSCA, no toxicity data found **SAR**
2095	Trimethyltin chloride; (Chlorotrimethylstannane)	1066-45-1	0,15	0,35	20	40	T-3 changed.
2096	Trinitrobenzene 1,3,5-	99-35-4	10	30	50	125	
2097	Trinitrochlorobenzene, 2,4,6- (Picryl chloride)	28260-61-9	10	30	50	250	
2098	Trinitrophenylmethyl-nitramine, 2,4,6-; (Tetryl)	479-45-8	1,5	4,5	7,5	500	
2099	Trinitrotoluene, 2,4,6-	118-96-7	1,5	1,5	1,5	500	
2100	Tri-n-octyl phosphine oxide; (Trioctylphophinic oxide)	78-50-2	10	30	50	250	
2101	Trioctylamine; (n,n-Dioctyl-1-octanamine)	1116-76-3	4	12,5	75	400	T-3 uses 'ip' data All Ts changed.
2102	Tri-o-tolyl phosphate; (Triorthocresyl phosphate)	78-30-8	1,5	4	7,5	600	
2103	Triphenol sulfonium chloride; (Triaryl sulfonium chloride salts)	109037-76-5	10	10	25	125	
2104	Triphenyl phosphate	115-86-6	3	9	150	500	T-2 changed.
2105	Triphenylphosphorane; (Carbethoxyethylidine)	5717-37-3	10	30	50	250	
2106	Triphenyltin chloride; (Chlorotriphenylstannane)	639-58-7	0,3	0,6	20	75	T-3 changed.
2107	Tripotassium (2-hydroxyethyl)-ethylenediaminetriacetate; (HEDTA)	z-0112	5	15	125	600	SAX No. HKS000 lists HEDTA as synonym for "N-hydroxyethylenediaminetriacetic acid" T-0, T-1, T-3 changed.
2108	Tripotassium arsenate	z-0113	0,035	0,1	0,15	15	CASRN = 10124-50-2, RTECS, H&N MW=399.65 (I.e., K7), HSDB, CHRIS MW = 253.93 Added
2109	Tripropylene glycol monomethyl ether; {2-Propanol,1-[2-(2-methoxy-1-methylethoxy)-1-methylethoxy]-(}	20324-33-8	0,25	0,75	6	1 500	T-2 uses 'sk' data Added
2110	Tripropylene glycol; (2-Propanol, 1,1-[(1-methyl-1,2-ethanediyl)bis(oxy)]bis-)	1638-16-0	12,5	35	250	1 250	SAX, RTECS, HSDB CASRN = 24800-44-0, TSCA lists both CASRNs. MF questionable. Added
2111	Tris(2-chloroethyl)amine; (Nitrogen mustard 3)	555-77-1	4	10	10	10	
2112	Tris(dimethylaminomethyl)phenol, 2,4,6-	90-72-2	5	15	100	500	
2113	Tris-hydroxymethylaminomethane; (THAM)	77-86-1	25	75	500	500	
2114	Trisodium arsenate	13464-38-5	0,025	0,075	0,125	12,5	TSCA, H&N MF (so MW = 210.91) different from RTECS MF and MW Added
2115	Trisodium arsenate, heptahydrate; (Arsenic(V) acid, trisodium salt, heptahydrate (1:3:7))	64070-83-3	0,04	0,125	0,2	20	T-3 changed.
2116	Trisodium citrate	68-04-2	6	20	125	600	T-3 uses 'ip' data TSCA has different MF Added
2117	Trisodium ethylenediaminetriacetate	139-89-9	4	12,5	75	400	Added. RTECS, HSDB, TSCA give same MF,.which gives MW =347.27 **SAR**
2118	Triton X-100; (Poly(oxyethjylene)-p-tert-octylphenyl ether)	9002-93-1	15	40	300	500	
2119	Trypan blue	72-57-1	10	30	50	500	
2120	Tungsten	7440-33-7	5	10	10	500	
2121	Tungsten hexafluoride	7783-82-6	1,5	5	7,5	400	T-2, T-3 changed.
2122	Tungsten trioxide; (Tungsten(VI) oxide)	1314-35-8	6	12,5	30	400	T-2 changed.
2123	Tungsten(IV) oxide	12036-22-5	6	10	10	10	
2124	Tungstic acid	7783-03-1	6	12,5	12,5	12,5	Added. Listed in TSCA, no toxicity data. Insoluble W compound
2125	Undecane	1120-21-4	2	6	40	200	

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Table 4: Recommended TEELs Rev. 19 (mg/m^3)

No.	Chemical Name	CASRN	Rev.19 Recommended TEELs (mg/m3)				Comments (and changes from TEELs Rev 18)
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
2126	Undecanone, 2-; (Methyl nonyl ketone)	112-12-9	1,25	4	30	2 000	RTECS mu ip TDlo data inserted. Added
2127	Uranine; (Fluorescein sodium)	518-47-8	12,5	40	250	500	T-2 uses 'iv' data T-0, T-1, T-2 changed.
2128	Uranium	7440-61-1	0,05	0,6	1	10	Insoluble PEL-TWA used. T-0 changed
2129	Uranium black oxide; (Uranium[IV] oxide)	1344-57-6	0,05	0,6	1	10	Insoluble compound. T-0 changed
2130	**Uranium hexafluoride; (Uranium fluoride)**	**7783-81-5**	0,075	**5**	**15**	**30**	**ERPG-1, -2, -3**
2131	Uranium hydride; (Uranium(III) hydride)	13598-56-6	0,05	0,6	1	10	T-0 changed.
2132	Uranium oxide; (Triuranium octaoxide)	1344-59-8	0,06	0,6	1	10	Insoluble compound. T-0 changed
2133	Uranium telluride	z-0114	0,075	1	1,75	15	Insoluble U compound T-0, T-2, T-3 changed.
2134	Uranium telluride-2	12138-37-3	0,1	1,25	2	20	Insoluble U compound T-0, T-2, T-3 changed.
2135	Uranium: insoluble compounds	z-0115	0,05	0,6	1	10	Insoluble compound. T-0 changed
2136	Uranium: soluble compounds	z-0116	0,05	0,6	1	10	
2137	Uranyl acetate; (Uranium oxyacetate)	541-09-3	0,075	1	1,75	15	T-2, T-3 changed.
2138	Uranyl hydroxide	z-0117	0,06	0,75	1,25	12,5	Added
2139	Uranyl hydroxide (liquids)	z-0118	0,06	0,75	1,25	12,5	Added
2140	Uranyl nitrate (solid)	10102-06-4	0,075	1	1,5	15	T-2, T-3 changed.
2141	Uranyl nitrate hexahydrate	13520-83-7	0,1	1,25	1,25	20	T-3 changed.
2142	Uranyl nitrate; (yellow salt)	36478-76-9	0,075	1	1	15	T-3 changed.
2143	Uranyl nitrite (liquids)	z-0119	0,075	0,75	1,5	15	Added
2144	Urea	57-13-6	0,6	2	15	500	
2145	Urethane; (Carbamic acid, ethyl ester; Ethyl carbamate)	51-79-6	500	500	500	500	
2146	Valinomycin	2001-95-8	0,5	1,5	2,5	2,5	
2147	Vanadium	7440-62-2	0,025	0,075	2,5	20	T-2, T-3 changed.
2148	Vanadium pentoxide; (Vanadium(V) oxide)	1314-62-1	0,05	0,5	0,5	35	T-1 changed
2149	Vanadium sulfate	16785-81-2	0,5	1,5	10	50	x = 7 for MW given
2150	Vanadium tetrachloride	7632-51-1	0,6	2	12,5	60	
2151	Vanadium(II) sulfate heptahydrate	36907-42-3	0,15	0,15	0,15	0,75	
2152	Vanadium(III) sulfate	13701-70-7	0,1	0,1	0,1	0,5	
2153	Vanadyl sulfate pentahydrate; (Vanadium[IV] sulfate oxide hydrate)	12439-96-2	0,06	0,18	0,3	200	T-0, T-1, T-2 changed.
2154	Vanadyl sulfate; (Oxysulfatovanadium)	27774-13-6	0,075	0,75	0,75	60	T-1, T-3 changed.
2155	Vegetable oil	68956-68-3	15	30	50	500	T-3 uses 'iv' data
2156	**Vinyl acetate**	**108-05-4**	15	**15**	**250**	**1 500**	**ERPG-1, -2, -3**
2157	Vinyl acetate-vinyl chloride copolymer; (Acetic acid, vinyl ester, polymer with chloroethylene)	9003-22-9	35	100	500	500	
2158	Vinyl acrylic resin	25067-01-0	10	30	50	250	
2159	Vinyl bromide	593-60-2	20	60	100	200	
2160	Vinyl chloride	75-01-4	2,5	12,5	12,5	200	
2161	Vinyl ethyl ether; (Ethoxy ethene)	109-92-2	50	150	1 000	5 000	
2162	Vinyl fluoride	75-02-5	1,5	5	7,5	3 500	T-2 changed.

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Table 4: Recommended TEELs Rev. 19 (mg/m^3)

No.	Chemical Name	CASRN	Rev.19 Recommended TEELs (mg/m3)				Comments (and changes from TEELs Rev 18)
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
2163	Vinylidene chloride; (1,1-dichloroethylene)	75-35-4	20	75	75	2 500	
2164	Vinylidene fluoride; (1,1-Difluoroethene)	75-38-7	1 250	1 250	1 250	35 000	
2165	Warfarin	81-81-2	0,1	0,3	20	20	Added
2166	Warfarin sodium	129-06-6	1,5	5	9	9	Added
2167	Xylene	1330-20-7	400	600	750	4 000	
2168	Xylene, m-	108-38-3	400	600	750	4 000	
2169	Xylene, o-	95-47-6	400	600	750	4 000	
2170	Xylene, p-	106-42-3	400	600	750	4 000	
2171	Xylenol orange tetrasodium salt	3618-43-7	10	30	50	250	
2172	Xylidine	1300-73-8	7,5	7,5	12,5	250	
2173	Xylidine, 2,6-	87-62-7	6	20	125	350	
2174	Xylidine, o-; (2,3-Xylidine)	87-59-2	2,5	50	50	250	
2175	Xylylene dichloride	28347-13-9	0,4	1,25	2	75	Added
2176	Ytterbium fluoride	13760-80-0	10	10	10	10	T-3 uses 'ip' data T-3 changed.
2177	Ytterbium oxide	1314-37-0	10	30	50	250	Added. Listed in TSCA, no toxicity data, PNOS used.
2178	Yttrium	7440-65-5	1	3	5	25	
2179	Yttrium oxide	11130-29-3	1	3	5	500	Rat oral LD50 > 5 g/kg
2180	Yttrium trioxide	1314-36-9	1,25	4	6	500	Added
2181	Zinc	7440-66-6	10	30	50	250	
2182	Zinc acetate	557-34-6	0,3	0,75	6	500	T-2 uses 'ip' data T-0, T-1, T-2 changed.
2183	Zinc bromide	7699-45-8	10	30	50	200	
2184	Zinc carbonate	3486-35-9	5	15	100	500	
2185	Zinc chloride	7646-85-7	2	4	10	40	T-2 changed.
2186	Zinc cyanide	557-21-1	20	20	20	100	T-3 changed.
2187	Zinc fluoride	7783-49-5	6	6	20	100	T-2 changed.
2188	Zinc hydroxide	20427-58-1	0,6	0,6	1,5	60	Added. RTECS listed, no toxicity data FOUND. **SAR**
2189	Zinc nitrate	7779-88-6	10	10	10	10	
2190	Zinc nitrite	10102-02-0	0,035	0,075	0,6	60	Added. In HC&P, no toxicity data found. **SAR**
2191	Zinc oxide	1314-13-2	15	15	15	500	
2192	Zinc phenosulfonate; (Zinc p-hydroxybenzenesulfonate)	127-82-2	0,6	2	12,5	500	
2193	Zinc phosphate	7779-90-0	2	6	50	250	Added. T-3 uses 'ip' data SAX, RTECS, TSCA all have H3 in MF, butthis would give MW = 392.13
2194	Zinc phosphide	1314-84-7	0,6	1,5	12	60	Added
2195	Zinc stearate	557-05-1	15	30	50	150	T-3 uses 'ip' data T-3 changed.
2196	Zinc sulfate	7733-02-0	0,15	0,5	3,5	500	
2197	Zirconium and compounds (as Zr)	7440-67-7	5	10	10	50	
2198	Zirconium boride	z-0120	6	12,5	12,5	60	Added. Zr compounds

Table 4: Recommended TEELs Rev. 19 (mg/m^3)

No.	Chemical Name	CASRN	Rev.19 Recommended TEELs (mg/m3)				Comments (and changes from TEELs Rev 18)
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
2199	Zirconium chloride	10026-11-6	12,5	25	25	125	T-3 changed.
2200	Zirconium chloride oxide octahydrate	13520-92-8	15	35	35	150	T-2, T-3 changed.
2201	Zirconium fluoride	7783-64-4	7,5	15	15	75	Added
2202	Zirconium hydroxide	14475-63-9	7,5	15	15	75	T-2, T-3 changed.
2203	Zirconium nitrate	13746-89-9	15	35	35	150	T-3 changed.
2204	Zirconium nitride	z-0121	6	10	12,5	60	Added. Zr compounds
2205	Zirconium nitrite	z-0122	7,5	15	15	75	Added. Zr compounds
2206	Zirconium oxide	1314-23-4	6	12,5	12,5	60	T-2, T-3 changed.
2207	Zirconium oxynitrate hydrate	14985-18-3	12,5	25	25	125	T-2, T-3 changed.
2208	Zirconium phosphide	z-0123	7,5	15	15	75	Added. Zr compounds
2209	Zirconium potassium fluoride; (Potassium fluozirconate)	16923-95-8	35	150	150	150	
2210	Zirconium silane	z-0124	7,5	15	15	75	Added. Zr compounds
2211	Zirconium sulfate tetrahydrate	14644-61-2	20	40	40	200	T-3 changed.
2212	Zirconyl nitrate; (Bis(nitrato-o)oxozirconium)	13826-66-9	12,5	25	25	125	T-2, T-3 changed.
2213	zzAcrylic latex	z-0125	10	30	50	250	
2214	zzAlumination 301	z-0126	10	30	50	250	
2215	zzDPD free chlorine reagent	z-0127	0,0015	0,004	0,0075	0,2	T-2, T-3 changed.
2216	zzDPD total chlorine reagent	z-0128	0,0015	0,004	0,0075	0,2	T-2, T-3 changed.
2217	zzHydranal coulomat / AG	z-0129	10	30	50	250	
2218	zzHydrocarbon polymer	z-0130	10	30	50	250	
2219	zzHydrocount(R), LSC cocktail	z-0131	10	30	50	250	
2220	zzIconol(R)	z-0132	10	30	50	250	
2221	zzLeco set 7007 powder	z-0133	10	30	50	250	
2222	zzMachine coolant 1	z-0134	10	30	50	250	
2223	zzMonophase- S	z-0135	10	30	50	250	
2224	zzMornar	z-0136	10	30	50	250	
2225	zzOpti-Fluor; (Alkyl benzene blend, 3% tributylphophate)	z-0137	7,5	25	37,5	250	Mixture ex MSDS used. T-2 changed
2226	zzPaint solvent	z-0138	10	10	10	10	
2227	zzPropanol (-2) aluminum derivative	z-0139	2	6	10	50	
2228	zzScintillation cocktail, Ultima Gold XR	z-0140	0,15	0,5	3	15	Used MSDS mixture components
2229	zzSicapent	z-0141	10	30	50	250	
2230	zzSynthetic resins	z-0142	10	30	50	250	
2231	zzTotal sequestrant reagent #5	z-0143	35	40	100	500	Used MSDS mixture components
2232	zzTrifluoroacetyl)-N,0,0,0-tetrakis((TMS)norepinephrine, N-(	z-0144	0,04	0,125	0,75	7,5	Toxicity data for "Norepinephrine", CASRN = 51-41-2, used. Added
2233	zzWaste oil	z-0145	10	30	50	250	
2234	zzXtraction II	z-0146	10	30	50	250	

Note: Bolded chemicals and values are official 2002 ERPGs

Table 3: Recommended TEELs Rev. 19 (by CASRN)

No.	Chemical Name	CASRN	Rev. 19 Recommended TEELs				Units of original limits
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
1	Formaldehyde	50-00-0	0,3	1	10	25	ppm
2	Mitomycin C	50-07-7	4	12,5	23	23	mg/m3
3	Ergocalciferol; (Vitamin D2)	50-14-6	7,5	25	40	40	mg/m3
4	Lactic acid	50-21-5	15	40	300	500	mg/m3
5	DDT (Dichlorodiphenyltrichloroethane)	50-29-3	1	3	5	500	mg/m3
6	Benzo(a)pyrene; (Coal tar pitch volatiles)	50-32-8	0,2	0,6	10	80	mg/m3
7	Ascorbic acid	50-81-7	60	200	500	500	mg/m3
8	Fluorouracil	51-21-8	0,75	2,5	19	100	mg/m3
9	Dinitrophenol 2,4-	51-28-5	3	7,5	30	30	mg/m3
10	Epinephrine; (Vasotonin; 1,2-Benzenediol, 4-[1-hydroxy-2-(methylamino) ethyl]-)	51-43-4	0,25	0,25	0,25	0,25	mg/m3
11	Nitrogen mustard; (Bis(b-chloroethyl)methylamine)	51-75-2	1,25	4	29	29	mg/m3
12	Urethane; (Carbamic acid, ethyl ester; Ethyl carbamate)	51-79-6	500	500	500	500	mg/m3
13	Carbachol Chloride	51-83-2	3	7,5	15	15	mg/m3
14	Dibenza(a,h)anthracene	53-70-3	10	30	50	50	mg/m3
15	Acetylaminofluorine, 2-	53-96-3	0,25	0,75	6	30	mg/m3
16	Nicotine; (Pyridine, (S)-3-(1-methyl-2-pyrrolidinyl)-)	54-11-5	0,5	1,5	3,5	5	mg/m3
17	Aminopterin; (Aminopteridine)	54-62-6	5	15	25	25	mg/m3
18	Benzamide	55-21-0	3	10	60	350	mg/m3
19	Nitroglycerin	55-63-0	0,1	0,1	2	75	mg/m3
20	Nitrogen mustard hydrochloride	55-86-7	0,75	2,5	4	4	mg/m3
21	Diisopropylfluorophosphate; (Phosphorofluoridic acid,bis(1-methylethyl) ester)	55-91-4	0,75	2	3,6	3,6	mg/m3
22	Carbon tetrachloride	56-23-5	10	20	100	750	ppm
23	Cantharidin	56-25-7	0,75	2,5	4,3	4,3	mg/m3
24	Parathion	56-38-2	0,1	0,3	2	10	mg/m3
25	Methylcholanthrene 3-	56-49-5	0,2	0,6	4	75	mg/m3
26	Diethylstilbestrol; (Phenol,4,4¢-(1,2-diethyl-1,2-ethenediyl) bis-,(E))	56-53-1	0,0125	0,04	0,3	15	mg/m3
27	Benzo(a)anthracene	56-55-3	0,1	0,3	2	15	mg/m3
28	Coumaphos	56-72-4	1,5	4	30	125	mg/m3
29	Glycerine (mist); (Glycerol, glycerin)	56-81-5	15	30	50	500	mg/m3
30	Ammonium, hexadecyltrimethyl bromide; (Hexadecyltrimethylammonium bromide)	57-09-0	0,035	0,1	0,75	150	mg/m3
31	Hexadecanoic acid; (Palmitic acid)	57-10-3	0,3	0,75	6	50	mg/m3
32	Octadecanoic acid, n-; (Stearic acid)	57-11-4	0,1	0,3	15	15	mg/m3
33	Cyanide (and cyanides)	57-12-5	5	5	5	25	mg/m3
34	Urea	57-13-6	0,6	2	15	500	mg/m3
35	Dimethylhydrazine, 1,1-	57-14-7	0,03	0,03	5	15	ppm
36	Strychnine & salts	57-24-9	0,15	0,3	0,3	3	mg/m3
37	Pentobarbital sodium; (Nembutal sodium)	57-33-0	0,15	0,5	3,5	50	mg/m3
38	Physostigmine	57-47-6	0,75	2,5	4,5	4,5	mg/m3
39	Propylene glycol; (1,2-Propanediol)	57-55-6	50	50	75	750	ppm

Table 3: Recommended TEELs Rev. 19 (by CASRN)

No.	Chemical Name	CASRN	Rev. 19 Recommended TEELs				Units of original limits
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
40	Propiolactone, b-	57-57-8	0,5	0,509	5	15	ppm
41	Physostigmine salicylate(1:1)	57-64-7	0,5	1,5	2,5	2,5	mg/m3
42	Chlordane	57-74-9	0,5	1,5	50	100	mg/m3
43	Oxydiphenoxarsine, 10,10'-; (Phenoxyarsine oxide)	58-36-6	1,5	2	14	14	mg/m3
44	Lindane; (gamma-benzenehexachloride)	58-89-9	0,5	1,5	50	50	mg/m3
45	Chloro-m-cresol, 4-	59-50-7	7,5	20	150	500	mg/m3
46	Phenylhydrazine hydrochloride	59-88-1	50	150	250	250	mg/m3
47	Nitrosomorpholine	59-89-2	12,5	30	30	30	mg/m3
48	Ethylenediaminetetraacetic acid; (Tetrasodium EDTA)	60-00-4	10	30	150	150	mg/m3
49	Phenylazo)aniline, p-(	60-09-3	0,6	2	12,5	75	mg/m3
50	Dimethylaminoazobenzene, 4-	60-11-7	15	50	75	75	mg/m3
51	Ethyl ether	60-29-7	400	500	500	1 900	ppm
52	Monomethylhydrazine; (Methyl hydrazine)	60-34-4	0,01	0,2	0,499	20	ppm
53	Acetamide	60-35-5	25	75	500	500	mg/m3
54	Strychnine sulfate (2:1)	60-41-3	1	3	5	30	mg/m3
55	Dimethoate	60-51-5	6	15	30	30	mg/m3
56	Dieldrin	60-57-1	0,25	0,75	1,25	50	mg/m3
57	Amitrole	61-82-5	0,2	0,6	100	500	mg/m3
58	Phenyl mercury acetate; (Acetylphenylmercury)	62-38-4	0,1	0,1	10	10	mg/m3
59	Phenacetin; (p-acetophenetidide)	62-44-2	10	30	50	60	mg/m3
60	Methanesulfonic acid, ethyl ester; (Ethyl methanesulfonate)	62-50-0	0,5	1,5	10	150	mg/m3
61	Aniline	62-53-3	5	6	10	100	ppm
62	Thioacetamide	62-55-5	10	30	50	125	mg/m3
63	Thiourea	62-56-6	10	10	25	125	mg/m3
64	Dichlorovos; (Dichlorvos)	62-73-7	0,3	0,3	2,21	100	ppm
65	Fluoroacetic acid,sodium salt; (Sodium fluoroacetate)	62-74-8	0,05	0,15	0,5	2,5	mg/m3
66	Nitrosodimethylamine	62-75-9	3,5	10	19	19	mg/m3
67	Sodium oxalate	62-76-0	10	30	50	50	mg/m3
68	Carbaryl	63-25-2	5	15	25	100	mg/m3
69	Cumenol methylcarbamate, m-; (Phenol, 3-[1-methylethyl]-, methylcarbamate)	64-00-6	3	10	16	16	mg/m3
70	Ethylenediaminetetraacetic acid; (Tetrasodium EDTA)	64-02-8	1,25	4	30	150	mg/m3
71	Ethyl alcohol; (ethanol)	64-17-5	1 000	3 000	3 300	3 300	ppm
72	Formic acid	64-18-6	5	10	10	30	ppm
73	Acetic acid	64-19-7	10	15	35	50	ppm
74	Diethyl sulfate	64-67-5	0,3	0,75	6	25	ppm
75	Tetracycline hydrochloride	64-75-5	0,75	2,5	15	500	mg/m3
76	Colchicine	64-86-8	0,04	0,125	0,9	0,9	mg/m3
77	Nicotine Sulfate	65-30-5	4	9	9	9	mg/m3
78	Benzoic acid	65-85-0	4	12,5	75	400	mg/m3

Table 3: Recommended TEELs Rev. 19 (by CASRN)

No.	Chemical Name	CASRN	Rev. 19 Recommended TEELs				Units of original limits
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
79	Hexanal	66-25-1	12,5	35	200	200	ppm
80	Dinitrophenol, 2,3-	66-56-8	0,75	2	15	75	mg/m3
81	Bathophenanthroline; (Use 1,10-o-Phenanthroline)	66-71-7	0,1	0,3	2	30	mg/m3
82	Cycloheximide	66-81-9	0,1	0,3	2	2	mg/m3
83	Diethylenetriaminepentaacetic acid	67-43-6	10	30	50	200	mg/m3
84	Barbituric acid	67-52-7	10	10	40	200	mg/m3
85	Methyl alcohol; (Methanol)	67-56-1	200	200	1 000	5 000	ppm
86	Isopropyl alcohol	67-63-0	400	400	2 000	2 000	ppm
87	Acetone	67-64-1	1 000	1 000	8 500	8 500	ppm
88	Chloroform	67-66-3	2	2	50	5 000	ppm
89	Dimethyl sulfoxide; (DMSO)	67-68-5	35	100	500	500	mg/m3
90	Hexachloroethane	67-72-1	1	3	5	300	ppm
91	Trisodium citrate	68-04-2	0,6	1,5	12,5	60	ppm
92	Dimethylformamide	68-12-2	2	2	100	200	ppm
93	Salicylic acid	69-72-7	0,3	0,75	6	400	mg/m3
94	Guanidine, N-methyl-N'-nitro-N-nitroso-	70-25-7	0,125	0,35	2,5	40	mg/m3
95	Hexachlorophene	70-30-4	10	10	30	200	mg/m3
96	Aminopropiophenone, 4-	70-69-9	1	3,5	5,6	75	mg/m3
97	Propyl alcohol, n-	71-23-8	200	250	250	800	ppm
98	Butyl alcohol, n-	71-36-3	50	50	50	1 400	ppm
99	Amyl alcohol mixed isomers; (1-Pentanol)	71-41-0	100	100	100	500	ppm
100	Benzene	71-43-2	1	50	150	1 000	ppm
101	Trichloroethane, 1,1,1-; (Methyl chloroform)	71-55-6	350	350	700	3 500	ppm
102	Digitoxin	71-63-6	0,0075	0,025	0,18	0,25	mg/m3
103	Endrin	72-20-8	0,1	0,3	2	2	mg/m3
104	Methoxychlor	72-43-5	15	30	50	500	mg/m3
105	DDD (1,1-bis(4-Chlorophenyl)-2,2-dichloroethane)	72-54-8	10	30	50	50	mg/m3
106	DDE (2.2-bis(p-Chlorophenyl)-1,1-dichloroethylene)	72-55-9	10	30	50	400	mg/m3
107	Trypan blue	72-57-1	10	30	50	500	mg/m3
108	Arginine, L-	74-79-3	10	30	50	250	mg/m3
109	Methane	74-82-8	5 000	15 000	25 000	50 000	ppm
110	Methyl bromide; (Bromomethane)	74-83-9	1	20	50	200	ppm
111	Ethane	74-84-0	30 000	30 000	30 000	30 000	ppm
112	Ethylene	74-85-1	150	400	3 000	15 000	ppm
113	Acetylene	74-86-2	2 500	2 500	2 500	6 000	ppm
114	Methyl chloride	74-87-3	100	100	400	1 000	ppm
115	Methyl iodide	74-88-4	5	25	50	125	ppm
116	Monomethylamine; (Methylamine)	74-89-5	10	10	100	500	ppm
117	Hydrogen cyanide; (Hydrocyanic acid)	74-90-8	4,7	4,7	10	25	ppm

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No.	Chemical Name	CASRN	Rev. 19 Recommended TEELs				Units of original limits
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
118	Methyl mercaptan	74-93-1	0,5	10	25	100	ppm
119	Dibromomethane	74-95-3	75	250	500	500	mg/m3
120	Bromochloromethane	74-97-5	200	600	1 000	2 000	ppm
121	Propane	74-98-6	1 000	2 100	2 100	2 100	ppm
122	Methyl acetylene	74-99-7	1 000	1 700	1 700	1 700	ppm
123	Ethyl chloride	75-00-3	1 000	1 000	1 000	3 800	ppm
124	Vinyl chloride	75-01-4	1	5	5	75	ppm
125	Vinyl fluoride	75-02-5	1	3	500	2 500	ppm
126	Ethylamine; (Monoethylamine; Ethylamine anhydrous)	75-04-7	10	15	25	600	ppm
127	Acetonitrile	75-05-8	40	60	60	500	ppm
128	Acetaldehyde	75-07-0	10	10	200	1 000	ppm
129	Ethanethiol; (Ethyl mercaptan)	75-08-1	0,5	10	10	500	ppm
130	Methylene chloride	75-09-2	25	200	750	4 000	ppm
131	Formamide	75-12-7	10	10	50	1 250	ppm
132	Carbon disulfide	75-15-0	10	10	50	500	ppm
133	Dimethyl sulfide; (2-Thiopropane)	75-18-3	0,15	0,5	500	2 000	ppm
134	Cyclopropane	75-19-4	600	1 500	12 500	60 000	ppm
135	Calcium carbide	75-20-7	10	30	50	250	mg/m3
136	Ethylene oxide; (Oxirane)	75-21-8	1	5	50	500	ppm
137	Bromoform; (Tribromomethane)	75-25-2	0,5	0,5	1,5	850	ppm
138	Bromodichloromethane	75-27-4	1,5	4	30	150	mg/m3
139	Methylpropane, 2-; (Isobutane)	75-28-5	800	2 400	4 000	15 000	ppm
140	Isopropyl chloride; (2-Chloropropane)	75-29-6	1 250	3 500	15 000	15 000	ppm
141	Isopropylamine; (2-Propanamine)	75-31-0	5	10	25	750	ppm
142	Ethylidene chloride, 1,1-; (1,1-Dichloroethane)	75-34-3	100	300	3 000	3 000	ppm
143	Vinylidene chloride; (1,1-dichloroethylene)	75-35-4	5	20	20	600	ppm
144	Acetyl chloride	75-36-5	0,0025	0,0075	0,05	125	ppm
145	Difluoroethane; (1,1-Difluoroethane)	75-37-6	400	1 250	7 500	75 000	ppm
146	Vinylidene fluoride; (1,1-Difluoroethene)	75-38-7	500	500	500	12 500	ppm
147	Dichlorofluoromethane; (Freon 21, CFC 21)	75-43-4	10	30	5 000	5 000	ppm
148	Phosgene	75-44-5	0,1	0,1	0,2	1	ppm
149	Chlorodifluoromethane	75-45-6	1 000	1 250	7 500	7 500	ppm
150	Trimethylamine	75-50-3	5	15	100	500	ppm
151	Nitromethane	75-52-5	60	60	100	750	ppm
152	Propyleneimine, 1,2-	75-55-8	2	6	51,4	100	ppm
153	Propylene oxide; (Methyl ethylene oxide)	75-56-9	50	50	250	750	ppm
154	Tetramethylammonium hydroxide	75-59-2	0,06	0,15	1,25	6	mg/m3
155	Cacodylic acid (as inorganic As)	75-60-5	0,5	1,5	5	5	mg/m3
156	Bromotrifluoromethane; (Trifluorobromomethane)	75-63-8	1 000	3 000	25 000	40 000	ppm

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No.	Chemical Name	CASRN	Rev. 19 Recommended TEELs				Units of original limits
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
157	Butylamine, tert-	75-64-9	5	5	7,5	125	ppm
158	Tert-butyl alcohol; (tert-Butanol)	75-65-0	100	150	1 600	1 600	ppm
159	Chloro-1,1-difluoroethane, 1-; (HCFC-142b)	75-68-3	1 000	10 000	15 000	25 000	ppm
160	Trichlorofluoromethane; (Fluorotrichloromethane, Freon 11)	75-69-4	500	500	1 500	2 000	ppm
161	Dichlorodifluoromethane; (Freon 12, CFC 12)	75-71-8	1 000	3 000	10 000	15 000	ppm
162	Chlorotrifluoromethane, (CFC-13)	75-72-9	1 000	3 000	5 000	25 000	ppm
163	Tetramethyl Lead	75-74-1	0,1	0,6	4	50	mg/m3
164	Methanesulfonic acid	75-75-2	4	12,5	75	400	mg/m3
165	Tetramethylsilane	75-76-3	5	15	25	125	ppm
166	Trimethylchlorosilane	75-77-4	1	3	20	150	ppm
167	Dimethyldichlorosilane	75-78-5	0,6	2	10	75	ppm
168	Methyltrichlorosilane	75-79-6	0,15	0,5	3	15	ppm
169	Dimethyl butane, 2,2-	75-83-2	500	510	510	2 500	ppm
170	Methyllactonitrile 2-	75-86-5	5	5	12,5	20	mg/m3
171	Trichloroacetaldehyde monohydrate; (Chloral)	75-87-6	2,5	7,5	50	250	mg/m3
172	Dimethylethyl hydroperoxide, 1,1-; (tert-Butylhydroperoxide)	75-91-2	0,75	2,5	15	50	ppm
173	Pentachloroethane	76-01-7	10	30	500	500	mg/m3
174	Trichloroacetyl chloride	76-02-8	0,03	0,075	0,606	6	ppm
175	Trichloroacetic acid	76-03-9	1	1	2	25	ppm
176	Trifluoroacetic acid; (Trifluoroethanoic acid)	76-05-1	10	15	15	15	ppm
177	Chloropicrin; (Trichloronitromethane)	76-06-2	0,1	0,1	0,3	1,5	ppm
178	Trichlorotrifluorethane; (Freon 113, or CFC113)	76-13-1	1 000	1 250	1 500	2 000	ppm
179	Dichlorotetrafluoroethane; (Freon 114, CFC114)	76-14-2	1 000	3 000	10 000	15 000	ppm
180	Monochloropentafluoroethane; (CFC-115)	76-15-3	1 000	3 000	5 000	3,00E+05	ppm
181	Camphor	76-22-2	2	25	25	200	mg/m3
182	Heptachlor	76-44-8	0,15	0,15	0,25	35	mg/m3
183	Bromocresol green	76-60-8	10	30	50	250	mg/m3
184	Thymol blue; (6,6[3H-2,1-benzoxathiol-3-ylidene]di-,s,s-dioxide)	76-61-9	10	30	50	250	mg/m3
185	Phenolphthalein	77-09-8	0,75	2,5	15	400	mg/m3
186	Hexachlorocylopentadiene	77-47-4	0,01	0,0179	0,0179	0,0179	ppm
187	Dicyclopentadiene	77-73-6	5	5	7,5	40	ppm
188	Dimethyl sulfate	77-78-1	0,970	0,970	0,970	7	ppm
189	Ethyl dimethylamidocyanophosphate; (Tabun; GA)	77-81-6	0,03	0,075	0,15	3	mg/m3
190	Tris-hydroxymethylaminomethane; (THAM)	77-86-1	25	75	500	500	mg/m3
191	Citric acid	77-92-9	10	30	50	500	mg/m3
192	Tetraethyl lead	78-00-2	0,1	0,4	0,75	60	mg/m3
193	Tetraethyl orthosilicate; (Ethyl silicate; Tetraethoxysilane)	78-10-4	25	25	100	300	ppm
194	Pentaerythritol tetranitrate	78-11-5	0,015	0,05	0,35	500	mg/m3
195	Tri-o-tolyl phosphate; (Triorthocresyl phosphate)	78-30-8	0,1	0,3	0,5	40	ppm

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No.	Chemical Name	CASRN	Rev. 19 Recommended TEELs				Units of original limits
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
196	Dioxathion	78-34-2	0,2	0,6	3,5	150	mg/m3
197	Diethyl ethylphosphonate	78-38-6	7,5	25	150	500	mg/m3
198	Triethyl phosphate	78-40-0	20	60	400	500	mg/m3
199	Tri (2-ethyl hexyl) phosphate; (Tris….)	78-42-2	12,5	12,5	12,5	12,5	mg/m3
200	Dibutyl butylphosphonate	78-46-6	0,04	0,125	1	5	ppm
201	Tri-n-octyl phosphine oxide; (Trioctylphophinic oxide)	78-50-2	10	30	50	250	mg/m3
202	Amiton; (O,O-Diethyl-S-(2-diethylaminoethyl) thiophosphate)	78-53-5	0,6	2	3,3	3,3	mg/m3
203	Isophorone	78-59-1	5	5	5	200	ppm
204	Diethoxydimethylsilane	78-62-6	4	12,5	100	500	ppm
205	bis(Chloromethyl)oxetane, 3,3-	78-71-7	0,4	1,25	2	75	mg/m3
206	Isopentane; (Ethyldimethylmethane; 2-Methyl-butane)	78-78-4	610	610	610	20 000	ppm
207	Isoprene	78-79-5	50	150	250	25 000	ppm
208	Isobutylamine	78-81-9	5	5	6	35	ppm
209	Isobutyronitrile	78-82-0	8	10	50	200	ppm
210	Isobutyl alcohol	78-83-1	100	150	250	1 600	ppm
211	Isobutyraldehyde	78-84-2	100	300	1 500	1 500	ppm
212	Methacrylaldehyde	78-85-3	0,125	0,4	2,5	12,5	ppm
213	Dichloropropane, 1,2-; (Propylene dichloride)	78-87-5	75	110	110	400	ppm
214	Dichloropropene, 2,3-	78-88-6	0,5	1,5	10	50	ppm
215	Propanediamine, 1,2-	78-90-0	7,5	25	200	500	mg/m3
216	Butyl alcohol, sec-; (sec-butanol)	78-92-2	100	150	1 500	2 000	ppm
217	Butanone, 2-; (MEK)	78-93-3	200	300	300	3 000	ppm
218	Methyl vinyl ketone; (3-Buten-2-one)	78-94-4	0,2	0,2	0,2	0,25	ppm
219	Chloroacetone	78-95-5	1	1	1	7,5	ppm
220	Lactonitrile	78-97-7	3,5	10	18	150	mg/m3
221	Dichloropropane, 1,1-	78-99-9	4	12,5	75	400	ppm
222	Trichloroethane, 1,1,2-	79-00-5	10	10	20	100	ppm
223	Trichloroethylene	79-01-6	100	100	500	5 000	ppm
224	Propionyl chloride	79-03-8	0,075	0,2	1,5	7,5	ppm
225	Chloroacetyl chloride	79-04-9	0,05	0,05	0,5	10	ppm
226	Acrylamide	79-06-1	0,3	0,3	60	60	mg/m3
227	Propionic acid	79-09-4	10	10	15	350	ppm
228	Acrylic acid	79-10-7	2	2	50	750	ppm
229	Chloroacetic acid	79-11-8	0,75	2,5	15	75	mg/m3
230	Glycolic acid	79-14-1	0,75	0,75	0,75	0,75	mg/m3
231	Thiosemicarbazide	79-19-6	0,075	0,2	1,5	4	mg/m3
232	Peroxyacetic acid; (Peracetic acid)	79-21-0	2	6	15	15	ppm
233	Methyl chloroformate; (Methyl chlorocarbonate)	79-22-1	0,02	0,06	0,466	4	ppm
234	Nitroethane	79-24-3	100	100	200	1 000	ppm

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No.	Chemical Name	CASRN	Rev. 19 Recommended TEELs				Units of original limits
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
235	Tetrabromoethane, 1,1,2,2-; (Acetylene tetrabromide)	79-27-6	1	1,25	5	8	ppm
236	Isobutyric acid	79-31-2	0,3	1	6	35	ppm
237	Tetrachloroethane, 1,1,2,2-	79-34-5	3	3	5	100	ppm
238	Chlorotrifluoroethylene	79-38-9	5	20	100	300	ppm
239	Methacrylic acid	79-41-4	20	20	40	125	ppm
240	Dimethyl carbamoyl chloride	79-44-7	0,2	0,6	4	100	ppm
241	Nitropropane, 2-	79-46-9	25	30	50	100	ppm
242	Phenaglycodol; (Ultran, or 2-p-chlorophenyl-3-methyl-2,3-butanediol)	79-93-6	10	30	50	350	mg/m3
243	Bisphenol A	80-05-7	10	30	50	500	mg/m3
244	Cumene hydroperoxide; (Isopropylbenzene hydroperoxide)	80-15-9	10	30	150	150	mg/m3
245	Methyllactic acid, 2-; (Ethyl 2-hydroxyisobutyrate)	80-55-7	15	50	400	500	mg/m3
246	Alpha-Pinene	80-56-8	0,00015	0,0005	0,0035	0,015	mg/m3
247	Methyl methacrylate	80-62-6	100	100	100	1 000	ppm
248	Methyl-2-chloroacrylate	80-63-7	0,05	0,15	1,01	7,5	ppm
249	Warfarin	81-81-2	0,1	0,3	20	20	mg/m3
250	C.I. Food Red 15; (FD&C Red No. 19)	81-88-9	0,4	1,25	7,5	50	mg/m3
251	Diphacinone; (Diphenadione)	82-66-6	0,15	0,5	0,9	500	mg/m3
252	Pentachloronitrobenzene	82-68-8	0,5	1,5	250	500	mg/m3
253	Acenaphthene; (1,3-Acenaphthalene)	83-32-9	0,4	1,25	7,5	250	mg/m3
254	Rotenone	83-79-4	5	5	7,5	500	mg/m3
255	Anthraquinone dye; (sans dye, see Hawley)	84-65-1	10	30	50	500	mg/m3
256	Diethyl phthalate; (Ethyl phthalate)	84-66-2	5	15	25	500	mg/m3
257	Dibutyl phthalate	84-74-2	5	15	250	500	mg/m3
258	Phenanthrene	85-01-8	0,4	1	7,5	300	mg/m3
259	Phthalic anhydride	85-44-9	12	12	30	60	mg/m3
260	Benzylbutylester phthalic acid; (Benzyl butyl phthalate)	85-68-7	5	15	500	500	mg/m3
261	Diphenylnitrosamine	86-30-6	7,5	25	150	500	mg/m3
262	Azinphos methyl	86-50-0	0,2	0,6	0,7	10	mg/m3
263	Amino-1,3-naphthalenedisulfonic acid, 7-	86-65-7	5	15	100	500	mg/m3
264	Fluorene, 9H-	86-73-7	7,5	25	150	500	mg/m3
265	Carbazole	86-74-8	0,75	2,5	15	75	mg/m3
266	Naphthaleneacetamide, 1-	86-86-2	6	20	150	500	mg/m3
267	Naphthylthiourea, alpha- (ANTU)	86-88-4	0,3	0,9	10	100	mg/m3
268	Xylidine, o-; (2,3-Xylidine)	87-59-2	0,5	10	10	50	ppm
269	Trichlorobenzene, 1,2,3-	87-61-6	6	15	125	500	mg/m3
270	Xylidine, 2,6-	87-62-7	6	20	125	350	mg/m3
271	Dichlorophenol, 2,6-	87-65-0	10	10	35	150	mg/m3
272	Hexachlorobutadiene	87-68-3	0,02	3	10	30	ppm
273	Tartaric acid	87-69-4	4	12,5	75	400	mg/m3

Table 3: Recommended TEELs Rev. 19 (by CASRN)

No.	Chemical Name	CASRN	Rev. 19 Recommended TEELs				Units of original limits
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
274	Pentachlorophenol	87-86-5	0,5	1,5	2,5	2,5	mg/m3
275	Trimethylaniline, 2,4,6-	88-05-1	0,125	0,4	2,9	40	mg/m3
276	Trichlorophenol, 2,4,6-	88-06-2	10	30	350	350	mg/m3
277	Nitrotoluene, o-	88-72-2	5	6	10	60	ppm
278	Nitroaniline, 2-; (o-Nitroaniline)	88-74-4	6	20	125	500	mg/m3
279	Nitrophenol, 2-; (o-Nitrophenol)	88-75-5	1,25	4	30	150	mg/m3
280	Dinoseb; (2-sec-Butyl-4,6-dinitrophenol)	88-85-7	4,5	4,5	4,5	10	mg/m3
281	Picric acid	88-89-1	0,1	0,3	0,5	75	mg/m3
282	Phthalic acid	88-99-3	0,03	0,1	0,6	500	mg/m3
283	Pyromellitic acid	89-05-4	1,25	3,5	25	125	mg/m3
284	Methyl-1-phenyl-2-pyrazolin-5-one, 3-	89-25-8	15	40	300	500	mg/m3
285	Anisidine, o-	90-04-0	0,5	1,5	2,5	50	mg/m3
286	Bromonaphthalene	90-11-9	10	30	50	350	mg/m3
287	Methylnaphthalene, 1-	90-12-0	6	20	500	500	mg/m3
288	Chloronaphthalene, 1- (alpha)	90-13-1	6	20	125	500	mg/m3
289	Phenylphenol, 2-; (tert-Butylbenzene)	90-43-7	25	75	500	500	mg/m3
290	Tris(dimethylaminomethyl)phenol, 2,4,6-	90-72-2	5	15	100	500	mg/m3
291	Michler's ketone; (4,4'-bis(dimethylamino)-benzophenone)	90-94-8	1	3,5	25	40	mg/m3
292	Toluene 2,6-diisocyanate	91-08-7	0,005	0,01	0,15	0,6	ppm
293	Decahydronaphthalene, trans-; (Decalin; cis- and trans-)	91-17-8	0,5	1,5	10	75	ppm
294	Naphthalene	91-20-3	10	15	35	250	ppm
295	Quinoline	91-22-5	0,2	0,6	5	25	ppm
296	Methylnaphthalene, 2-	91-57-6	6	20	125	500	mg/m3
297	Chloronapthalene,2- (beta)	91-58-7	0,2	0,6	1	500	mg/m3
298	Naphthylamine, beta-	91-59-8	2,5	7,5	50	300	mg/m3
299	Diethylaniline, n,n-	91-66-7	3	10	60	350	mg/m3
300	Dichlorobenzidene 3,3'-	91-94-1	0,2	0,6	4	200	ppm
301	Diphenyl; (Biphenyl)	92-52-4	1	3,9	6,5	100	mg/m3
302	Aminodiphenyl, p-	92-67-1	0,5	1,5	10	200	mg/m3
303	Diphenyloxazole, 2,5-	92-71-7	10	30	50	300	mg/m3
304	Benzidene	92-87-5	0,15	0,5	3,5	125	mg/m3
305	Nitrobiphenyl, 4- ; (p-Nitrobiphenyl)	92-93-3	0,25	0,75	5	500	mg/m3
306	Terphenyl; p-	92-94-4	5	5	9	500	mg/m3
307	Trichlorophenoxy)propionic acid, 2-; (2,4,5-Silvex)	93-72-1	10	30	50	250	mg/m3
308	Trichlorophenoxyacetic acid, 2,4,5-; (2,4,5-T)	93-76-5	10	30	50	250	mg/m3
309	Benzoyl peroxide	94-36-0	5	5	15	500	mg/m3
310	Safrol; (1,3-Benzodioxole, 5-(2-propenyl)-)	94-59-7	5	15	100	500	mg/m3
311	Dichlorophenoxy acetic acid, 2,4-; (2,4- D salts and esters)	94-75-7	10	10	40	100	mg/m3
312	Indene	95-13-6	10	10	50	300	ppm

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No.	Chemical Name	CASRN	Rev. 19 Recommended TEELs				Units of original limits
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
313	Dimethyglyoxime; (Diacetyl dioxime)	95-45-4	10	30	50	200	mg/m3
314	Xylene, o-	95-47-6	100	150	200	900	ppm
315	Methylphenol, 2-; (o-Cresol)	95-48-7	5	5	25	250	ppm
316	Chlorotoluene, 2-; (o-Chlorotoluene)	95-49-8	50	75	250	1 500	ppm
317	Dichlorobenzene, o-	95-50-1	25	50	50	200	ppm
318	Toluidene, o-	95-53-4	5	6	10	50	ppm
319	Phenylenediamine, 1,2-; (o-Phenylenediamine)	95-54-5	0,1	0,3	50	500	mg/m3
320	o-Aminophenol; (Aminophenol, o-)	95-55-6	0,5	1,5	10	500	mg/m3
321	Chlorophenol, o-	95-57-8	0,4	1	7,5	50	ppm
322	Trimethylbenzene, 1,2,4-; (Pseudocumene)	95-63-6	25	36,6	36,6	1 500	ppm
323	Toluenediamine, 2,4-; (2,4-Diaminetoluene)	95-80-7	4	12,5	75	125	mg/m3
324	Tetrachlorobenzene, 1,2,4,5-	95-94-3	10	30	50	500	mg/m3
325	Trichlorophenol, 2,4,5-	95-95-4	10	30	50	350	mg/m3
326	Styrene oxide; (1,2-Epoxyethylbenzene)	96-09-3	4	12,5	50	50	ppm
327	Chlorodiethylaluminum; (Diethylaluminum chloride)	96-10-6	7,5	22,5	37,5	500	mg/m3
328	Dibromo-3-chloropropane, 1,2-; (DBCP)	96-12-8	0,001	0,003	0,005	15	ppm
329	Trichloropropane, 1,2,3-	96-18-4	10	10	10	100	ppm
330	Oxime 2-butanone; (Ethyl methyl ketoxime)	96-29-7	15	40	100	100	ppm
331	Methyl acrylate	96-33-3	2	2	7,5	150	ppm
332	Ethylenethiourea; (2-Imidazolidinethione)	96-45-7	3,5	10	75	500	mg/m3
333	Dihydro 2(3H)furanone; (4-Butanolide)	96-48-0	2	6	40	500	mg/m3
334	Soman; (3,3-Dimethyl-2-butanol methylphosphonofluoridate, GD)	96-64-0	0,00003	0,00009	0,0015	0,04	mg/m3
335	Bis(3-tert-butyl-4-hydroxy-6-methyl-phenyl) sulfide	96-69-5	15	30	50	500	mg/m3
336	Di-isopropylaminoethanol, 2-; (N,N-Diisopropylehanolamine)	96-80-0	2,5	7,5	50	250	mg/m3
337	Chloro-2,4-dinitrobenzene, 1-	97-00-7	3	10	60	350	mg/m3
338	Dinitroaniline, 2,4-	97-02-9	0,035	0,1	0,75	12,5	mg/m3
339	Sulfosalicylic acid	97-05-2	10	30	200	500	mg/m3
340	Dichlorophene	97-23-4	6	15	125	500	mg/m3
341	C.I. Solvent Yellow 3	97-56-3	2	6	40	500	mg/m3
342	Ethyl methacrylate, (2-Methyl-2-propenoic acid, ethyl ester)	97-63-2	0,6	1,5	12,5	750	ppm
343	Disulfiram	97-77-8	2	2	3	125	mg/m3
344	Tetramethyl-1,3-butanediamine, n,n,n',n'-; (Tetramethyl butanediamine)	97-84-7	2	6	40	200	mg/m3
345	Isobutyl isobutyrate	97-85-8	150	500	500	500	mg/m3
346	Furfuryl alcohol	98-00-0	15	15	15	75	ppm
347	Furancarboxyaldehyde, 2-; (Furfural)	98-01-1	2	2	10	100	ppm
348	Benzenearsonic acid; (Phenylarsonic acid)	98-05-5	0,27	0,27	0,27	0,27	mg/m3
349	Butylbenzene, tert-	98-06-6	7,5	20	150	750	ppm
350	Benzyl trichloride; (Trichloromethylbenzene)	98-07-7	0,1	0,1	6	25	mg/m3
351	Benzotrifluoride	98-08-8	6	15	30	500	mg/m3

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No.	Chemical Name	CASRN	Rev. 19 Recommended TEELs				Units of original limits
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
352	Benzenesulfonic acid chloride; (Benzenesulfonyl chloride)	98-09-9	0,5	1,5	200	200	mg/m3
353	Trichlorophenylsilane	98-13-5	0,15	0,4	3,3	40	mg/m3
354	Trifluoromethyl)benzenamine, 3-(; (m-Aminobenzyl fluoride)	98-16-8	0,75	2,5	4,4	150	mg/m3
355	Butylpyrocatechol, 4-tert-; (4-tert-Butylcatechol)	98-29-3	2	6	10	500	mg/m3
356	Butylcyclohexanone, p-tert-	98-53-3	20	60	400	500	mg/m3
357	Phenylboric Acid; (Benzeneboronic acid)	98-80-6	3	7,5	60	300	mg/m3
358	Cumene; (Isopropyl benzene)	98-82-8	50	50	50	900	ppm
359	Acetophenone	98-86-2	10	30	50	350	mg/m3
360	Benzal chloride	98-87-3	0,4	1,25	2,3	500	mg/m3
361	Benzoyl chloride	98-88-4	0,5	0,5	0,5	60	ppm
362	Nitrobenzene	98-95-3	1	3	20	200	ppm
363	Nitrotoluene, m-	99-08-1	5	6	10	200	ppm
364	Nitroaniline, 3-; (m-Nitroaniline)	99-09-2	0,75	2,5	15	200	mg/m3
365	Dibromo-4-nitrophenol, 2,6-	99-28-5	0,04	0,1	0,75	4	ppm
366	Dichloran; (2,6-Dichloro-4-nitroaniline; Resisan)	99-30-9	0,005	0,015	0,125	500	mg/m3
367	Trinitrobenzene 1,3,5-	99-35-4	10	30	50	125	mg/m3
368	Methyl-5-nitroaniline, 2-; (5-Nitro-o-toluidine; Benzenamine, 2-methyl-5-nitro-)	99-55-8	7,5	20	150	250	mg/m3
369	Dinitrobenzene, m-	99-65-0	1	3	5	50	mg/m3
370	Dimethyl-p-phenylenediamine, N,N-	99-98-9	0,025	0,075	0,13	1	mg/m3
371	Nitrotoluene, p-	99-99-0	5	6	10	200	ppm
372	Chloronitrobenzene, p- ; (p-nitrochlrobenzene)	100-00-5	1	1,92	30	100	mg/m3
373	Nitroaniline, p-	100-01-6	6	9	150	300	mg/m3
374	Nitrophenol, 4-; (p-Nitrophenol)	100-02-7	0,75	2,5	15	75	mg/m3
375	Dimethylamino-benzaldehyde, p-	100-10-7	7,5	25	150	250	mg/m3
376	Benzene, 1-(chloromethyl)-4-nitro-; (p-Nitrobenzyl chloride)	100-14-1	5	15	28	125	mg/m3
377	Bis(1-methylethyl)benzene, 1-4; (p- or 1,4-Diisopropylbenzene)	100-18-5	12,5	40	300	500	mg/m3
378	Terephthaloyl chloride	100-20-9	0,75	2,5	20	500	mg/m3
379	Dinitrobenzene, p-; (Piperidine, 1-nitroso-)	100-25-4	1	3	5	50	mg/m3
380	Ethyl benzene	100-41-4	100	125	125	800	ppm
381	Styrene	100-42-5	50	50	250	1 000	ppm
382	Benzyl chloride	100-44-7	1	1	10	25	ppm
383	Benzonitrile	100-47-0	2,5	7,5	60	300	mg/m3
384	Benzyl alcohol	100-51-6	4	12,5	100	200	ppm
385	Benzaldehyde	100-52-7	6	15	125	500	mg/m3
386	Methylaniline, n-	100-61-8	1,5	1,5	2,5	100	ppm
387	Phenylhydrazine	100-63-0	0,1	0,3	0,5	15	ppm
388	Hexamethylenetetraamine; (Methenamine)	100-97-0	10	30	50	500	mg/m3
389	Methylene bis(2-chloroaniline), 4,4'-; (MBOCA)	101-14-4	0,01	0,03	0,5	40	ppm
390	Bromophenyl phenyl ether, 4-	101-55-3	2	6	40	200	mg/m3

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			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
391	Methylene diphenyl diisocyanate (Diphenylmethane diisocyanate; MDI)	101-68-8	0,05	0,2	2	25	mg/m3
392	Methylenedianiline, 4,4'-	101-77-9	0,01	0,1	0,5	15	ppm
393	Diaminodiphenyl ether, 4,4'-; (4,4'-Oxydianiline)	101-80-4	0,5	1,5	10	300	mg/m3
394	Diphenylguanidine, 1,3-	102-06-7	0,2	0,6	4	125	mg/m3
395	Isocyanic acid-3,4-dichlorophenyl ester; (3,4-Dichlorophenyl isocyanate)	102-36-3	2,5	7,5	14	500	mg/m3
396	Triethanolamine; (Trihydroxytriethylamine)	102-71-6	5	5	20	500	mg/m3
397	Triacetin; (Triacetyl glycerin)	102-76-1	12,5	35	250	500	mg/m3
398	Di-2-ethylhexyl adipate	103-23-1	50	150	500	500	mg/m3
399	Ethanediyl)bis-benzene, 1,1'- (1,2-; (Bibenzyl)	103-29-7	15	50	400	500	mg/m3
400	Propylbenzene, n- (Isocumene)	103-65-1	30	75	600	3 000	ppm
401	Phenylthiourea; (1-phenyl-2-thiourea)	103-85-5	3	3	3	3	mg/m3
402	Nonyl phenol, p-	104-40-5	6	20	125	500	mg/m3
403	Phenylene diisocyanate, 1,4-	104-49-4	3,5	10	35	35	mg/m3
404	Butylbenzene, n-; (1-Phenylbutane)	104-51-8	7,5	20	150	750	ppm
405	Ethyl-1-hexanol, 2-	104-76-7	5	15	100	500	mg/m3
406	Nitrosophenol, p-	104-91-6	2	6	40	200	mg/m3
407	Anisidine, p-	104-94-9	0,5	1,5	2,5	50	mg/m3
408	Butyl acetate, sec-	105-46-4	200	200	300	1 500	ppm
409	Diethylthiourea, n,n'-	105-55-5	0,6	1,5	12,5	125	mg/m3
410	Caprolactam (dust)	105-60-2	1	3	3	20	mg/m3
411	Diisopropyl peroxydicabonate	105-64-6	7,5	25	150	500	mg/m3
412	Dimethylphenol, 2,4-; (2,4-Xylenol)	105-67-9	2	6	50	500	mg/m3
413	Dilauroyl peroxide	105-74-8	0,02	0,06	0,4	2	mg/m3
414	Quinhydrone	106-34-3	0,3	0,75	6	30	mg/m3
415	Ethyl butyl ketone; (3-Heptanone)	106-35-4	50	75	200	1 000	ppm
416	Bromochlorobenzene, p-	106-39-8	10	30	50	250	mg/m3
417	Xylene, p-	106-42-3	100	150	200	900	ppm
418	Chlorotoluene, 4-; (p-Tolyl chloride)	106-43-4	25	75	500	2 500	ppm
419	Methylphenol, 4-; (p-Cresol)	106-44-5	5	5	25	250	ppm
420	Dichlorobenzene, p-	106-46-7	75	110	110	150	ppm
421	Chloroaniline, p-	106-47-8	10	30	50	300	mg/m3
422	Toluidine, p-; (4-Methylbenzenamine)	106-49-0	2	6	10	300	mg/m3
423	Phenylenediamine, p-	106-50-3	0,1	0,3	0,5	25	mg/m3
424	Benzoquinone, p-; (Quinone)	106-51-4	0,1	0,3	0,5	22,6	ppm
425	Butanedioic acid, dimethyl ester; (Succinic acid, dimethyl ester)	106-65-0	3,5	10	75	350	ppm
426	Ethyl amyl ketone; (3-Octanone)	106-68-3	25	25	25	100	ppm
427	Epoxybutane, 1,2- ; (1,2-Butylene oxide)	106-88-7	40	100	400	400	ppm
428	Epichlorohydrin	106-89-8	2	2	20	100	ppm
429	Ethylene dibromide	106-93-4	20	30	30	100	ppm

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			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
430	Bromopropane, 1-	106-94-5	300	1 000	2 500	2 500	ppm
431	Allyl Bromide; (3-Bropmopropene)	106-95-6	4	12,5	75	400	ppm
432	Propargyl bromide	106-96-7	0,03	0,03	0,03	20	mg/m3
433	Butane	106-97-8	800	2 400	4 000	19 000	ppm
434	Butene, 1-; (Butylene)	106-98-9	400	1 200	2 000	5,00E+05	ppm
435	Butadiene,1,3-	106-99-0	2	10	200	5 000	ppm
436	Butene, 2-	107-01-7	3	7,5	60	300	ppm
437	Acrolein	107-02-8	0,1	0,1	0,5	3	ppm
438	Allyl chloride	107-05-1	1	3	40	300	ppm
439	Ethylene dichloride; (1,2-Dichloroethane)	107-06-2	50	50	200	300	ppm
440	Ethylene chlorohydrin	107-07-3	1	1	7	7	ppm
441	Propanamine, 1-; (Propylamine)	107-10-8	15	50	250	250	ppm
442	Allylamine	107-11-9	0,06	0,2	1,37	30	ppm
443	Propionitrile; (Propiononitrile)	107-12-0	6	15	15	15	ppm
444	Acrylonitrile	107-13-1	2	10	35	75	ppm
445	Ethylenediamine, 1,2-	107-15-3	10	10	20	1 000	ppm
446	Formaldehyde cyanohydrin; (Hydroxyacetonitrile; Glycolonitrile)	107-16-4	0,125	0,35	2,57	4	ppm
447	Allyl alcohol	107-18-6	2	4	15,2	20	ppm
448	Propargyl alcohol	107-19-7	1	1,5	5	60	ppm
449	Chloroacetaldehyde	107-20-0	1	1	21,5	45	ppm
450	Ethylene glycol	107-21-1	10	20	40	60	ppm
451	Ethyl mercury chloride; (Chloroethyl mercury)	107-27-7	0,0125	0,04	0,05	2,5	mg/m3
452	Chloromethyl methyl ether	107-30-2	0,2	0,6	1	10	ppm
453	Methyl formate; (Formic acid, methyl ester)	107-31-3	100	150	500	4 500	ppm
454	Hexylene glycol	107-41-5	10	25	25	350	ppm
455	Isopropyl methanefluorophosphonate; (Sarin; GB)	107-44-8	0,0025	0,0075	0,05	0,6	mg/m3
456	Hexamethyldisiloxane	107-46-0	40	125	300	300	ppm
457	Tetraethyl pyrophosphate; (TEPP)	107-49-3	0,05	0,15	1	5	mg/m3
458	Dibutyl phosphate; (TBP)	107-66-4	1	2	5	30	ppm
459	Methyl pentane, 2- (Isohexane)	107-83-5	500	510	510	2 500	ppm
460	Pentanone, 2-	107-87-9	200	250	250	1 500	ppm
461	Cyanoacetamide	107-91-5	6	20	150	500	mg/m3
462	Butyric acid	107-92-6	15	40	250	250	ppm
463	Propylene glycol monomethyl ether; (UCAR TRIOL HG-170)	107-98-2	100	150	300	750	ppm
464	Nitropropane, 1-	108-03-2	25	25	25	1 000	ppm
465	Vinyl acetate	108-05-4	5	5	75	500	ppm
466	Methyl isobutyl ketone; (Hexone)	108-10-1	75	75	250	500	ppm
467	Diisopropylamine	108-18-9	5	6	25	200	ppm
468	Isopropyl acetate	108-21-4	250	310	310	1 800	ppm

Table 3: Recommended TEELs Rev. 19 (by CASRN)

No.	Chemical Name	CASRN	Rev. 19 Recommended TEELs				Units of original limits
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
469	Isopropyl chloroformate; (Isopropyl chlorocarbonate)	108-23-6	0,75	2,5	20	25	ppm
470	Acetic Anhydride	108-24-7	5	5	5	200	ppm
471	Maleic anhydride	108-31-6	1	3	5	10	mg/m3
472	Propylene carbonate, 1,2-	108-32-7	0,125	0,35	2,5	12,5	mg/m3
473	Bromochlorobenzene, m-	108-37-2	10	30	50	250	mg/m3
474	Xylene, m-	108-38-3	100	150	200	900	ppm
475	Methylphenol, 3-; (m-Cresol)	108-39-4	5	5	25	250	ppm
476	Toluenethiol, m-	108-40-7	0,2	0,6	4	20	mg/m3
477	Chlorophenol, m-	108-43-0	0,75	2	15	250	mg/m3
478	Toluidine, m-	108-44-1	2	2	7,5	40	ppm
479	Phenylenediamine, 1,3-; (m-Phenylenediamine)	108-45-2	0,1	0,3	5	125	mg/m3
480	Resorcinol	108-46-3	10	20	20	20	ppm
481	Dimethylpyridine, 2,4-; (2,4-Lutidine)	108-47-4	0,15	0,5	4	20	ppm
482	Divinylbenzene, m-; (m-Vinylstyrene)	108-57-6	10	10	15	75	ppm
483	Dichloroisopropyl ether	108-60-1	3,5	10	75	350	ppm
484	Mesitylene; (1,3,5-Trimethyl benzene)	108-67-8	25	25	25	500	ppm
485	Trimethylpyridine, 2,4,6-	108-75-8	1,5	5	35	150	ppm
486	Melamine	108-78-1	0,004	0,0125	0,075	75	mg/m3
487	Bromobenzene; (Phenyl bromide)	108-86-1	0,75	2,5	15	350	ppm
488	Methylcyclohexane	108-87-2	500	1 200	1 200	1 200	ppm
489	Toluene	108-88-3	50	50	300	1 000	ppm
490	Chlorinated benzene; (Chlorobenzene)	108-90-7	30	30	500	1 000	ppm
491	Cyclohexylamine	108-91-8	10	10	40	200	ppm
492	Cyclohexanol	108-93-0	50	50	50	400	ppm
493	Cyclohexanone; (Ketohexamethylene)	108-94-1	50	50	50	700	ppm
494	Phenol	108-95-2	5	10	50	200	ppm
495	Benzenethiol; (Thiophenol; Phenyl mercaptan)	108-98-5	0,311	0,4	3	3,5	ppm
496	Methyl pyridine, 3-: (3-Picoline)	108-99-6	2	5	10	1 500	ppm
497	Methylpyridine, 2-; (2-Picoline)	109-06-8	2	2	5	300	ppm
498	Polyester; (Methacrylic acid diester with triethylene glycol)	109-16-0	10	30	50	500	mg/m3
499	Butanoic acid, butyl ester; (n-Butyl n-butanoate)	109-21-7	1,5	5	35	150	ppm
500	Propyl chloroformate; (Propyl chlorocarbonate)	109-61-5	0,4	1,25	2	60	ppm
501	Dibromopropane, 1,3-	109-64-8	2	6	40	200	mg/m3
502	Pentane, n-	109-66-0	610	610	610	1 500	ppm
503	Pentene, 1-	109-67-1	300	750	6 000	30 000	ppm
504	Butylamine, n-	109-73-9	5	5	50	300	ppm
505	Butanenitrile; (Butyronitrile)	109-74-0	8	24	40	50	ppm
506	Propanediamine, 1,3-	109-76-2	0,2	0,6	4	40	ppm
507	Propanedinitrile; (Malononitrile)	109-77-3	8	8	8	25	mg/m3

Table 3: Recommended TEELs Rev. 19 (by CASRN)

No.	Chemical Name	CASRN	Rev. 19 Recommended TEELs				Units of original limits
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
508	Butanethiol; (n-Butyl mercaptan)	109-79-5	0,5	1,5	50	500	ppm
509	Methoxyethylamine	109-85-3	0,5	1,5	10	50	ppm
510	Ethylene glycol monomethyl ether; (Methyl Cellosolve(R))	109-86-4	5	5	5	1 700	ppm
511	Methylal; (Dimethoxymethane)	109-87-5	1 000	2 200	2 200	2 200	ppm
512	Diethylamine	109-89-7	15	15	25	200	ppm
513	Vinyl ethyl ether; (Ethoxy ethene)	109-92-2	15	50	350	1 500	ppm
514	Ethyl nitrite	109-95-5	0,6	2	12,5	60	ppm
515	Tetrahydrofuran	109-99-9	200	250	1 000	2 000	ppm
516	Furan	110-00-9	0,2	0,6	4	7,5	ppm
517	Dibutyl peroxide, tert-	110-05-4	1,25	4	25	400	ppm
518	Methyl-2-hexanone, 5-: (Methyl isoamyl ketone)	110-12-3	100	150	1 500	1 500	ppm
519	Maleic acid	110-16-7	10	10	50	300	mg/m3
520	Fumaric acid	110-17-8	40	100	500	500	mg/m3
521	Isobutyl acetate	110-19-0	150	150	250	1 300	ppm
522	Diacetyl peroxide; (Acetyl peroxide)	110-22-5	7,5	20	150	500	mg/m3
523	Myristic acid, isopropyl ester; (Tetradecanoic acid, isopropyl; Isopropyl myristate),	110-27-0	200	500	500	500	mg/m3
524	Myristic acid (tetradecanoic acid), butyl ester	110-36-1	3	7,5	60	300	ppm
525	Methyl n-amyl ketone	110-43-0	100	100	125	800	ppm
526	Isoamylnitrite; (Isopentyl nitrite)	110-46-3	3	7,5	60	300	ppm
527	Hexane	110-54-3	50	150	250	1 100	ppm
528	Trans-1,4-dichlorobutene; (2-Butylene dichloride)	110-57-6	0,04	0,125	0,861	7,5	ppm
529	Amylamine, n-; (1-Pentylamine)	110-58-7	0,3	0,75	6	30	mg/m3
530	Pentanenitrile	110-59-8	1,5	4	25	25	ppm
531	Butyne-1,4-diol, 2-; (1,4-Butynediol)	110-65-6	0,35	1	20	30	mg/m3
532	Dimethoxyethane	110-71-4	3,5	10	75	1 000	ppm
533	Chloroethyl vinyl ether, 2-; (Ethene, 2-chloroethoxy-)	110-75-8	0,25	0,75	5	25	ppm
534	Ethoxyethanol, 2-	110-80-5	0,5	15	250	500	ppm
535	Cyclohexane	110-82-7	300	900	1 300	1 300	ppm
536	Cyclohexene	110-83-8	300	300	500	2 000	ppm
537	Piperazine	110-85-0	2	6	40	500	mg/m3
538	Pyridine	110-86-1	5	15	25	1 000	ppm
539	Piperidine	110-89-4	0,3	0,75	6,32	250	ppm
540	Morpholine	110-91-8	20	30	30	1 400	ppm
541	Diisobutylamine	110-96-3	0,2	0,6	4	20	ppm
542	Oxydiacetic acid; (Oxodiacetic acid)	110-99-6	2	6	40	200	mg/m3
543	Squalene; (Hexamethyl-tetracosahexane)	111-02-4	20	60	400	500	mg/m3
544	Octanone, 2-	111-13-7	60	200	200	500	mg/m3
545	Ethoxyethylacetate, 2-	111-15-9	0,5	15	25	500	ppm
546	Hexanol, n-; (n-Hexyl alcohol)	111-27-3	0,75	2	15	75	ppm

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No.	Chemical Name	CASRN	Rev. 19 Recommended TEELs				Units of original limits
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
547	Gluteraldehyde	111-30-8	0,05	0,05	5	15	ppm
548	Butyl isocyanate, n-	111-36-4	0,0035	0,01	0,05	1	ppm
549	Diethylenetriamine	111-40-0	1	1	2	100	ppm
550	Diethanolamine	111-42-2	2	6	10	300	mg/m3
551	Dichloroethyl ether; (Oxybis(2-chloro-ethane), 1-1'-)	111-44-4	5	10	25,7	100	ppm
552	Diethylene glycol	111-46-6	2,31	6,92	11,5	100	ppm
553	Thiodiglycol	111-48-8	25	75	500	500	mg/m3
554	Caprylyl chloride; (Octanoyl chloride)	111-64-8	10	10	10	10	mg/m3
555	Octane, n-	111-65-9	300	300	400	1 000	ppm
556	Octene, 1-	111-66-0	10	30	50	250	mg/m3
557	Adiponitrile	111-69-3	2	3,85	4	150	ppm
558	Heptanol, 1-; (Heptyl alcohol)	111-70-6	3,5	10	500	500	mg/m3
559	Butoxyethanol, 2-; (Glycol ether EB)	111-76-2	50	50	100	700	ppm
560	Methoxyethoxy)-ethanol, 2-(2-; (Diethylene glycol monomethyl ether)	111-77-3	0,35	0,35	0,35	0,35	ppm
561	Nonane (Shell sol 140)	111-84-2	200	600	1 000	1 250	ppm
562	Octyl alcohol; (n-octanol)	111-87-5	3,5	10	350	500	mg/m3
563	Ethoxyethoxy-)ethanol, 2-(2-; (Carbitol cellosolve; Glycol ether DE)	111-90-0	25	75	125	400	ppm
564	Dichloromethoxy ethane; (bis(2-Chloroethoxy) methane)	111-91-1	0,6	2	6	6	ppm
565	Di-n-butylamine	111-92-2	0,5	1,5	10	50	ppm
566	Butoxyethanol acetate; 2- (Ethylene glycol monobutyl ether acetate)	112-07-2	5	15	25	150	ppm
567	Undecanone, 2-; (Methyl nonyl ketone)	112-12-9	0,2	0,6	4	300	ppm
568	Diglycol monoethyl ether acetate; (Carbitol acetate)	112-15-2	40	125	500	500	mg/m3
569	Triethylenetetramine	112-24-3	15	50	350	500	mg/m3
570	Triethylene glycol	112-27-6	300	500	500	500	mg/m3
571	Decanal	112-31-2	2,5	7,5	50	250	ppm
572	Butoxyethoxy)-ethanol, 2-(2-; (Diethylene glycol monobutyl ether)	112-34-5	100	150	500	500	mg/m3
573	Triethylene glycol monomethyl ether	112-35-6	40	125	500	500	mg/m3
574	Bis(2-ethoxyethyl) ether; (Diethyl carbitol)	112-36-7	75	250	500	500	mg/m3
575	Dodecane	112-40-3	0,4	1,25	7,5	125	ppm
576	Dodecyl alcohol	112-53-8	0,5	1,5	10	500	mg/m3
577	Butoxy ethoxy)ethyl thiocyanate, 2-(2-	112-56-1	0,35	1	7,5	40	mg/m3
578	Tetraethylenepentamine	112-57-2	0,75	2,5	15	75	mg/m3
579	Octadecanol, 1-	112-92-5	2,5	7,5	50	750	ppm
580	Propoxur	114-26-1	0,5	1,5	20	20	mg/m3
581	Azaserine; (L-Serine,diazoacetate (ester))	115-02-6	0,0125	0,04	0,25	75	mg/m3
582	Propylene; (1-Propene)	115-07-1	24 000	24 000	24 000	24 000	ppm
583	Methyl ether; (Dimethyl ether)	115-10-6	1 000	3 000	50 000	60 000	ppm
584	Methyl-propene, 2- (Isobutene)	115-11-7	1 000	3 000	20 000	1,00E+05	ppm
585	Trichloroethylsilane; (Ethyl trichlorosilane)	115-21-9	0,02	0,06	0,449	6	ppm

Table 3: Recommended TEELs Rev. 19 (by CASRN)

No.	Chemical Name	CASRN	Rev. 19 Recommended TEELs				Units of original limits
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
586	Octafuorocyclobutane; (Cyclooctafluorbutane; Freon C-318)	115-25-3	25 000	75 000	3,00E+05	3,00E+05	ppm
587	Dimefox; (bis(Dimethylamido)fluoro phosphate)); (Phosphorodithioate)	115-26-4	0,2	0,6	1	1	mg/m3
588	Endosulfan	115-29-7	0,1	0,3	0,8	35	mg/m3
589	Bromocresol purple	115-40-2	10	30	50	250	mg/m3
590	Pentaerythritol	115-77-5	15	30	50	500	mg/m3
591	Tributyl(2,4-dichlorobenzyl)phosphonium chloride	115-78-6	0,75	2	15	75	mg/m3
592	Triphenyl phosphate	115-86-6	3	9	150	500	mg/m3
593	Fensulfothion	115-90-2	0,1	0,3	2	12,5	mg/m3
594	Carbanolate (propanal,-); (Aldecarb; Methyl-2-(methylthio) propanalde-hyde oxime, 2-)	116-06-3	0,07	0,21	0,3	0,3	mg/m3
595	Tetrafluoroethylene	116-14-3	2	200	1 000	10 000	ppm
596	Hexafluoropropylene; (Hexafluoropropene)	116-15-4	3,5	10	50	500	ppm
597	Dihydroxyanthraquinone, 1,8-	117-10-2	25	75	200	200	mg/m3
598	Aminoanthraquinone, 2-	117-79-3	7,5	25	150	500	mg/m3
599	Di-sec-octylphthalate	117-81-7	5	10	25	500	mg/m3
600	Dioctyl phthalate, n-;	117-84-0	15	50	400	500	mg/m3
601	Hexachlorobenzene	118-74-1	0,002	0,006	1	200	mg/m3
602	Trinitrotoluene, 2,4,6-	118-96-7	1,5	1,5	1,5	500	mg/m3
603	Methyl salicylate	119-36-8	0,125	0,4	2,5	12,5	ppm
604	Isopropylmethylpyrazolyl dimethylcarbamate; (Isolan)	119-38-0	1	3,5	5,6	5,6	mg/m3
605	Nitrodiphenylamine, 2-	119-75-5	30	100	500	500	mg/m3
606	Dimethoxybenzidene 3,3'-; (o-Dianisidine)	119-90-4	1,5	5	35	500	mg/m3
607	Dimethylbenzidene 3,3'-; (o-Tolidine)	119-93-7	0,1	0,3	2	100	mg/m3
608	Anthracene	120-12-7	2	6	40	150	mg/m3
609	Bis(2-hydroxyethyl)dodecan amide, N,N-	120-40-1	0,004	0,01	0,075	100	ppm
610	Catechol	120-80-9	5	15	25	25	ppm
611	Trichlorobenzene,1,2,4-	120-82-1	5	5	5	40	ppm
612	Dichlorophenol, 2,4-	120-83-2	10	30	50	250	mg/m3
613	Dinitrotoluene 2,4-	121-14-2	0,2	0,6	10	50	mg/m3
614	Triethylamine	121-44-8	1	3	3	200	ppm
615	Trimethyl phosphite; (TMP)	121-45-9	2	6	10	750	ppm
616	Dimethylaniline, N,N-	121-69-7	5	10	10	100	ppm
617	Nitrochlorobenzene; (Chloronitrobenzene, m-; 3-Nitrochlorobenzene)	121-73-3	0,06	0,2	1,25	150	mg/m3
618	Malathion	121-75-5	15	30	250	250	mg/m3
619	Cyclotrinitraminemethylene; (RDX or Cyclonite)	121-82-4	0,5	3	3	40	mg/m3
620	Benzyl dimethyl ammonium chloride; (Dimethyloctadecylbenzylammonium chloride)	122-19-0	5	15	100	500	mg/m3
621	Diphenylamine	122-39-4	10	30	125	125	mg/m3
622	Triethyl phosphite	122-52-1	2	6	40	200	ppm
623	Diphenylhydrazine, 1,2,3-	122-66-7	10	30	50	125	mg/m3
624	Dipropyl ketone; (4-Heptanone)	123-19-3	50	50	60	350	ppm

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No.	Chemical Name	CASRN	Rev. 19 Recommended TEELs				Units of original limits
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
625	Butanedioic acid, diethyl ester; (Succinic acid, diethyl ester)	123-25-1	5	15	100	500	ppm
626	Hydroquinone	123-31-9	2	3	20	50	mg/m3
627	Maleic hydrazide; (3,6-Pyridazinedione,1,2-dihydro-)	123-33-1	0,6	2	12,5	500	mg/m3
628	Propionaldehyde	123-38-6	30	75	500	500	mg/m3
629	Hydroxy-4-methyl-2-pentanone, 4-; (Diacetone alcohol)	123-42-2	50	50	50	1 800	ppm
630	Isoamyl alcohol (primary)	123-51-3	100	125	125	500	ppm
631	Propionic anhydride	123-62-6	10	30	200	500	mg/m3
632	Paraldehyde	123-63-7	10	30	50	500	mg/m3
633	Butyraldehyde	123-72-8	25	25	25	2 000	ppm
634	Crotonaldehyde, (E)-	123-73-9	0,6	2	14	50	ppm
635	Pyrrolidine	123-75-1	5	15	100	500	mg/m3
636	Azodicarbamide; (Azodicarbonamide)	123-77-3	40	125	200	200	mg/m3
637	Butyl acetate, n-	123-86-4	5	5	200	3 000	ppm
638	Diethyleneoxide, 1,4-; (1,4-Dioxane)	123-91-1	100	100	100	500	ppm
639	Isoamyl acetate; (Isopentyl acetate)	123-92-2	100	100	200	1 000	ppm
640	Adipic acid	124-04-9	5	5	5	125	mg/m3
641	Octanenitrile	124-12-9	1,5	4	30	150	ppm
642	Octanal; (1-Octanol)	124-13-0	20	60	500	500	mg/m3
643	Decane	124-18-5	0,4	1,25	10	5 000	ppm
644	Nonanal	124-19-6	12,5	40	300	500	mg/m3
645	Carbon dioxide	124-38-9	5 000	30 000	30 000	40 000	ppm
646	Dimethylamine	124-40-3	10	15	100	500	ppm
647	Sodium methylate	124-41-4	7,5	25	150	500	mg/m3
648	Dibromochloromethane; (Chlorodibromomethane)	124-48-1	2	6	40	150	mg/m3
649	Sodium cacodylate; (Sodium dimethylarsenate)	124-65-2	1	3	40	500	mg/m3
650	Isobutanol-2-amine	124-68-5	0,03	0,075	0,6	500	mg/m3
651	Dibromotetrafluoroethane; (Halon 2402)	124-73-2	150	500	3 500	15 000	ppm
652	Picrotoxin	124-87-8	3	7,5	15	15	mg/m3
653	Bromo-1-chloro-5,5-dimethylhydantoin, 3-; (Bromochlorodimethylimidazokidinedione)	126-06-7	10	10	50	250	mg/m3
654	Tributyl phosphate	126-73-8	0,459	0,6	1	30	ppm
655	Tetramethyl-5-decyn-4,7-diol, 2,4,7,9-	126-86-3	10	30	50	250	mg/m3
656	Methacrylonitrile; (Methylacrylonitrile)	126-98-7	1	1	5	35	ppm
657	Chloroprene; (Neoprene)	126-99-8	1	1	1	300	ppm
658	Potassium acetate	127-08-2	12,5	40	250	500	mg/m3
659	Sodium acetate	127-09-3	15	40	300	500	mg/m3
660	Perchloroethylene; (Tetrachloroethylene)	127-18-4	25	100	200	1 000	ppm
661	Dimethyl acetiminde, n,n-	127-19-5	10	30	50	300	ppm
662	Chloro-p-toluenesulfonamide, sodium salt, n-; (Chloramine T) (see also SFV550)	127-65-1	10	30	50	250	mg/m3
663	Zinc phenosulfonate; (Zinc p-hydroxybenzenesulfonate)	127-82-2	0,6	2	12,5	500	mg/m3

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			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
664	Bis(1,1-dimethylethyl)-4-methylphenol, 2,6-; (BHT [food grade]; 2,6-Di-tert-butyl-p-cresol))	128-37-0	2	6	10	400	mg/m3
665	Pyrene	129-00-0	15	15	15	15	mg/m3
666	Warfarin sodium	129-06-6	1,5	5	9	9	mg/m3
667	Disodium-3,6-endoxohexahydrophthalate	129-67-9	1	3	20	20	mg/m3
668	Napthoquinone, 1,4-	130-15-4	0,075	0,25	1,5	75	mg/m3
669	Dimethylphthalate	131-11-3	5	15	25	500	mg/m3
670	Sodium pentachlorophenate	131-52-2	1	3,5	25	75	mg/m3
671	Ammonium picrate	131-74-8	10	30	50	250	mg/m3
672	Biphenolol, sodium salt, 2-;	132-27-4	2,5	7,5	60	300	mg/m3
673	Dibenzofuran	132-64-9	10	30	50	250	mg/m3
674	Captan	133-06-2	5	15	25	500	mg/m3
675	Chloramben; (3-Amino-2,5-dichlorobenzoic acid)	133-90-4	35	100	500	500	mg/m3
676	Naphthalenamine, 1-; (1-Naphthylamine)	134-32-7	4	12,5	75	350	mg/m3
677	Diethylbenzene, o-	135-01-3	2,5	7,5	50	500	mg/m3
678	Cupferron; (Ammonium-n-nitrosophenylhydroxylamine)	135-20-6	7,5	25	75	75	mg/m3
679	Butylbenzene, sec-; (2-Phenylbutane)	135-98-8	1,5	5	35	150	ppm
680	Thiram; (Thioperoxydicarbonic diamide [(H2N)C(S)]2S2, tetramethyl-)	137-26-8	5	5	5	100	mg/m3
681	Nitrilotriacetic acid; (Aminotriacetic acid)	139-13-9	35	100	500	500	mg/m3
682	Ethylenediaminetetraacetic acid, disodium salt	139-33-3	60	150	500	500	mg/m3
683	Trisodium ethylenediaminetriacetate	139-89-9	4	12,5	75	400	mg/m3
684	Benzyl cyanide; (Phenylacetonitrile)	140-29-4	0,2	0,6	4,3	30	mg/m3
685	Aminoethylpiperazine, n-	140-31-8	2,5	7,5	50	500	mg/m3
686	Methyl-5-vinyl-pyridine, 2-	140-76-1	0,35	1	1,9	40	mg/m3
687	Dinitrosopiperazine; (Piperazine, 1,4-dinitroso-)	140-79-4	0,5	1,5	10	60	mg/m3
688	Ethyl acrylate	140-88-5	15	15	30	300	ppm
689	Butyl acrylate, n-	141-32-2	2	3,5	25	250	ppm
690	Ethanolamine	141-43-5	3	6	30	30	ppm
691	Sodium formate	141-53-7	40	125	500	500	mg/m3
692	Dicrotophos	141-66-2	0,25	0,75	0,9	40	mg/m3
693	Ethyl acetate	141-78-6	400	400	400	2 000	ppm
694	Methyl-3-pentene-2-one, 4-; (Mesityl oxide)	141-79-7	25	25	25	1 400	ppm
695	Malonic acid; (Carboxyacetic acid)	141-82-2	10	15	50	500	mg/m3
696	Diethylbenzene, m-	141-93-5	40	125	500	500	mg/m3
697	Dichloropropane, 1,3-	142-28-9	7,5	20	150	350	ppm
698	Hexanoic acid	142-62-1	5	15	100	500	mg/m3
699	Cupric acetate, anhydrous; (Copper acetate)	142-71-2	3	7,5	15	200	mg/m3
700	Iminodiacetic acid	142-73-4	1	3	20	100	mg/m3
701	Heptane	142-82-5	440	440	440	750	ppm
702	Dipropylamine	142-84-7	15	50	350	500	mg/m3

Table 3: Recommended TEELs Rev. 19 (by CASRN)

No.	Chemical Name	CASRN	Rev. 19 Recommended TEELs				Units of original limits
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
703	Sodium cyanide	143-33-9	5	5	5	40	mg/m3
704	Kepone; (Chlordecone)	143-50-0	0,001	0,003	0,5	40	mg/m3
705	Sodium tetraphenyl borate	143-66-8	1,25	3,5	25	125	mg/m3
706	Fluoroacetic acid; (Fluoroethanoic acid)	144-49-0	0,075	0,25	0,47	2	mg/m3
707	Sodium bicarbonate	144-55-8	10	30	50	500	mg/m3
708	Oxalic acid - anhydrous; (Ethanedioic acid)	144-62-7	1	2	5	500	mg/m3
709	Sodium diethyldithiocarbamate; (Carbamodithioic acid, diethyl-, sodium salt)	148-18-5	2	6	100	500	mg/m3
710	Quinolinol, 8-	148-24-3	3,5	10	60	500	mg/m3
711	Mercaptobenzothiazole, 2-; (2-Benzothiazolthiol))	149-30-4	2	6	40	500	mg/m3
712	Ethyl hexanoic acid, 2-; (Butyl ethyl acetic acid)	149-57-5	6	15	125	500	mg/m3
713	Dichloromethylphenylsilane	149-74-6	1	3	20	20	mg/m3
714	Hydroxyethylenediaminetriacetic acid, n-	150-39-0	1,25	4	30	150	mg/m3
715	Sodium succinate	150-90-3	5	15	100	600	ppm
716	Sodium lauryl sulfate; (Surfactant)	151-21-3	0,35	1	6	500	mg/m3
717	Methoxyethylmercuric acetate	151-38-2	0,015	0,05	3	3	mg/m3
718	Potassium cyanide	151-50-8	5	5	5	60	mg/m3
719	Ethyleneimine	151-56-4	0,5	0,5	2,27	100	ppm
720	Octamethyldiphosphoramide; (Octamethylpyrophosphoramide)	152-16-9	0,15	0,5	0,8	3,5	mg/m3
721	Nitrosodiphenylamine, p-	156-10-5	0,1	0,3	2	150	mg/m3
722	Dichloroethene, cis-1,2	156-59-2	200	200	400	2 000	ppm
723	Dichloroethene, trans-1,2; (trans-Acetylene dichloride)	156-60-5	4	12,5	100	2 500	ppm
724	Calcium cyanamide	156-62-7	0,5	1,5	25	500	mg/m3
725	Benzo(ghi)perylene	191-24-2	10	30	50	250	mg/m3
726	Dibenzo(a,e)pyrene; (Naphtho(1,2,3,4-def)chrysene)	192-65-4	0,035	0,1	0,6	3,5	mg/m3
727	Indeno(1,2,3-cd)pyrene	193-39-5	0,15	0,5	3,5	15	mg/m3
728	Benz(e)acephenanthrylene; (Benz(b)fluoroanthene)	205-99-2	0,2	0,6	4	20	mg/m3
729	Fluoranthene	206-44-0	0,005	0,015	0,1	500	mg/m3
730	Benzo(k)fluoranthene	207-08-9	0,2	0,6	4	20	mg/m3
731	Acenaphthylene	208-96-8	0,06	0,2	1,25	500	mg/m3
732	Chrysene (coal tar volatile)	218-01-9	0,2	0,6	1	80	mg/m3
733	Dibenzo-p-dioxin	262-12-4	10	30	200	500	mg/m3
734	Cyclopentane	287-92-3	600	1 800	4 000	15 000	ppm
735	Isobenzan	297-78-9	2	2	2	2	mg/m3
736	Thionazin; (Ethyl pyrazinyl phosphorothioate)	297-97-2	0,6	2	3,5	3,5	mg/m3
737	Methyl parathion	298-00-0	0,2	0,34	0,35	15	mg/m3
738	Phorate	298-02-2	0,05	0,1	0,6	0,6	mg/m3
739	Disulfoton	298-04-4	0,05	0,15	2	75	mg/m3
740	Bis(2-ethyl hexyl) hydrogen phosphate	298-07-7	0,02	0,06	0,4	2	mg/m3
741	Potassium bicarbonate	298-14-6	12,5	35	60	500	mg/m3

Table 3: Recommended TEELs Rev. 19 (by CASRN)

No.	Chemical Name	CASRN	Rev. 19 Recommended TEELs				Units of original limits
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
742	Amphetamine; (Benzedrine)	300-62-9	4	12,5	20	20	mg/m3
743	Lead acetate; (Lead diacetate)	301-04-2	0,075	0,2	40	150	mg/m3
744	Hydrazine	302-01-2	0,5	0,5	5	30	ppm
745	Trichloroacetaldehyde hydrate; (Chloral hydrate)	302-17-0	10	30	50	50	mg/m3
746	Dimethanonaphthalene1,4,5,8-; (Aldrin)	309-00-2	0,25	0,75	10	25	mg/m3
747	Mexacarbate; (4-[Methylamine]-3,5-xylyl-n-methylcarbamate)	315-18-4	2,5	7,5	14	14	mg/m3
748	Emetine dihydrochloride, 1-	316-42-7	0,05	0,15	0,25	0,25	mg/m3
749	Hexachlorocyclohexane, alpha-; (alpha-Benzene hexachloride)	319-84-6	0,5	1,5	25	500	mg/m3
750	Benzene hexachloride, beta; (trans-alpha-); (Hexachlorocyclohexane, 1,2,3,4,5,6-, beta isomer)	319-85-7	0,5	1,5	2,5	500	mg/m3
751	Thenoyl trifluoroacetone	326-91-0	1,25	3,5	25	125	mg/m3
752	Trichloronate; (Ethyl trichlorophenylethylphosphonothioate)	327-98-0	2	6	10	300	mg/m3
753	Methyl cyclohexylfluorophosphonate; (GF Agent)	329-99-7	0,00035	0,001	0,0075	0,04	mg/m3
754	Potassium thiocyanate	333-20-0	10	35	60	60	mg/m3
755	Diazomethane	334-88-3	0,2	0,6	2	2	ppm
756	Heptafluorotetrahydro-5-[nonafluorobutyl]-furan, 2,2,3,3,4,4,5-; (Fluorinert FC-75)	335-36-4	3,5	10	15	75	mg/m3
757	Boron trifluoride-dimethyl ether	353-42-4	1	3	5	7,5	ppm
758	Carbonyl fluoride	353-50-4	2	5	5	20	ppm
759	Halon 1211; (Bromochlorodifluoromethane)	353-59-3	12,5	40	250	5 000	ppm
760	Halon 1301; (1,1,2-Trifluoro-1-bromo-2-chloroethane)	354-06-3	50	150	1 000	5 000	ppm
761	Trifluoroacetyl chloride	354-32-5	1	3	5	250	ppm
762	Trichloro-2,2,2-trifluoroethane, 1,1,1-	354-58-5	250	500	500	500	mg/m3
763	Brucine (as srychnine)	357-57-3	0,15	0,45	0,75	40	mg/m3
764	Fluoroacetyl chloride	359-06-8	2	6	10	10	mg/m3
765	Ethylene fluorohydrin; (2-Fluoroethanol)	371-62-0	0,005	0,015	0,0267	1,25	ppm
766	Tetrachlorohexafluorobutane, 2,2,3,3-; (FLON; Freon substitute; CFC316)	375-34-8	0,2	0,6	4	20	ppm
767	Ergotamine tartrate	379-79-3	2	6	10	60	mg/m3
768	Perfluoroisobutylene; (Octafluoro-sec-butene)	382-21-8	0,01	0,01	0,1	0,3	ppm
769	Silicon carbide	409-21-2	15	30	50	250	mg/m3
770	Cyanamide	420-04-2	2	6	10	35	mg/m3
771	Fluorotrimethylsilane	420-56-4	2,5	7,5	50	250	ppm
772	Methyl fluorosulfate	421-20-5	0,0025	0,0075	0,05	0,25	ppm
773	Methyl fluoroacetate	453-18-9	0,015	0,05	0,35	5	mg/m3
774	Cyanogen	460-19-5	10	10	10	15	ppm
775	Allene; (1,2-Propadiene)	463-49-0	40	125	750	4 000	ppm
776	Ketene; (Carbomethene, Ethenone)	463-51-4	0,5	1,5	1,5	5	ppm
777	Carbonyl sulfide	463-58-1	1,25	4	25	125	ppm
778	Dimethylpropane, 2,2-; (Neopentane)	463-82-1	610	610	610	50 000	ppm
779	Isodrin	465-73-6	1,25	4	7	7	mg/m3
780	Chlorfenvinfos	470-90-6	2	6	10	10	mg/m3

Table 3: Recommended TEELs Rev. 19 (by CASRN)

No.	Chemical Name	CASRN	Rev. 19 Recommended TEELs				Units of original limits
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
781	Carbonic acid, calcium salt	471-34-1	15	30	50	500	mg/m3
782	Trinitrophenylmethyl-nitramine, 2,4,6-; (Tetryl)	479-45-8	1,5	4,5	7,5	500	mg/m3
783	Indole-3-carboxaldehyde, iH-; (3-Formylindole)	487-89-8	0,75	2,5	15	75	ppm
784	Decahydronaphthalene, cis-; (Decalin)	493-02-7	0,5	1,5	10	75	ppm
785	Indan	496-11-7	40	125	500	500	mg/m3
786	Sodium carbonate	497-19-8	10	30	50	500	mg/m3
787	Methylmercuric dicyanamide	502-39-6	0,015	0,04	3	3	mg/m3
788	Aminopyridine, 4-; (4-Pyridinamine)	504-24-5	4	12,5	20	20	mg/m3
789	Bis[2-chloroethyl]sulfide; (HD vesicant; Mustard gas)	505-60-2	0,00075	0,0025	0,015	4	mg/m3
790	Potassium silver cyanide	506-61-6	1	3	20	20	mg/m3
791	Silver cyanide	506-64-9	25	25	25	125	mg/m3
792	Cyanogen bromide	506-68-3	20	44	44	44	mg/m3
793	Cyanogen chloride	506-77-4	0,3	0,3	0,4	4	ppm
794	Cyanogen iodide	506-78-5	35	100	180	180	mg/m3
795	Ammonium carbonate	506-87-6	0,75	2,5	15	75	mg/m3
796	Acetyl bromide	506-96-7	0,2	0,6	4	20	ppm
797	Tetraphenylarsonium chloride; (Tetraphenylarsenium chloride)	507-28-8	2,5	7,5	12,5	25	mg/m3
798	Tetranitromethane	509-14-8	0,998	0,998	0,998	4	ppm
799	Chlorobenzylate; (4,4'-Dichloro-benzilic acid ethyl ester)	510-15-6	0,075	0,25	1,5	300	mg/m3
800	Trimethyl phosphate; (TMP)	512-56-1	5	15	60	60	ppm
801	Ascaridole	512-85-6	6	20	75	75	mg/m3
802	Butylamine, (S)-sec-	513-49-5	1,5	4	30	150	mg/m3
803	Barium carbonate	513-77-9	0,3	0,75	6	500	mg/m3
804	Cadmium carbonate	513-78-0	0,0075	0,04	4	12,5	mg/m3
805	Cobaltous carbonate	513-79-1	0,125	0,125	0,2	250	mg/m3
806	Dithiazanine iodide; (3,3'-Diethylpentamethinethiacyanne iodide)	514-73-8	4	12,5	20	20	mg/m3
807	Hematoxylin	517-28-2	10	30	50	250	mg/m3
808	Uranine; (Fluorescein sodium)	518-47-8	12,5	40	250	500	mg/m3
809	Trimethylbenzene, 1,2,3-	526-73-8	25	75	125	750	ppm
810	Sodium gluconate	527-07-1	0,6	2	15	75	mg/m3
811	Dinitrobenzene, o-	528-29-0	1	3	5	50	mg/m3
812	Bis(chloromethyl)ketone; (1,3-Dichloroacetone)	534-07-6	0,125	0,4	2	2	mg/m3
813	Silver carbonate; (Silver(I) carbonate)	534-16-7	0,0125	0,04	0,06	12,5	mg/m3
814	Cesium carbonate	534-17-8	10	30	200	500	mg/m3
815	Methylfuran, 2-	534-22-5	6	20	50	50	ppm
816	Dinitro-o-cresol, 4,6- and salts	534-52-1	0,2	0,2	0,5	5	mg/m3
817	Crimidine; (Castrix)	535-89-7	0,25	0,75	1,2	1,2	mg/m3
818	Ethylbis(2-chloroethyl)amine; (Bis(2-chloroethyl)ethylamine)	538-07-8	1,5	4	7,5	30	mg/m3
819	Dichloroethylene, 1,2-	540-59-0	200	600	1 000	1 000	ppm

Table 3: Recommended TEELs Rev. 19 (by CASRN)

No.	Chemical Name	CASRN	Rev. 19 Recommended TEELs				Units of original limits
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
820	Ammonium formate	540-69-2	10	30	50	500	mg/m3
821	Dimethylhydrazine, 1,2-	540-73-8	0,15	0,5	3,5	125	ppm
822	Trimethylpentane, 2,2,4-	540-84-1	74,9	74,9	385	2 000	ppm
823	Butyl acetate, tert-	540-88-5	200	600	1 000	1 500	ppm
824	Dodecamethylcyclohexasiloxane	540-97-6	10	30	50	500	mg/m3
825	Silicone (several formulations); (Decamethylcyclopentasiloxane)	541-02-6	10	30	50	500	mg/m3
826	Hexamethylcyclotrisiloxane	541-05-9	10	30	200	500	mg/m3
827	Uranyl acetate; (Uranium oxyacetate)	541-09-3	0,075	1	1,75	15	mg/m3
828	Lewisite; (Chlorovinylarsine dichloride)	541-25-3	1,25	1,25	4,7	4,7	mg/m3
829	Ethyl chloroformate	541-41-3	1	1	2	10	ppm
830	Methylbutanamide, 3-; (Isovaleramide)	541-46-8	6	20	125	500	mg/m3
831	Dithiobiuret	541-53-7	1	3	5	5	mg/m3
832	Dichlorobenzene, m-	541-73-1	0,75	2	15	75	ppm
833	Barium cyanide	542-62-1	0,6	2	3,5	60	mg/m3
834	Dichloropropene, 1,3-	542-75-6	1	3	5	50	ppm
835	Chloropropionitrile, 3-	542-76-7	0,5	1,5	2,5	12,5	ppm
836	Dichloromethyl ether; (bis[Chloromethyl]ether]	542-88-1	0,001	0,003	0,1	0,5	ppm
837	Ethylthiocyanate	542-90-5	20	60	100	100	mg/m3
838	Cadmium(II) acetate	543-90-8	0,005	0,03	4	7,5	mg/m3
839	Calcium formate	544-17-2	10	30	200	500	mg/m3
840	Tetradecanoic acid; (Myristic acid)	544-63-8	0,35	1	7,5	35	mg/m3
841	Hexadecane	544-76-3	150	500	500	500	mg/m3
842	Copper cyanide	544-92-3	1,25	4	6	25	mg/m3
843	Magnesium carbonate; (Magnesite)	546-93-0	15	30	50	250	mg/m3
844	Lithium carbonate	554-13-2	0,4	1,25	7,5	200	mg/m3
845	Nitrophenol, 3-; (m-Nitrophenol)	554-84-7	1,25	4	30	150	mg/m3
846	Tris(2-chloroethyl)amine; (Nitrogen mustard 3)	555-77-1	4	10	10	10	mg/m3
847	Methyl isothiocyanate; (Isothiocyanatomethane)	556-61-6	1,5	4	33	500	mg/m3
848	Methyl thiocyanate	556-64-9	5	15	28,4	28,4	ppm
849	Octamethylcyclotetrasiloxane	556-67-2	12,5	35	250	300	ppm
850	Zinc stearate	557-05-1	15	30	50	150	mg/m3
851	Nickel cyanide	557-19-7	0,35	1	7,5	15	mg/m3
852	Diethylzinc	557-20-0	1,5	3,5	3,5	10	ppm
853	Zinc cyanide	557-21-1	20	20	20	100	mg/m3
854	Zinc acetate	557-34-6	0,3	0,75	6	500	mg/m3
855	Magnesium formate	557-39-1	10	10	10	10	mg/m3
856	Chloropropylene, 2-	557-98-2	1 000	3 000	20 000	35 000	ppm
857	Methanesulfonyl fluoride; (Methanesulfonyl fluoride)	558-25-8	3,49	3,49	3,49	3,49	ppm
858	Ethion	563-12-2	0,4	1,2	13	350	mg/m3

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No.	Chemical Name	CASRN	Rev. 19 Recommended TEELs				Units of original limits
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
859	Dimethylhexane, 3,3-	563-16-6	75	75	386	2 000	ppm
860	Semicarbazide hydrochloride	563-41-7	20	60	100	100	mg/m3
861	Dichloroethylaluminum; (example of Alkylaluminums)	563-43-9	7,5	7,5	7,5	7,5	mg/m3
862	Methyl-1-butene, 2-	563-46-2	15 000	15 000	15 000	15 000	ppm
863	Chloro-2-methyl-1-propene, 3-	563-47-3	0,75	2,5	15	75	ppm
864	Dichloropropene, trans-1,2-; (Propylene dichloride; 1,2-dichloro-1-propene, [E]-)	563-54-2	15	50	75	400	ppm
865	Dichloropropene, 1,1-	563-58-6	1	3	5	200	ppm
866	Thallium(I) acetate; (Acetic acid, thallium(1+) salt)	563-68-8	0,125	0,4	0,6	20	mg/m3
867	Calcium oxalate	563-72-4	6	15	50	50	mg/m3
868	Methyl isopropyl ketone; (3-Methyl-2-butanone)	563-80-4	200	200	200	600	ppm
869	Aluminon	569-58-4	0,0004	0,001	0,0075	500	mg/m3
870	C.I. Basic Green 4; (Aizen malachite green)	569-64-2	0,35	1	6	35	mg/m3
871	Dinitrophenol, 2,6-	573-56-8	0,15	0,4	3	15	mg/m3
872	Dimethylphenol, 2,6-; (2,6-Xylenol)	576-26-1	0,75	2	15	125	mg/m3
873	Dioctyl sodium sulfosuccinate; (Di-[2-ethylhexyl] sodium sulfosuccinate)	577-11-7	7,5	20	150	500	mg/m3
874	Phenyl-1,2-propanedione, 1-	579-07-7	2,5	7,5	50	250	mg/m3
875	Potassium oxalate	583-52-8	7,5	25	150	500	mg/m3
876	Methylcyclohexanone, 2-; (o-Methylcyclohexanone)	583-60-8	75	75	125	600	ppm
877	Isoamyl alcohol (secondary)	584-02-1	100	125	125	500	ppm
878	Potassium carbonate	584-08-7	10	20	50	500	mg/m3
879	Toluene diisocyanate, 2,4-; (TDI)	584-84-9	0,005	0,01	0,15	0,6	ppm
880	Diphenyl mercury (aryl compound)	587-85-9	0,1	0,1	0,1	10	mg/m3
881	Stilbene 420	588-59-0	10	30	50	500	mg/m3
882	Hexanone, 3-; (Ethyl propyl ketone)	589-38-8	4	12,5	75	400	ppm
883	Methylheptane, 4-	589-53-7	10	30	50	250	ppm
884	Butyl propanoate; (Propanoic acid, butyl ester)	590-01-2	500	500	500	500	mg/m3
885	Butene, cis-2-; (cis-1,2-Dimethylethylene)	590-18-1	17 000	17 000	17 000	17 000	ppm
886	Potassium formate	590-29-4	20	60	500	500	mg/m3
887	Hexanone, 2-; (Methyl n-butyl ketone)	591-78-6	5	10	25	1 600	ppm
888	Acetic acid, 2-propenyl ester	591-87-7	0,5	1,5	10	50	ppm
889	Mercuric cyanide	592-04-1	0,025	0,1	10	10	mg/m3
890	Hexene, 1-	592-41-6	30	30	30	30	ppm
891	Formic acid, butyl ester; (n-Butyl formate)	592-84-7	50	150	1 000	1 000	ppm
892	Mercuric thiocyanate; (Mercuric sulfocyanate)	592-85-8	0,04	0,1	0,15	15	mg/m3
893	Methyl fluoride; (Fluoromethane)	593-53-3	4	12,5	20	400	mg/m3
894	Vinyl bromide	593-60-2	5	15	25	50	ppm
895	Dimethyl mercury	593-74-8	0,01	0,035	0,04	2	mg/m3
896	Dichloropropane, 2,2-	594-20-7	75	110	110	400	ppm
897	Perchloromethyl mercaptan	594-42-3	0,1	0,15	1	10	ppm

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No.	Chemical Name	CASRN	Rev. 19 Recommended TEELs				Units of original limits
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
898	Tetraethyltin; (Tetraethylstannane)	597-64-8	0,2	0,4	7	50	mg/m3
899	Methyl-1-propene-1-one, 2-; (Dimethylketene)	598-26-5	0,03	0,1	0,6	3,5	ppm
900	Bromoacetone	598-31-2	0,075	0,2	1,5	7,5	ppm
901	Methyl vinyl carbinol; (3-Buten-2-ol)	598-32-3	0,25	0,75	5	25	ppm
902	Manganese carbonate	598-62-9	0,4	6	10	500	mg/m3
903	Lead carbonate	598-63-0	0,06	0,2	3	500	mg/m3
904	Bromotrifluoroethylene	598-73-2	6	20	35	125	ppm
905	Dinitrotoluene 2,6-	606-20-2	0,2	0,6	1	50	mg/m3
906	Dibromophenol, 2,6-	608-33-3	0,5	0,5	2,5	2,5	mg/m3
907	Benzene hexachloride	608-73-1	0,15	0,5	4	40	mg/m3
908	Pentachlorobenzene	608-93-5	10	30	50	400	mg/m3
909	Dinitrotoluene, 3,4-	610-39-9	0,2	0,6	1	50	mg/m3
910	Ethyltoluene, o-	611-14-3	0,1	0,3	2	500	mg/m3
911	Nitrosotoluene, p-	611-23-4	7,5	25	150	500	mg/m3
912	Butyl perbenzoate, tert-	614-45-9	7,5	25	150	400	mg/m3
913	Methylphenylthiourea, 2-; (o-Tolyl thiourea)	614-78-8	10	30	50	50	mg/m3
914	Furancarboxylic acid, ethyl ester, 2-; (Ethyl furoate)	614-99-3	0,25	0,75	5	25	ppm
915	Phenylenediamine dihydrochloride, 1,2-	615-28-1	10	30	125	125	mg/m3
916	Pyrrolidinone, 2-	616-45-5	1	3	20	40	ppm
917	Phenylpropanol, 2-; (Dimethylphenylmethanol)	617-94-7	1	3	20	100	ppm
918	Chloronitrophenol, 2-	619-08-9	0,5	1,5	10	50	ppm
919	Nitrosodipropylamine; (DPNA)	621-64-7	0,06	0,2	1,25	200	mg/m3
920	Ethyltoluene, p-	622-96-8	40	125	500	500	mg/m3
921	Diethylurea, 1,3-	623-76-7	5	15	100	600	ppm
922	Phenylenediamine dihydrochloride, 1,4-	624-18-0	0,6	1,5	12,5	60	mg/m3
923	Dimethylcyclohexane, cis-1,4-	624-29-3	0,75	2	15	75	ppm
924	Butene-trans, 2-; (trans-1,2-Dimethylethylene)	624-64-6	6 000	15 000	25 000	25 000	ppm
925	Methyl isocyanate	624-83-9	0,02	0,025	0,5	5	ppm
926	Dimethyl disulfide	624-92-0	0,0035	0,01	50	250	ppm
927	Chloroethyl Chloroformate	627-11-2	4	12,5	20	20	mg/m3
928	Propyl nitrate	627-13-4	25	40	125	1 164	ppm
929	Diethyl mercury	627-44-1	0,0125	0,04	0,05	2,5	mg/m3
930	Amyl acetate	628-63-7	100	100	100	1 000	ppm
931	Diacetate-1,1'-oxybis-ethanol; (Diethylene glycol diacetate)	628-68-2	100	300	500	500	mg/m3
932	Hexanenitrile	628-73-9	0,5	1,5	10	50	ppm
933	Cyclooctatetraene, 1,3,5,7-	629-20-9	70 000	2,10E+05	3,50E+05	5,00E+05	ppm
934	Tridecane	629-50-5	10	30	200	500	mg/m3
935	Tetradecane	629-59-4	0,04	0,125	1	1 250	ppm
936	Pentadecane	629-62-9	3,5	10	60	350	ppm

Table 3: Recommended TEELs Rev. 19 (by CASRN)

No.	Chemical Name	CASRN	Rev. 19 Recommended TEELs				Units of original limits
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
937	Hexadecene, 1-	629-73-2	0,4	1,25	10	50	ppm
938	Heptadecane	629-78-7	15	50	350	1 500	ppm
939	Octacosane	630-02-4	0,3	0,3	50	250	mg/m3
940	Nonacosane	630-03-5	10	30	50	250	mg/m3
941	Pentatriacontane	630-07-9	10	30	50	250	mg/m3
942	Carbon monoxide	630-08-0	50	200	350	500	ppm
943	Tetrachloroethane 1,1,1,2-	630-20-6	3	7,5	60	200	ppm
944	Ouabain	630-60-4	1,5	5	8,3	12,5	mg/m3
945	Ammonium acetate	631-61-8	2,5	7,5	50	250	mg/m3
946	Tetrachlorobenzene, 1,2,3,4-	634-66-2	12,5	35	250	500	mg/m3
947	Phenylphosphine	638-21-1	0,05	0,05	0,05	15	ppm
948	Triphenyltin chloride; (Chlorotriphenylstannane)	639-58-7	0,3	0,6	20	75	mg/m3
949	Fluoroacetamide	640-19-7	1	3,5	5,8	5,8	mg/m3
950	Dimetilan	644-64-4	5	15	25	25	mg/m3
951	Dioxolane, 1,3-	646-06-0	20	20	69,3	3 000	ppm
952	Diketene; (Ketene dimer)	674-82-8	0,35	1	5	20	ppm
953	Cyanuric fluoride; (2,4,6-Trifluoro-s-triazine)	675-14-9	0,17	0,17	0,17	75	mg/m3
954	Methyl phosphonic dichloride	676-97-1	0,06	0,2	1,4	15	mg/m3
955	Methyl phosphonothioic dichloride	676-98-2	1,5	4	30	150	mg/m3
956	Methyl difluorophosphite; (Methylphosphonic difluoride)	676-99-3	0,75	2,5	20	100	mg/m3
957	Hexamethylphosphoramide	680-31-9	0,04	0,125	0,75	150	ppm
958	Tetramethoxysilane; (Methyl silicate)	681-84-5	1	1,5	10	20	ppm
959	Diethyl methylphosphonate; (DEMP)	683-08-9	7,5	25	200	500	mg/m3
960	Hexafluoroacetone	684-16-2	0,1	0,15	1	50	ppm
961	Nitroso-n-methylurea, n-	684-93-5	0,015	0,05	0,35	50	mg/m3
962	Phenyl dichloroarsine; (Dichlorophenylarsine)	696-28-6	1,5	1,5	4	125	mg/m3
963	Phosmet	732-11-6	0,025	0,075	0,54	40	mg/m3
964	Dimethyl methylphosphonate; (DMMP)	756-79-6	100	350	500	500	mg/m3
965	Methacrylic anhydride	760-93-0	0,75	2,5	4,5	150	mg/m3
966	Propionic acid, 3-ethoxy-, ethyl ester	763-69-9	20	60	400	500	mg/m3
967	Dichloro-2-butene 1,4-	764-41-0	0,005	0,015	2,5	125	ppm
968	Glycidaldehyde	765-34-4	0,025	0,075	0,5	25	ppm
969	Carbophenothion; (Trithion)	786-19-6	1,25	4	6,8	6,8	mg/m3
970	Tetrafluoroethane, 1,1,1,2-; (HFC 134a)	811-97-2	1 000	3 000	50 000	1,50E+05	ppm
971	Diethyl chlorophosphate	814-49-3	0,4	1	8	8	mg/m3
972	Acrylyl chloride; (Acryloyl chloride)	814-68-6	0,05	0,15	0,25	10	ppm
973	Lead oxalate	814-93-7	0,06	0,2	0,35	1,5	mg/m3
974	Strontium oxalate	814-95-9	7,5	25	60	75	mg/m3
975	Nonanone, 2-	821-55-6	1	3	20	75	ppm

Table 3: Recommended TEELs Rev. 19 (by CASRN)

No.	Chemical Name	CASRN	Rev. 19 Recommended TEELs				Units of original limits
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
976	Hexamethylene diisocyanate; (1,6-Diisocyanatohexane)	822-06-0	0,005	0,015	0,2	3,5	ppm
977	Sodium stearate	822-16-2	0,15	0,5	3,5	15	mg/m3
978	Dichlorocyclohexane, trans-1,2-	822-86-6	75	250	500	500	mg/m3
979	Toluene-2,6-diamine; (Benzenediamine, 2-methyl-1,2-)	823-40-5	1,5	4	30	150	mg/m3
980	Trimethylolpropane phosphite	824-11-3	0,125	0,35	2,5	6	mg/m3
981	Indigo carmine; (FD&C blue No 2)	860-22-0	20	60	75	75	mg/m3
982	Potassium citrate	866-84-2	1,25	4	30	150	mg/m3
983	Dimethyl hydrogen phosphite	868-85-9	20	60	400	500	mg/m3
984	Methyl 2-pyrrolidinone, 1-; (n-Methylpyrrolidone)	872-50-4	10	15	50	400	ppm
985	Acetoxytriphenylstannane	900-95-8	0,35	0,6	20	50	mg/m3
986	Demeton-s-methyl	919-86-8	0,05	0,15	5	200	mg/m3
987	Methacryloyl chloride	920-46-7	0,025	0,075	0,140	6	ppm
988	Methylpropylnitrosoamine: (1-Propanamine, N-methyl-N-nitroso-)	924-46-9	0,01	0,03	0,2	4	ppm
989	Disodium iminodiacetate (IDA)	928-72-3	4	12,5	100	500	ppm
990	Oxirane, ethenyl-; (3,4-Epoxy-1-butene)	930-22-3	3	10	25	25	ppm
991	Chlorocyclohexene; (4-Chlorocyclohexene)	930-65-4	20	60	500	2 500	ppm
992	Trichlorophenol, 2,3,6-	933-75-5	1,25	4	25	125	mg/m3
993	Chloroperoxybenzoic acid, 3-	937-14-4	0,4	1,25	7,5	40	mg/m3
994	Fonofos	944-22-9	0,1	0,3	1,3	200	mg/m3
995	Phosfolan	947-02-4	1,5	5	9	9	mg/m3
996	Mephosfolan	950-10-7	1,5	5	9	9	mg/m3
997	Methidathion; (Dithiophosphate)	950-37-8	1	3	20	400	mg/m3
998	C.I. Basic Red 1; (Rhodamine 6G extra base)	989-38-8	0,025	0,075	0,6	2,5	mg/m3
999	Norbormide	991-42-4	0,75	2	3,8	3,8	mg/m3
1000	Methyl chlorosilane; (Chloromethylsilane)	993-00-0	0,2	0,6	4	20	ppm
1001	Triethoxysilane	998-30-1	0,05	0,15	0,75	15	ppm
1002	Chlormequat Chloride; (Choline dichloride)	999-81-5	0,35	1	7	7,5	mg/m3
1003	Hexamethyldisilazane	999-97-3	0,1	0,3	2	350	mg/m3
1004	Pentadecanoic acid	1002-84-2	0,04	0,125	1	5	ppm
1005	Tetrahydro-2,5-dimethyl furan	1003-38-9	15	50	350	500	mg/m3
1006	Heptachlor epoxide; (Epoxyheptachlor)	1024-57-3	0,15	0,15	0,25	6	mg/m3
1007	Triamiphos	1031-47-6	2	6	10	10	mg/m3
1008	Chromic acetate; (Chromium[III] acetate)	1066-30-4	2	6	10	100	mg/m3
1009	Ammonium bicarbonate	1066-33-7	2	6	40	200	mg/m3
1010	Trimethylsilanol	1066-40-6	0,05	0,5	2	5	ppm
1011	Trimethyltin chloride; (Chlorotrimethylstannane)	1066-45-1	0,15	0,35	20	40	mg/m3
1012	Dimethylheptane, 2,2-	1071-26-7	66,8	66,8	343	1 500	ppm
1013	Methylaziridine, 1-	1072-44-2	2	2	2	100	ppm
1014	Ammonium carbamate; (Carbamic Acid, Ammonium Salt)	1111-78-0	0,3	1	6	35	mg/m3

Table 3: Recommended TEELs Rev. 19 (by CASRN)

No.	Chemical Name	CASRN	Rev. 19 Recommended TEELs				Units of original limits
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
1015	Ammonium oxalate; (Ethanediodic acid, ammonium salt)	1113-38-8	0,15	0,5	4	20	mg/m3
1016	Trioctylamine; (n,n-Dioctyl-1-octanamine)	1116-76-3	4	12,5	75	400	mg/m3
1017	Undecane	1120-21-4	0,35	1	6	35	ppm
1018	Propane sultone, 1,3-	1120-71-4	0,4	1,25	7,5	20	mg/m3
1019	Nitrocyclohexane	1122-60-7	0,3	0,75	1,5	60	mg/m3
1020	Nitropyridine-n-oxide, 4-; (Pyridine, 4-nitro-1-oxide)	1124-33-0	15	50	80	80	mg/m3
1021	Metolcarb; (Methylcarbamic acid m-tolyl ester)	1129-41-5	1	3	5	200	mg/m3
1022	Ferric ammonium citrate	1185-57-5	1	3	500	500	mg/m3
1023	Ethidium bromide; (2,7-Diamino-10-ethyl-9-phenylphenanthridinium bromide)	1239-45-8	0,15	0,5	4	20	mg/m3
1024	Xylidine	1300-73-8	1,5	1,5	2,5	50	ppm
1025	Sodium aluminate	1302-42-7	2	6	10	50	mg/m3
1026	Lithium aluminum silicate; (Spodumene (mineral))	1302-66-5	2	6	10	50	mg/m3
1027	Aluminum(III)silicate (2:1); (Oil-dri)	1302-76-7	6	15	30	150	mg/m3
1028	Clay absorbent: (Bentonite)	1302-78-9	10	30	50	50	mg/m3
1029	Arsenic pentoxide	1303-28-2	0,015	0,045	7,5	7,5	mg/m3
1030	Boron oxide	1303-86-2	15	30	50	500	mg/m3
1031	Lithium metaborate, anhydrous	1303-94-2	10	30	50	250	mg/m3
1032	Sodium borate decahydrate	1303-96-4	5	15	25	500	mg/m3
1033	Barium oxide	1304-28-5	0,5	1,5	2,5	50	mg/m3
1034	Barium dioxide; (Barium peroxide)	1304-29-6	0,6	0,6	1,5	7,5	mg/m3
1035	Beryllium oxide	1304-56-9	0,005	0,025	10	10	mg/m3
1036	Bismuth oxide	1304-76-3	20	60	400	500	mg/m3
1037	Bismuth hydroxide nitrate oxide; (White paint)	1304-85-4	7,5	20	150	500	mg/m3
1038	Calcium hydroxide	1305-62-0	15	15	25	500	mg/m3
1039	Calcium oxide	1305-78-8	5	5	5	25	mg/m3
1040	Calcium hydroxyapatite	1306-06-5	12,5	35	60	500	mg/m3
1041	Cadmium oxide	1306-19-0	0,005	0,035	4	10	mg/m3
1042	Ceric oxide	1306-38-3	6	20	125	500	mg/m3
1043	Cobalt(II) oxide	1307-96-6	0,075	0,075	12,5	75	mg/m3
1044	Cobalt oxide	1308-06-1	0,075	0,075	0,125	500	mg/m3
1045	Chromic trihydroxide; (Chromic(III) acid)	1308-14-1	1	1,5	5	50	mg/m3
1046	Chromite; (Chromite [mineral])	1308-31-2	0,3	0,3	0,5	500	mg/m3
1047	Chromic oxide (Chromium(III) oxide, chromium sesquioxide)	1308-38-9	0,75	2,25	3,75	35	mg/m3
1048	Dysprosium oxide	1308-87-8	20	60	400	500	mg/m3
1049	Europium oxide	1308-96-9	20	60	400	500	mg/m3
1050	Ferric hydroxide	1309-33-7	3,5	10	75	400	mg/m3
1051	Iron oxide; (Ferric oxide)	1309-37-1	10	15	25	500	mg/m3
1052	Magnesium hydroxide	1309-42-8	75	200	500	500	mg/m3
1053	Magnesium oxide	1309-48-4	10	30	50	500	mg/m3

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No.	Chemical Name	CASRN	Rev. 19 Recommended TEELs				Units of original limits
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
1054	Lead dioxide	1309-60-0	0,06	0,18	0,3	100	mg/m3
1055	Antimony oxide	1309-64-4	0,6	1,5	3	60	mg/m3
1056	Goethite; (Iron hydroxide oxide)	1310-14-1	5	7,5	12,5	250	mg/m3
1057	Germanium oxide	1310-53-8	0,75	2	15	500	mg/m3
1058	Potassium hydroxide	1310-58-3	2	2	2	150	mg/m3
1059	Lithium hydroxide	1310-65-2	0,05	0,15	1	100	mg/m3
1060	Sodium hydroxide	1310-73-2	0,5	0,5	5	50	mg/m3
1061	Rubidium hydroxide	1310-82-3	2,5	7,5	50	250	mg/m3
1062	Indium(III) oxide	1312-43-2	0,125	0,35	60	500	mg/m3
1063	Indium oxide (vapor)	1312-43-3	0,1	0,3	0,5	2,5	mg/m3
1064	Lanthanum oxide	1312-81-8	40	125	500	500	mg/m3
1065	Manganese dioxide (as Mn)	1313-13-9	0,3	4	75	500	mg/m3
1066	Molybdenum trioxide	1313-27-5	15	15	15	500	mg/m3
1067	Sodium peroxide	1313-60-6	10	10	10	10	mg/m3
1068	Sodium sulfide hydrate	1313-82-2	0,75	2,5	15	75	mg/m3
1069	Niobium(V) oxide	1313-96-8	10	30	500	500	mg/m3
1070	Neodymium(III) oxide	1313-97-9	10	30	50	500	mg/m3
1071	Nickel oxide; (Nickel(II) oxide)	1313-99-1	0,75	0,75	12,5	12,5	mg/m3
1072	Thallium oxide	1314-12-1	0,1	0,3	0,5	15	mg/m3
1073	Zinc oxide	1314-13-2	15	15	15	500	mg/m3
1074	Thorium oxide	1314-20-1	25	75	500	500	mg/m3
1075	Zirconium oxide	1314-23-4	6	12,5	12,5	60	mg/m3
1076	Phosphorus trioxide	1314-24-5	0,4	1,25	7,5	40	mg/m3
1077	Thallium(III) oxide	1314-32-5	2	2	2	20	mg/m3
1078	Tungsten trioxide; (Tungsten(VI) oxide)	1314-35-8	6	12,5	30	400	mg/m3
1079	Yttrium trioxide	1314-36-9	1,25	4	6	500	mg/m3
1080	Ytterbium oxide	1314-37-0	10	30	50	250	mg/m3
1081	Lead tetroxide	1314-41-6	0,05	0,15	0,25	100	mg/m3
1082	Phosphorus pentoxide	1314-56-3	1	1	10	50	mg/m3
1083	Tantalum(V) oxide	1314-61-0	6	12,5	30	500	mg/m3
1084	Vanadium pentoxide; (Vanadium(V) oxide)	1314-62-1	0,05	0,5	0,5	35	mg/m3
1085	Rhenium oxide; (Rhenium(VII) oxide)	1314-68-7	1,25	4	6	30	mg/m3
1086	Phosphorus pentasulfide	1314-80-3	1	3	5	250	mg/m3
1087	Zinc phosphide	1314-84-7	0,6	1,5	12	60	mg/m3
1088	Lead sulfide	1314-87-0	0,06	0,15	30	500	mg/m3
1089	Antimony pentasulfide	1315-04-4	0,75	2,5	4	75	mg/m3
1090	Manganese oxide; (Manganese tetroxide)	1317-35-7	0,25	0,75	60	500	mg/m3
1091	Lead oxide; (Lead monoxide)	1317-36-8	0,05	0,05	0,05	100	mg/m3
1092	Cupric oxide	1317-38-0	1,25	3,5	6	125	mg/m3

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No.	Chemical Name	CASRN	Rev. 19 Recommended TEELs				Units of original limits
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
1093	Copper oxide	1317-39-1	1	3,5	5	100	mg/m3
1094	Calcium carbonate; (Dolomite, Limestone)	1317-65-3	15	15	15	15	mg/m3
1095	Cresols	1319-77-3	5	15	25	250	ppm
1096	Divynylbenzene, mixed isomers; (Vinylstyrene)	1321-74-0	10	20	50	750	ppm
1097	Arsenic acid	1327-52-2	0,015	0,05	0,75	50	mg/m3
1098	Arsenic (& inorganic compounds)	1327-53-3	0,01	0,03	5	5	mg/m3
1099	Xylene	1330-20-7	100	150	200	900	ppm
1100	Sodium (tetra)borate, di-	1330-43-4	3	3	5	25	mg/m3
1101	Methylcyclohexanone	1331-22-2	1,5	5	40	200	ppm
1102	Dichloroethylbenzene; (Ethyldichlorobenzene)	1331-29-9	20	60	500	500	mg/m3
1103	Asbestos	1332-21-4	0,005	0,5	0,5	2,5	mg/m3
1104	Tin(II) oxide	1332-29-2	2,5	7,5	12,5	125	mg/m3
1105	Hydrogen	1333-74-0	41 000	41 000	41 000	41 000	ppm
1106	Chromic trioxide; (Chromium(VI) oxide (1:3))	1333-82-0	0,1	0,2	0,2	30	mg/m3
1107	Sodium bifluoride; (Sodium hydrogen fluoride)	1333-83-1	4	4	6	35	mg/m3
1108	Carbon black	1333-86-4	3,5	10,5	17,5	500	mg/m3
1109	Lead acetate basic; (Lead subacetate)	1335-32-6	0,06	0,2	30	125	mg/m3
1110	Hexachloronaphthalene	1335-87-1	0,2	0,2	0,2	2	mg/m3
1111	Ammonium hydroxide (as NH3)	1336-21-6	25	35	35	35	ppm
1112	Polychlorinated biphenyl; (Aroclor; PCBs)	1336-36-3	1	3	5	5	mg/m3
1113	Methyl ethyl ketone peroxide	1338-23-4	0,2	0,2	20	20	ppm
1114	Ammonium dihydrogen fluoride; (Ammonium bifluoride)	1341-49-7	3,5	3,5	3,5	3,5	mg/m3
1115	Magnesium silicate (hydrate)	1343-90-4	10	30	50	250	mg/m3
1116	Sodium aluminosilicate	1344-00-9	3,5	10	150	500	mg/m3
1117	Aluminum oxide	1344-28-1	15	15	15	25	mg/m3
1118	Manganous oxide; (Manganese[II] oxide)	1344-43-0	0,25	0,75	6	150	mg/m3
1119	Uranium black oxide; (Uranium[IV] oxide)	1344-57-6	0,05	0,6	1	10	mg/m3
1120	Uranium oxide; (Triuranium octaoxide)	1344-59-8	0,06	0,6	1	10	mg/m3
1121	Cerium trioxide	1345-13-7	2	6	40	200	mg/m3
1122	Antimycin A	1397-94-0	0,35	1	1,8	12,5	mg/m3
1123	Dinoterb; (2-[1,1-Dimethylethyl]-4,6-dinitrophenol)	1420-07-1	5	15	25	25	mg/m3
1124	Diisopropyl methylphosphonate	1445-75-6	10	30	50	350	mg/m3
1125	Bioxirane, 2,2-; (1,2:3,4-Diepoxybutane)	1464-53-5	0,04	0,125	0,995	10	ppm
1126	Tetracyanoquinodimethan; (Scintillation Cocktail, Ultima Gold AB)	1518-16-7	0,4	1,25	10	50	mg/m3
1127	Fluoro-6-nitrophenol, 2-	1526-17-6	0,75	2,5	15	75	mg/m3
1128	Chloromethyl(trichloro)silane	1558-25-4	0,1	0,35	2	10	mg/m3
1129	Carbofuran	1563-66-2	0,1	0,3	0,43	0,5	mg/m3
1130	Trifluralin; (2,6-dinitro-N,N-dipropyl-4-(trifluoromethyl) benzenamine	1582-09-8	0,025	0,075	0,6	300	mg/m3
1131	Mercuric acetate	1600-27-7	0,01	0,03	0,1	2	mg/m3

Table 3: Recommended TEELs Rev. 19 (by CASRN)

No.	Chemical Name	CASRN	Rev. 19 Recommended TEELs				Units of original limits
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
1132	Diethylaminoacetone	1620-14-0	0,5	1,5	10	50	ppm
1133	Chloroethanesulfonyl chloride, 2-	1622-32-8	1,25	3,5	25	150	mg/m3
1134	Strontium carbonate	1633-05-2	20	20	20	20	mg/m3
1135	Methyl-tert-butyl ether	1634-04-4	50	150	250	10 000	ppm
1136	Tripropylene glycol; (2-Propanol, 1,1-[(1-methyl-1,2-ethanediyl)bis(oxy)]bis-)	1638-16-0	1,5	5	35	150	ppm
1137	Bisphenol A diglycidyl ether	1675-54-3	1,25	3,5	6	6	mg/m3
1138	Butylcyclohexane; (1-Cyclohexylbutane)	1678-93-9	1,5	5	40	200	ppm
1139	Dichloro-1-fluoroethane, 1,1-; (HCFC-141b; Freon 141)	1717-00-6	500	1 500	2 500	35 000	ppm
1140	Dioxine; (TCDD; 2,3,6,7-tetrachlorodibenzo-p-dioxin)	1746-01-6	0,0006	0,0015	0,0075	0,0075	mg/m3
1141	Acetone thiosemicarbazide	1752-30-3	20	60	100	100	mg/m3
1142	Ammonium thiocyanate	1762-95-4	12,5	35	200	200	mg/m3
1143	Dibutyl phosphite	1809-19-4	12,5	40	250	500	mg/m3
1144	Methoxytrimethylsilane	1825-61-2	0,05	0,5	2	5	ppm
1145	Formic acid, 2-propenyl ester; (Allyl formate)	1838-59-1	4	12,5	75	400	mg/m3
1146	Ammonium benzoate	1863-63-4	3,5	10	75	350	mg/m3
1147	Hexachloropropene	1888-71-7	0,15	0,4	3	15	ppm
1148	Paraquat dichloride; (Paraquat hydrochloride)	1910-42-5	0,1	0,3	1	1	mg/m3
1149	Nitrapyrin; (2-Chloro-6-[trichloromethyl]pyridine)	1929-82-4	15	20	50	400	mg/m3
1150	Potassium glycolate	1932-50-9	7,5	20	150	750	ppm
1151	C.I. Direct Black 38; (Apomine black GX)	1937-37-7	25	75	500	500	mg/m3
1152	Chloroxuron	1982-47-4	2	6	10	500	mg/m3
1153	Valinomycin	2001-95-8	0,5	1,5	2,5	2,5	mg/m3
1154	Methiocarb; (Mercaptodimethur)	2032-65-7	3	7,5	15	15	mg/m3
1155	Paraquat methosulfate; (Paraquat dimethyl sulphate)	2074-50-2	0,75	2	15	40	mg/m3
1156	Phenylsilatrane	2097-19-0	0,2	0,6	1	1	mg/m3
1157	EPN; (0-Ethyl-0-[4-nitrophenyl] phenyl-thiophosphorate)	2104-64-5	0,3	0,3	5	5	mg/m3
1158	Dichlorocyclohexane	2108-92-1	0,25	0,75	6	30	ppm
1159	Dichlorohexane	2162-92-7	0,25	0,75	6	30	ppm
1160	Ethylheptane, 4-	2216-32-2	3	10	60	350	ppm
1161	Cadmium stearate; (Octadecanoic acid, cadmium salt)	2223-93-0	0,03	0,15	12,5	50	mg/m3
1162	Thiocarbazide; (Thiocarbohydrazide)	2231-57-4	20	60	100	100	mg/m3
1163	Octachloronaphthalene	2234-13-1	0,1	0,3	0,5	2,5	mg/m3
1164	Diglycidyl Ether	2238-07-5	0,1	0,5	10	10	ppm
1165	Nonanenitrile; (1-Octyl cyanide)	2243-27-8	25	25	30	150	ppm
1166	Prothoate; (Isopropyl diethyldithiophosphorylacetamide)	2275-18-5	0,35	1	1,7	7,5	mg/m3
1167	Mirex; (Perchloropentacyclodecane)	2385-85-5	0,03	0,075	0,6	100	mg/m3
1168	Potassium nitrilotriacetate (Potassium NTA)	2399-85-1	5	15	100	500	mg/m3
1169	Butyl glycidyl ether, n-	2426-08-6	50	50	50	250	ppm
1170	Auramine; (4.4-[Imidocarbonyl]bis[n.n-dimethylamine])	2465-27-2	10	30	50	60	mg/m3

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No.	Chemical Name	CASRN	Rev. 19 Recommended TEELs				Units of original limits
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
1171	Trimethoxysilane	2487-90-3	0,05	0,5	2	5	ppm
1172	Oxydisulfoton	2497-07-6	0,6	2	3,5	3,5	mg/m3
1173	Dimethyl phosphorochloridothioate	2524-03-0	1,5	4	30	150	mg/m3
1174	Formothion	2540-82-1	0,05	0,15	0,27	10	mg/m3
1175	Sulfur hexafluoride	2551-62-4	1 000	3 000	5 000	5 000	ppm
1176	Nitrocyclohexene, 1-	2562-37-0	0,35	1	7,5	40	ppm
1177	Pentadecylamine	2570-26-5	0,1	0,3	2	100	mg/m3
1178	Methyl demeton methyl; (Phosphorothioic acid, O,O-dimethyl-s-[2-methylthio] ethyl ester)	2587-90-8	4	12,5	20	20	mg/m3
1179	Promecarb; (m-CYM-5-YL methylcarbamate)	2631-37-0	3	10	16	25	mg/m3
1180	Cyanophos	2636-26-2	1,25	3,5	25	25	mg/m3
1181	Azinphos ethyl; (Ethyl guthion)	2642-71-9	0,75	2	4	150	mg/m3
1182	Hydrazine hydrochloride; (Hydrazine monochloride)	2644-70-4	0,0075	0,025	0,04	50	mg/m3
1183	Methylphosphonothioic acid-o-(4-nitrophenyl)-o-phenyl ester	2665-30-7	1,5	5	8	8	mg/m3
1184	HMX ; (Cyclotetramethylene tetranitramine)	2691-41-0	0,06	0,15	1,25	500	mg/m3
1185	Nitrosyl chloride	2696-92-6	0,025	0,075	0,5	2,5	ppm
1186	Chlorobenzylidene malononitrile, o-	2698-41-1	0,4	0,4	0,4	2	mg/m3
1187	Sulfuryl fluoride	2699-79-8	5	10	200	200	ppm
1188	Methylphosphonothioic acid-o-ethyl o-(p-(methylthio)phenyl)ester.	2703-13-1	2	6	10	10	mg/m3
1189	Thallous malonate	2757-18-8	0,125	0,35	2	15	mg/m3
1190	Triheptylamine, 6,6',6''-trimethyl-; (Triisooctylamine)	2757-28-0	10	15	50	500	mg/m3
1191	Muscimol; (5-Aminomethyl-3-isoxyzole)	2763-96-4	3,5	10	17	20	mg/m3
1192	Endothion	2778-04-3	3,5	10	17	17	mg/m3
1193	Ethylene glycol monopropyl ether; (Propyl cellosolve, Ektasolve EP)	2807-30-9	4	12,5	75	400	ppm
1194	Hydroxyethylidine biphosphonic acid, 1-; (1-Hydroxyethylidene-1,1-diphosphonic acid)	2809-21-4	10	30	50	500	mg/m3
1195	Sodium glycolate; (Sodium hydroxyacetate)	2836-32-0	10	30	200	750	ppm
1196	Amino-2-methyl-2-propanol, 1-	2854-16-2	10	30	200	500	mg/m3
1197	Chlorpyrifos; (dursban)	2921-88-2	0,2	0,6	10	75	mg/m3
1198	Ammonium citrate, dibasic	3012-65-5	10	10	10	10	mg/m3
1199	Methylethyl hydroperoxide, 1-; (Isopropyl hydroperoxide)	3031-75-2	0,6	1,5	12,5	60	mg/m3
1200	Aminobutyl)diethoxymethylsilane, (4-	3037-72-7	2	6	45	45	mg/m3
1201	Phosphonic acid, tridodecyl ester	3076-63-9	12,5	40	250	500	mg/m3
1202	Acetylaminofluorenone, 2-	3096-50-2	0,75	2,5	15	75	mg/m3
1203	Ammonium tartrate; (Diammonium tartrate)	3164-29-2	1,5	5	40	200	mg/m3
1204	Sodium-o-benzyl-p-chlorophenate	3184-65-4	10	30	50	250	mg/m3
1205	Octanedione, 2,7-	3214-41-3	20	60	500	500	mg/m3
1206	Potassium tetraphenylborate	3244-41-5	1	3	5	25	mg/m3
1207	Copper nitrate; (Cupric nitrate)	3251-23-8	3	7,5	60	300	mg/m3
1208	Phosphoric acid dimethyl-p-(methylthio)phenyl ester	3254-63-5	1,25	4	7	7	mg/m3
1209	OctaCDD, 1,2,3,4,6,7,8,9-	3268-87-9	0,025	0,075	0,4	0,4	mg/m3

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No.	Chemical Name	CASRN	Rev. 19 Recommended TEELs				Units of original limits
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
1210	Peroxydicarbonic acid, disodium salt	3313-92-6	7,5	25	150	500	mg/m3
1211	Disodium butylphosphonate	3321-64-0	0,02	0,06	0,4	2	mg/m3
1212	Nickel formate	3349-06-2	3	3	3	30	mg/m3
1213	Dichloroamine; (Chlorimide)	3400-09-7	0,25	0,75	6	30	ppm
1214	Dimethoxybutane, 2,2-	3453-99-4	7,5	20	150	750	ppm
1215	Butanediol dinitrate, 1,4-	3457-91-8	0,05	0,125	0,4	3	ppm
1216	Dinitraniline; (Hansa orange RN)	3468-63-1	10	30	50	250	mg/m3
1217	Zinc carbonate	3486-35-9	5	15	100	500	mg/m3
1218	Trimethylhexane, 2,2,5-	3522-94-9	66,8	66,8	343	1 500	ppm
1219	Chloropropyl-n-octylsulfoxide, 3-	3569-57-1	1,5	5	8	500	mg/m3
1220	Dichloro-2-trifluoromethylbenzimidazole, 4,5-; (Chloroflurazole)	3615-21-2	2,5	7,5	13	13	mg/m3
1221	Xylenol orange tetrasodium salt	3618-43-7	10	30	50	250	mg/m3
1222	Lead arsenate	3687-31-8	0,0125	0,0125	0,0125	30	mg/m3
1223	Sulfotep; (TEDP)	3689-24-5	0,2	0,5	3,5	10	mg/m3
1224	Chlorophacinone	3691-35-8	0,2	0,6	1	1	mg/m3
1225	Crotonic Acid	3724-65-0	4	12,5	75	400	mg/m3
1226	Amiton oxalate	3734-97-2	0,6	1,5	3	3	mg/m3
1227	Methyl phencapton	3735-23-7	2	6	11	100	mg/m3
1228	Methyl-4-pentene-2-one, 4-	3744-02-3	25	25	25	1 400	ppm
1229	Potassium chlorate	3811-04-9	12,5	40	300	350	mg/m3
1230	Fuberidazole	3878-19-1	0,6	2	3,3	125	mg/m3
1231	Bitoscanate; (1,4-Phenylenediisothiocyanic acid)	4044-65-9	4	12,5	20	20	mg/m3
1232	Chloroallyl)-3,5,7-triaza-1-azoniaadamantane chloride, 1-(3-	4080-31-3	10	10	20	200	mg/m3
1233	Isophorone diisocyanate	4098-71-9	0,005	0,02	0,135	6	ppm
1234	Phosacetim	4104-14-7	0,75	2	3,7	3,7	mg/m3
1235	Dichlorosilane	4109-96-0	12,5	35	75	75	ppm
1236	Bis(1,1-dimethylethyl)-4-ethylphenol, 2,6-	4130-42-1	4	12,5	75	400	mg/m3
1237	Crotonaldehyde	4170-30-3	0,3	2	10	50	ppm
1238	Methyltriacetoxysilane	4253-34-3	7,5	25	150	500	mg/m3
1239	Diisopropylamino ethylchloride hydrogen chloride	4261-68-1	0,0125	0,035	0,25	1,25	mg/m3
1240	Fluenetil	4301-50-2	1,25	3,5	6	6	mg/m3
1241	Thiobis(4-chloro-6-methyl)-phenol, 2,2'-	4418-66-0	0,25	0,75	1,3	1,3	mg/m3
1242	Tetrapropylammonium hydroxide	4499-86-9	0,15	0,5	3,5	15	mg/m3
1243	Paraquat	4685-14-7	0,15	0,15	0,15	150	mg/m3
1244	Onyxide; (s-Triazine-1,3,5(2H,4H,6H)-triethanol)	4719-04-4	3	10	60	350	mg/m3
1245	Dibutylhexamethylenediamine, N,N'-	4835-11-4	1	3	20	75	mg/m3
1246	Dimethyl--2-pentene, (E)-3,4-	4914-92-5	0,4	1,25	7,5	40	ppm
1247	Aminopyrazine	5049-61-6	0,5	1,5	2,5	5	ppm
1248	C.I. pigment yellow 13; Butanamide, 2,2'-((3,3'-dichloro(1,1'-biphenyl)-4,4'-diyl)bis(azo)biz(N-(2,4-dimethylphenyl)-3-oxo-	5102-83-0	75	250	500	500	mg/m3

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			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
1249	Methylene bis(4-isocyanatocyclohexane), 1,1'-	5124-30-1	0,005	0,005	0,01	0,15	ppm
1250	Methyl trioctyl ammonium chloride	5137-55-3	0,75	2,5	20	100	mg/m3
1251	Sulfamic acid	5329-14-6	12,5	40	250	500	mg/m3
1252	Methoxypropylamine, 3-; (3-MPA)	5332-73-0	5	15	15	75	ppm
1253	Chlorophenyl thiourea, 2-	5344-82-1	0,75	2,5	4,6	4,6	mg/m3
1254	C.I. pigment yellow 14	5468-75-7	20	60	400	500	mg/m3
1255	Hydroxylamine chloride; (Hydroxylamine hydrochloride)	5470-11-1	15	50	60	60	mg/m3
1256	Nitropyrene, 1-	5522-43-0	0,1	0,3	2	10	mg/m3
1257	Tetrabutylammonium dihydrogen phosphate, mono/dibasic, & salt soln.	5574-97-0	10	30	50	250	mg/m3
1258	Tetrabutyl titanate; (Butyl titanate)	5593-70-4	0,75	2,5	20	100	ppm
1259	Sulfur pentafluoride	5714-22-7	0,01	0,01	0,01	1	ppm
1260	Triphenylphosphorane; (Carbethoxyethylidine)	5717-37-3	10	30	50	250	mg/m3
1261	Coumatetralyl; (Endrocide)	5836-29-3	3	10	16,5	16,5	mg/m3
1262	Citric acid monohydrate	5949-29-1	1,5	4	30	150	mg/m3
1263	Tetrapotassium ethylene-diaminetetraacetate; (EDTA)	5964-35-2	4	15	75	400	mg/m3
1264	Sodium carbonate monohydrate	5968-11-6	1,5	5	35	150	mg/m3
1265	Ammonium oxalate monohydrate	5972-73-6	1,5	4	30	150	mg/m3
1266	Limonene, d-	5989-27-5	30	90	150	350	ppm
1267	Sodium glycinate	6000-44-8	1	3,5	25	125	ppm
1268	Ammonium oxalate; (Ammonium oxalate hydrate)	6009-70-7	1,5	4	30	150	mg/m3
1269	Lead,bis(acetato)trihydroxytri- (as Pb)	6080-56-4	0,075	0,25	40	150	mg/m3
1270	Oxalic acid - dihydrate	6153-56-6	1	2	5	500	mg/m3
1271	Phenylxylylethane; (PXE)	6196-95-8	10	30	50	250	mg/m3
1272	Barium diphenylamine sulfonate	6211-24-1	2	6	10	200	mg/m3
1273	Hypophosphorus acid; (Phosphinic acid)	6303-21-5	10	30	50	250	mg/m3
1274	Amino-2,6-dinitrotoluene, 4-; (4-Amino-3,5-dinitrotoluene)	6393-42-6	2,5	7,5	50	250	mg/m3
1275	Dipentyl pentylphosphonate	6418-56-0	10	30	50	500	mg/m3
1276	Propylene glycol dinitrate; (Otto fuel)	6423-43-4	0,05	0,05	0,1	15	ppm
1277	Ammonium nitrate	6484-52-2	10	10	10	500	mg/m3
1278	Thallium carbonate (2:1)	6533-73-9	0,4	1,25	2	10	mg/m3
1279	Chlorocyclohexanol, trans-2-	6628-80-4	3,5	10	75	400	mg/m3
1280	Sodium silicate caustic; (Silicic acid, disodium salt)	6834-92-0	5	15	100	500	mg/m3
1281	Dichloropropene, cis-1,2-; (Propylene dichloride; 1,2-dichloro-1-propene, [Z]-)	6923-20-2	15	50	75	400	ppm
1282	Monocrotophos	6923-22-4	0,05	0,15	0,63	25	mg/m3
1283	Chlorophenyl phenyl ether, 4-	7005-72-3	0,0025	0,0075	0,05	0,25	mg/m3
1284	Nonoxynol-4	7311-27-5	10	30	50	250	mg/m3
1285	Potassium pyrophosphate; (Tetrapotassium diphosphorate)	7320-34-5	10	30	500	500	mg/m3
1286	Dihexyl-N,N-diethylcarbamoyl Methyl Phosphonate	7369-66-6	10	12,5	50	400	mg/m3
1287	Aluminum (powder)	7429-90-5	15	30	50	250	mg/m3

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No.	Chemical Name	CASRN	Rev. 19 Recommended TEELs				Units of original limits
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
1288	Iron	7439-89-6	10	30	50	500	mg/m3
1289	Lanthanum	7439-91-0	10	30	50	250	mg/m3
1290	Lead	7439-92-1	0,05	0,15	0,25	100	mg/m3
1291	Lithium	7439-93-2	10	30	50	400	mg/m3
1292	Magnesium	7439-95-4	10	30	50	250	mg/m3
1293	Manganese	7439-96-5	0,2	3	5	500	mg/m3
1294	Mercury vapor	7439-97-6	0,025	0,1	2,05	4,10	mg/m3
1295	Molybdenum	7439-98-7	10	30	50	500	mg/m3
1296	Nickel	7440-02-0	1	4,5	10	10	mg/m3
1297	Palladium	7440-05-3	10	30	50	250	mg/m3
1298	Platinum	7440-06-4	1	3	4	4	mg/m3
1299	Potassium	7440-09-7	2	2	2	10	mg/m3
1300	Rhodium	7440-16-6	0,1	3	5	100	mg/m3
1301	Ruthenium	7440-18-8	10	30	50	250	mg/m3
1302	Silicon	7440-21-3	15	30	50	500	mg/m3
1303	Silver	7440-22-4	0,01	0,3	0,5	10	mg/m3
1304	Sodium	7440-23-5	0,5	0,5	5	50	mg/m3
1305	Strontium	7440-24-6	10	30	50	250	mg/m3
1306	Thallium (elemental and soluble compounds)	7440-28-0	0,1	0,3	2	15	mg/m3
1307	Thorium	7440-29-1	10	30	50	250	mg/m3
1308	Tin	7440-31-5	2	6	100	100	mg/m3
1309	Titanium	7440-32-6	10	30	50	250	mg/m3
1310	Tungsten	7440-33-7	5	10	10	500	mg/m3
1311	Antimony	7440-36-0	0,5	1,5	25	50	mg/m3
1312	Argon	7440-37-1	70 000	2,10E+05	3,50E+05	5,00E+05	ppm
1313	Argon, cryogenic	7440-37-1	70 000	2,10E+05	3,50E+05	5,00E+05	ppm
1314	Arsenic (organic compounds as As)	7440-38-2	0,5	1,5	2,5	350	mg/m3
1315	Barium	7440-39-3	0,5	1,5	25	125	mg/m3
1316	Beryllium	7440-41-7	0,002	0,005	0,025	0,1	mg/m3
1317	Boron	7440-42-8	2,5	7,5	50	250	mg/m3
1318	Cadmium & compounds	7440-43-9	0,005	0,03	0,5	7,5	mg/m3
1319	Carbon; (Graphite, CASRN 7782-42-5)	7440-44-0	2	6	10	500	mg/m3
1320	Cerium	7440-45-1	10	30	50	250	mg/m3
1321	Cesium	7440-46-2	10	30	50	500	mg/m3
1322	Chromium	7440-47-3	1	1,5	2,5	250	mg/m3
1323	Cobalt	7440-48-4	0,1	0,1	20	20	mg/m3
1324	Copper	7440-50-8	1	3	5	100	mg/m3
1325	Europium	7440-53-1	10	30	50	250	mg/m3
1326	Gallium	7440-55-3	10	30	50	250	mg/m3

Table 3: Recommended TEELs Rev. 19 (by CASRN)

No.	Chemical Name	CASRN	Rev. 19 Recommended TEELs				Units of original limits
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
1327	Gold	7440-57-5	7,5	25	100	100	mg/m3
1328	Hafnium	7440-58-6	0,5	1,5	2,5	50	mg/m3
1329	Helium	7440-59-7	70 000	2,10E+05	3,50E+05	5,00E+05	ppm
1330	Uranium	7440-61-1	0,05	0,6	1	10	mg/m3
1331	Vanadium	7440-62-2	0,025	0,075	2,5	20	mg/m3
1332	Yttrium	7440-65-5	1	3	5	25	mg/m3
1333	Zinc	7440-66-6	10	30	50	250	mg/m3
1334	Zirconium and compounds (as Zr)	7440-67-7	5	10	10	50	mg/m3
1335	Bismuth	7440-69-9	1,5	5	40	200	mg/m3
1336	Calcium	7440-70-2	10	30	50	250	mg/m3
1337	Tellurium oxide; (Tellurium dioxide)	7446-07-3	0,125	0,35	0,6	30	mg/m3
1338	Selenium dioxide	7446-08-4	0,25	0,75	1,25	1,3	mg/m3
1339	Sulfur dioxide	7446-09-5	0,3	0,3	3	15	ppm
1340	Sulfur trioxide	7446-11-9	0,6	2	10	30	mg/m3
1341	Lead sulfate	7446-14-2	0,075	0,225	0,375	150	mg/m3
1342	Thallium(I) sulfate; (Sulfuric acid, dithallium(1+) salt)	7446-18-6	0,0002	0,0006	0,004	0,006	mg/m3
1343	Lead phosphate	7446-27-7	0,06	0,2	30	150	mg/m3
1344	Selenium monosulfide	7446-34-6	0,25	0,75	12,5	15	mg/m3
1345	Aluminum chloride	7446-70-0	10	10	50	500	mg/m3
1346	Copper(II) chloride (1:2); (Cupric chloride)	7447-39-4	2	6	10	10	mg/m3
1347	Potassium chloride	7447-40-7	1,5	5	15	15	mg/m3
1348	Mercury(II) chloride (as Hg)	7487-94-7	0,035	0,125	12,5	12,5	mg/m3
1349	Selenium sulfide; (Se(IV) disulfide (1:2))	7488-56-4	0,35	1	1,5	60	mg/m3
1350	Mercurous chloride (see also MCY300)	7546-30-7	0,03	0,075	0,1	10	mg/m3
1351	Lithium bromide	7550-35-8	1	7	15	500	mg/m3
1352	Titanium tetrachloride	7550-45-0	0,5	5	20	100	mg/m3
1353	Iodine	7553-56-2	0,1	0,1	0,5	5	ppm
1354	Sodium phophate, bibasic	7558-79-4	60	200	500	500	mg/m3
1355	Sodium phosphate monobasic	7558-80-7	35	100	500	500	mg/m3
1356	Dichloroacetylene	7572-29-4	0,1	0,1	4	4	ppm
1357	Lithium hydride	7580-67-8	0,025	0,025	0,1	0,5	mg/m3
1358	Sodium phosphate (tribasic)	7601-54-9	10	30	50	500	mg/m3
1359	Sodium perchlorate	7601-89-0	10	30	50	500	mg/m3
1360	Perchloric acid	7601-90-3	1	3,5	20	100	ppm
1361	Perchloryl fluoride; (Chlorine oxyfluoride)	7616-94-6	3	6	15	100	ppm
1362	Silica, amorphous hydrated	7631-86-9	6	30	50	500	mg/m3
1363	Sodium arsenate	7631-89-2	0,025	0,075	0,125	12,5	mg/m3
1364	Sodium bisulfite	7631-90-5	5	15	25	500	mg/m3
1365	Molybdic acid, disodium salt	7631-95-0	10	30	50	500	mg/m3

Table 3: Recommended TEELs Rev. 19 (by CASRN)

No.	Chemical Name	CASRN	Rev. 19 Recommended TEELs				Units of original limits
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
1366	Sodium nitrate	7631-99-4	0,4	1	7,5	100	mg/m3
1367	Sodium nitrite	7632-00-0	0,04	0,125	1	60	mg/m3
1368	Ammonium citrate	7632-50-0	10	10	30	150	mg/m3
1369	Vanadium tetrachloride	7632-51-1	0,6	2	12,5	60	mg/m3
1370	Ceric ammonium sulfate	7637-03-8	40	125	200	500	mg/m3
1371	Boron trifluoride	7637-07-2	2	2	30	100	mg/m3
1372	Sodium hydride	7646-69-7	10	10	10	10	mg/m3
1373	Stannic chloride; (Tin(IV) chloride; Tin(IV) tetrachloride)	7646-78-8	4	4	7,5	200	mg/m3
1374	Cobalt chloride	7646-79-9	0,125	0,125	20	35	mg/m3
1375	Zinc chloride	7646-85-7	2	4	10	40	mg/m3
1376	Potassium bisulfate	7646-93-7	10	30	200	500	mg/m3
1377	Hydrogen chloride; (Hydrochloric acid)	7647-01-0	0,5	3	20	150	ppm
1378	Palladium chloride	7647-10-1	0,15	0,4	3	500	mg/m3
1379	Sodium chloride	7647-14-5	15	40	300	500	mg/m3
1380	Sodium bromide	7647-15-6	1,5	5	35	500	mg/m3
1381	Cesium chloride	7647-17-8	0,6	2	15	500	mg/m3
1382	Antimony pentachloride	7647-18-9	1,25	3,5	6	125	mg/m3
1383	Phosphorous pentafluoride	7647-19-0	3	3	15	75	ppm
1384	Phosphoric acid	7664-38-2	1	3	5	500	mg/m3
1385	Hydrogen fluoride; (Hydrofluoric acid)	7664-39-3	2	2	20	50	ppm
1386	Ammonia	7664-41-7	25	25	150	750	ppm
1387	Sulfuric acid, Sulfur trioxide (7446-11-9), and Oleum (8014-95-7)	7664-93-9	1	2	10	30	mg/m3
1388	Potassium iodide	7681-11-0	0,25	0,75	6	300	mg/m3
1389	Sodium bisulfate; (Sodium acid sulfate)	7681-38-1	1,25	3,5	25	125	mg/m3
1390	Sodium fluoride	7681-49-4	5	5	5	75	mg/m3
1391	Sodium hypochlorite	7681-52-9	25	75	500	500	mg/m3
1392	Sodium iodate	7681-55-2	1,5	1,5	1,5	25	mg/m3
1393	Sodium metabisulfite	7681-57-4	5	15	25	100	mg/m3
1394	Sodium iodide	7681-82-5	0,75	2,5	15	500	mg/m3
1395	Nitric acid WFNA; (White Fuming)	7697-37-2	1	1	6	78	ppm
1396	Silicic acid	7699-41-4	10	10	50	400	mg/m3
1397	Zinc bromide	7699-45-8	10	30	50	200	mg/m3
1398	Sulfur	7704-34-9	0,125	0,4	2,5	12,5	mg/m3
1399	Titanium hydride	7704-98-5	1,5	5	35	150	mg/m3
1400	Titanium chloride	7705-07-9	0,5	1,5	10	50	mg/m3
1401	Ferric chloride	7705-08-0	3	7,5	15	200	mg/m3
1402	Nickel chloride; (Nickelous chloride)	7718-54-9	0,6	0,6	1	20	mg/m3
1403	Thionyl chloride	7719-09-7	0,2	0,2	2	10	ppm
1404	Phosphorus trichloride	7719-12-2	0,5	0,5	4,99	25	ppm

Table 3: Recommended TEELs Rev. 19 (by CASRN)

No.	Chemical Name	CASRN	Rev. 19 Recommended TEELs				Units of original limits
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
1405	Ferrous sulfate	7720-78-7	2,5	7,5	12,5	350	mg/m3
1406	Potassium permanganate	7722-64-7	0,6	7,5	15	125	mg/m3
1407	Ammonium dihydrogen phosphate; (Monoammonium phosphate)	7722-76-1	15	50	350	500	mg/m3
1408	Hydrogen peroxide	7722-84-1	1	10	50	100	ppm
1409	Tetrasodium pyrophosphate	7722-88-5	5	15	25	500	mg/m3
1410	Phosphorus (red)	7723-14-0	0,1	0,3	0,5	4	mg/m3
1411	Phosphorus (yellow)	7723-14-1	0,1	0,3	3	5	mg/m3
1412	Bromine	7726-95-6	0,1	0,1	0,5	5	ppm
1413	Potassium persulfate; (Dipotassium persulfate)	7727-21-1	0,1	0,3	0,5	350	mg/m3
1414	Nitrogen	7727-37-9	70 000	2,10E+05	3,50E+05	5,00E+05	ppm
1415	Barium sulfate	7727-43-7	15	30	50	250	mg/m3
1416	Ammonium persulfate	7727-54-0	0,1	0,3	0,5	100	mg/m3
1417	Zinc sulfate	7733-02-0	0,15	0,5	3,5	500	mg/m3
1418	Chromic(VI) acid	7738-94-5	0,1	0,2	0,2	35	mg/m3
1419	Potassium nitrate	7757-79-1	1	3,5	20	500	mg/m3
1420	Sodium sulfate (anhydrous)	7757-82-6	10	30	500	500	mg/m3
1421	Sodium sulfite	7757-83-7	10	30	50	100	mg/m3
1422	Potassium bromate	7758-01-2	2	6	40	125	mg/m3
1423	Potassium bromide	7758-02-3	12,5	40	250	500	mg/m3
1424	Potassium iodate	7758-05-6	20	60	60	60	mg/m3
1425	Potassium nitrite	7758-09-0	0,04	0,1	0,75	500	mg/m3
1426	Potassium phosphate, dibasic	7758-11-4	10	30	50	250	mg/m3
1427	Sodium pyrophosphate, di-; (see also TEE500 for tetra-)	7758-16-9	10	30	50	500	mg/m3
1428	Sodium tripolyphosphate	7758-29-4	10	30	50	500	mg/m3
1429	Cerium fluoride	7758-88-5	7,5	25	40	500	mg/m3
1430	Copper(I) chloride; (Cuprous chloride)	7758-89-6	1,5	4	7,5	60	mg/m3
1431	Ferrous chloride	7758-94-3	2	6	10	200	mg/m3
1432	Lead chloride	7758-95-4	0,06	0,2	3,5	125	mg/m3
1433	Lead chromate	7758-97-6	0,075	0,2	0,35	75	mg/m3
1434	Copper sulfate	7758-98-7	2,5	2,5	6	40	mg/m3
1435	Copper(II) sulfate pentahydrate	7758-99-8	4	10	20	200	mg/m3
1436	Strontium sulfate	7759-02-6	10	30	50	250	mg/m3
1437	Silver nitrate	7761-88-8	0,015	0,045	0,075	15	mg/m3
1438	Sodium thiosulfate	7772-98-7	10	30	50	500	mg/m3
1439	Stannous chloride; (Tin(II) chloride (1:2))	7772-99-8	3	10	15	150	mg/m3
1440	Manganese(II) chloride (1:2); (Manganous chloride)	7773-01-5	0,4	6	10	100	mg/m3
1441	Ammonium sulfamate	7773-06-0	10	30	50	500	mg/m3
1442	Mercuric iodide; (Mercury(II) iodide)	7774-29-0	0,05	0,15	0,2	20	mg/m3
1443	Sodium chromate(VI); (Disodium chromate)	7775-11-3	0,15	0,3	0,3	40	mg/m3

Table 3: Recommended TEELs Rev. 19 (by CASRN)

No.	Chemical Name	CASRN	Rev. 19 Recommended TEELs				Units of original limits
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
1444	Sodium hydrosulfite	7775-14-6	10	30	50	250	mg/m3
1445	Sodium metaborate	7775-19-1	6	15	30	500	mg/m3
1446	Calcium sulfate	7778-18-9	15	30	50	250	mg/m3
1447	Arsenic acid; (o-arsenic acid)	7778-39-4	0,015	0,045	0,075	7,5	mg/m3
1448	Calcium Arsenate	7778-44-1	0,01	0,03	10	10	mg/m3
1449	Potassium dichromate	7778-50-9	0,125	0,25	2,5	40	mg/m3
1450	Potassium phosphate, tribasic	7778-53-2	10	30	50	500	mg/m3
1451	Calcium hypochlorite; (Calcium oxychloride)	7778-54-3	10	10	50	350	mg/m3
1452	Potassium phosphate, monobasic	7778-77-0	10	30	50	500	mg/m3
1453	Potassium sulfate (2:1)	7778-80-5	2	6	40	500	mg/m3
1454	Zinc nitrate	7779-88-6	10	10	10	10	mg/m3
1455	Zinc phosphate	7779-90-0	2	6	50	250	mg/m3
1456	Fluorine	7782-41-4	0,1	0,5	5	20	ppm
1457	Graphite; (Carbon, CASRN 7440-44-0)	7782-42-5	2	6	10	500	mg/m3
1458	Oxygen (liquid)	7782-44-7	2,50E+05	5,00E+05	7,50E+05	1,00E+06	ppm
1459	Selenium	7782-49-2	0,2	0,6	1	1	mg/m3
1460	Chlorine	7782-50-5	0,5	1	3	20	ppm
1461	Ferric nitrate; (Iron(III) nitrate nonahydrate (1:3:9))	7782-61-8	7,5	22,5	37,5	500	mg/m3
1462	Ferrous sulfate heptahydrate	7782-63-0	5	15	25	500	mg/m3
1463	Germane; (Germanium tetrahydride)	7782-65-2	0,2	0,6	1	150	ppm
1464	Iodic acid (as iodine)	7782-68-5	0,125	0,125	0,125	2,5	mg/m3
1465	Nitrous acid	7782-77-6	1	3	15	200	mg/m3
1466	Sodium phosphate dibasic heptahydrate	7782-85-6	50	150	500	500	mg/m3
1467	Mercuric nitrate monohydrate	7782-86-7	0,035	0,125	0,125	12,5	mg/m3
1468	Sulfurous acid	7782-99-2	0,0125	0,04	0,3	1,5	mg/m3
1469	Selenious acid	7783-00-8	0,3	1	1,5	1,5	mg/m3
1470	Tungstic acid	7783-03-1	6	12,5	12,5	12,5	mg/m3
1471	Hydrogen sulfide	7783-06-4	10	15	30	100	ppm
1472	Hydrogen selenide	7783-07-5	0,05	0,05	0,2	2	ppm
1473	Ammonium thiosulfate; (Ammonium hyposulfite)	7783-18-8	10	30	50	500	mg/m3
1474	Ammonium sulfate	7783-20-2	40	125	500	500	mg/m3
1475	Ammonium phosphate dibasic	7783-28-0	10	30	50	250	mg/m3
1476	Mercuric sulfate; (Mercury (II) sulfate)	7783-35-9	0,035	0,15	0,15	15	mg/m3
1477	Magnesium fluoride	7783-40-6	4	12,5	20	400	mg/m3
1478	Oxygen difluoride; (Fluorine monoxide)	7783-41-7	0,05	0,05	0,05	0,5	ppm
1479	Lead fluoride	7783-46-2	0,06	0,15	3	100	mg/m3
1480	Zinc fluoride	7783-49-5	6	6	20	100	mg/m3
1481	Ferric fluoride	7783-50-8	15	40	75	500	mg/m3
1482	Gallium trifluoride	7783-51-9	5	15	25	125	mg/m3

Table 3: Recommended TEELs Rev. 19 (by CASRN)

No.	Chemical Name	CASRN	Rev. 19 Recommended TEELs				Units of original limits
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
1483	Nitrogen trifluoride	7783-54-2	10	10	40	1 000	ppm
1484	Phosphorous trifluoride	7783-55-3	4	4	20	150	ppm
1485	Antimony trifluoride	7783-56-4	0,75	2,25	3,75	75	mg/m3
1486	Sulfur tetrafluoride	7783-60-0	0,1	0,1	2,08	2,08	ppm
1487	Silicon tetrafluoride; (Tetrafluorosilane)	7783-61-1	0,75	2,25	3,75	100	ppm
1488	Titanium(III) fluoride	7783-63-3	4	4	4	4	mg/m3
1489	Zirconium fluoride	7783-64-4	7,5	15	15	75	mg/m3
1490	Antimony pentafluoride	7783-70-2	0,75	0,75	2,7	75	mg/m3
1491	Tantalum(V) fluoride	7783-71-3	7,5	20	35	100	mg/m3
1492	Selenium hexafluoride	7783-79-1	0,125	0,35	0,6	5	ppm
1493	Tellurium hexafluoride	7783-80-4	0,035	0,1	0,101	1,5	ppm
1494	Uranium hexafluoride; (Uranium fluoride)	7783-81-5	0,075	5	15	30	mg/m3
1495	Tungsten hexafluoride	7783-82-6	1,5	5	7,5	400	mg/m3
1496	Ammonium ferrous sulfate	7783-85-9	1	3	5	500	mg/m3
1497	Silver chloride	7783-90-6	10	30	50	500	mg/m3
1498	Silver nitrite; (Silver(I) nitrite)	7783-99-5	0,0125	0,04	0,06	12,5	mg/m3
1499	Aluminum fluoride (as Al)	7784-18-1	6	6	7,5	40	mg/m3
1500	Ammonium aluminum fluoride; (Triammonium hexafluoroaluminate)	7784-19-2	4	4	4	15	mg/m3
1501	Aluminum(III) nitrate nonahydrate (1:3:9) (As sol. Al)	7784-27-2	25	25	125	500	mg/m3
1502	Aluminum phosphate; (Phosphoric acid, aluminum salt (1:1),solution)	7784-30-7	7,5	22,5	37,5	500	mg/m3
1503	Arsenous trichloride	7784-34-1	0,025	0,075	1,35	12,5	ppm
1504	Lead acid arsenate; (Dibasic lead arsenate)	7784-40-9	0,075	0,25	40	150	mg/m3
1505	Potassium arsenate	7784-41-0	0,025	0,075	0,125	12,5	mg/m3
1506	Arsine	7784-42-1	0,05	0,075	0,5	1,5	ppm
1507	Sodium arsenite	7784-46-5	0,015	0,045	0,075	7,5	mg/m3
1508	Sodium phosphate, tribasic; (Sodium trimetaphosphate)	7785-84-4	15	40	300	500	mg/m3
1509	Manganous sulfate (as Mn)	7785-87-7	0,5	7,5	12,5	500	mg/m3
1510	Magnesium chloride	7786-30-3	10	30	50	500	mg/m3
1511	Mevinphos; (Phosdrin(R))	7786-34-7	0,1	0,27	4	4	mg/m3
1512	Nickel sulfate; (Nickel(II) sulfate)	7786-81-4	2,5	2,5	2,5	25	mg/m3
1513	Barium fluoride	7787-32-8	0,6	2	3	100	mg/m3
1514	Barium permanganate	7787-36-2	1,25	7,5	12,5	500	mg/m3
1515	Beryllium chloride	7787-47-5	0,015	0,04	0,2	35	mg/m3
1516	Beryllium fluoride	7787-49-7	0,01	0,025	0,125	20	mg/m3
1517	Bismuth oxychloride	7787-59-9	75	250	500	500	mg/m3
1518	Bromine trifluoride	7787-71-5	6	15	30	500	mg/m3
1519	Ammonium chromate	7788-98-9	0,05	0,1	0,1	15	mg/m3
1520	Potassium chromate(VI)	7789-00-6	0,15	0,35	3,5	50	mg/m3
1521	Chromium nitrate nonahydrate	7789-02-8	4	10	20	200	mg/m3

Table 3: Recommended TEELs Rev. 19 (by CASRN)

No.	Chemical Name	CASRN	Rev. 19 Recommended TEELs				Units of original limits
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
1522	Ammonium dichromate (as Cr(VI))	7789-09-5	0,125	0,25	0,25	35	mg/m3
1523	Sodium dichromate dihydrate	7789-12-0	0,15	0,3	0,3	40	mg/m3
1524	Cesium iodide	7789-17-5	10	30	200	500	mg/m3
1525	Cesium nitrate	7789-18-6	10	30	200	500	mg/m3
1526	Deuterium oxide; (Heavy water)	7789-20-0	2 000	6 000	40 000	2,00E+05	ppm
1527	Potassium fluoride	7789-23-3	7,5	20	40	500	mg/m3
1528	Lithium fluoride	7789-24-4	3,5	10	15	350	mg/m3
1529	Bromine pentafluoride	7789-30-2	0,1	0,3	0,5	35	ppm
1530	Sodium bromate	7789-38-0	0,6	1,5	12,5	60	mg/m3
1531	Rubidium bromide	7789-39-1	10	30	50	250	mg/m3
1532	Cadmium bromide	7789-42-6	0,0125	0,075	4	20	mg/m3
1533	Cobaltous bromide; (Cobalt[II] bromide)	7789-43-7	0,2	0,2	0,35	150	mg/m3
1534	Calcium fluoride	7789-75-5	5	15	25	500	mg/m3
1535	Calcium hydride	7789-78-8	3	9	15	75	mg/m3
1536	Potassium tellurite	7790-58-1	0,2	0,6	1	15	mg/m3
1537	Potassium selenate	7790-59-2	0,5	1,5	2,5	2,5	mg/m3
1538	Potassium tungstate (liquids)	7790-60-5	1,5	5	5	5	mg/m3
1539	Potassium tungstate (solids)	7790-60-6	1,5	5	5	5	mg/m3
1540	Potassium pyrosulfate; (Disulfuric acid, dipotassium salt)	7790-62-7	10	30	50	250	mg/m3
1541	Lithium nitrate	7790-69-4	10	10	10	10	mg/m3
1542	Cadmium fluoride	7790-79-6	0,006	0,04	4	12,5	mg/m3
1543	Cadmium tungstate	7790-85-4	0,015	0,1	4	30	mg/m3
1544	Cerium chloride	7790-86-5	7,5	25	150	500	mg/m3
1545	Chlorine trifluoride	7790-91-2	0,1	0,1	1	10	ppm
1546	Chlorosulfonic acid; (Chlorosulfuric acid)	7790-94-5	1,43	2	10	30	mg/m3
1547	Ammonium perchlorate	7790-98-9	5	15	100	500	mg/m3
1548	Rubidium chloride	7791-11-9	0,015	0,05	0,35	500	mg/m3
1549	Thallium chloride; (Thallium(I) chloride)	7791-12-0	0,4	1,25	2	10	mg/m3
1550	Nickel(II) chloride hexahydrate	7791-20-0	1,25	1,25	20	40	mg/m3
1551	Selenium oxychloride	7791-23-3	0,4	1,25	4	4	mg/m3
1552	Ethylene glycol mono-sec-butyl ether	7795-91-7	3	10	60	350	mg/m3
1553	Hydroxylamine	7803-49-8	0,25	0,75	5	25	mg/m3
1554	Phosphine	7803-51-2	0,3	0,5	0,5	5	ppm
1555	Stibine	7803-52-3	0,1	0,1	0,5	1,5	ppm
1556	Ammonium vanadate; (Ammonium vanadium oxide; Ammonium metavanadate)	7803-55-6	0,03	0,1	0,3	3,5	mg/m3
1557	Hydrazine monohydrate	7803-57-8	0,0015	0,004	0,03	25	ppm
1558	Silane	7803-62-5	5	15	25	4 000	ppm
1559	Ammonium bisulfate; (Ammonium hydrogen sulfate)	7803-63-6	10	10	10	10	mg/m3
1560	Linseed oil	8001-26-1	0,5	1,5	10	60	mg/m3

Table 3: Recommended TEELs Rev. 19 (by CASRN)

No.	Chemical Name	CASRN	Rev. 19 Recommended TEELs				Units of original limits
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
1561	Toxaphene; (Chlorinated camphene)	8001-35-2	0,5	1	20	200	mg/m3
1562	Creosote (coal tar)	8001-58-9	0,2	0,6	80	80	mg/m3
1563	Castor oil	8001-79-4	0,125	0,4	3	15	mg/m3
1564	Petroleum distillates; (see PCR250)	8002-05-8	350	350	500	500	mg/m3
1565	Petroleum; (Petroleum crude oil; see also PCS 250)	8002-05-9	500	500	500	500	mg/m3
1566	Paraffin, n-	8002-74-2	2	6	10	500	mg/m3
1567	Gasoline	8006-61-9	300	500	500	1 500	ppm
1568	Coal tar, aerosol	8007-45-2	0,1	1,25	7,5	40	mg/m3
1569	Coal tar; (Coal tar volatiles)	8007-45-3	0,2	0,6	1	80	mg/m3
1570	Aqua regia (75% hydrochloric + 25% nitric acid)	8007-56-5	0,75	4	30	150	mg/m3
1571	Kerosene	8008-20-6	100	100	400	400	mg/m3
1572	Mineral oil; (Oil mist [mineral])	8012-95-1	5	10	10	500	mg/m3
1573	Oleum; (fuming sulfuric acid)	8014-95-7	1	2	10	30	mg/m3
1574	Naphtha (coal tar)	8030-30-6	100	100	500	1 000	ppm
1575	Petroleum spirits; (VM & P Naphtha)	8032-32-4	300	300	395	395	ppm
1576	Mineral oil, white	8042-47-5	10	30	500	500	mg/m3
1577	Mineral spirits (85% nonane+15% trimethyl benzene=Stoddard solvent)	8052-41-3	500	500	500	500	mg/m3
1578	Asphalt; (Bitumen; see also Petroleum asphalt)	8052-42-4	0,5	1,5	50	250	mg/m3
1579	Petroleum asphalt (see ARO500)	8052-42-5	0,5	1,5	50	250	mg/m3
1580	Lignosulfonate (aqueous)	8062-15-5	10	30	500	500	mg/m3
1581	Demeton	8065-48-3	0,1	0,15	2	10	mg/m3
1582	Agar	9002-18-0	500	500	500	500	mg/m3
1583	Polyvinyl chloride	9002-86-2	6	18	300	500	mg/m3
1584	Polyethylene	9002-88-4	10	30	50	500	mg/m3
1585	Triton X-100; (Poly(oxyethjylene)-p-tert-octylphenyl ether)	9002-93-1	15	40	300	500	mg/m3
1586	Acrylic acid polymers; (Acrylic polymer or resin)	9003-01-4	10	30	200	500	mg/m3
1587	Polypropylene-polyethylene glycols	9003-11-6	10	30	200	500	mg/m3
1588	Vinyl acetate-vinyl chloride copolymer; (Acetic acid, vinyl ester, polymer with chloroethylene)	9003-22-9	35	100	500	500	mg/m3
1589	Polystyrene resin; (Styrene polymer)	9003-53-6	10	30	50	250	mg/m3
1590	Cellulose	9004-34-6	15	30	500	500	mg/m3
1591	Dextran	9004-54-0	0,35	1	6	500	mg/m3
1592	Methylcellulose	9004-67-5	10	30	50	500	mg/m3
1593	Pyroxylin; (Cellulose tetranitrate)	9004-70-0	10	30	50	500	mg/m3
1594	Thyodene; (Amylodextrin)	9005-84-9	10	30	50	250	mg/m3
1595	Polyurethane foam; (Urethane polymers)	9009-54-5	0,2	0,6	5	25	mg/m3
1596	Ricin	9009-86-3	0,025	0,075	0,5	1,5	mg/m3
1597	Ethoxylated p-nonylphenol; (Nonyl phenyl polyethylene glycol ether)	9016-45-9	5	15	100	500	mg/m3
1598	Polyoxyethylene monooctylphenyl ether	9036-19-5	15	50	350	500	mg/m3
1599	Polyoxyalkyleneamine; (Poly(oxypropylene)diamine)	9046-10-0	10	30	50	100	mg/m3

Table 3: Recommended TEELs Rev. 19 (by CASRN)

No.	Chemical Name	CASRN	Rev. 19 Recommended TEELs				Units of original limits
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
1600	Dipotassium metasilicate	10006-28-7	6	15	125	500	mg/m3
1601	Barium nitrate	10022-31-8	0,75	2,5	4	75	mg/m3
1602	Cadmium nitrate tetrahydrate	10022-68-1	0,0125	0,075	4	25	mg/m3
1603	Sodium hypochlorite pentahydrate	10022-70-5	0,075	0,2	1,5	500	mg/m3
1604	Neodymium (III) chloride	10024-93-8	0,06	0,15	1,25	6	ppm
1605	Nitrous oxide	10024-97-2	50	150	10 000	20 000	ppm
1606	Sulfur monochloride	10025-67-9	1	1	1	5	ppm
1607	Chromic chloride; (Chromium(III) chloride)	10025-73-7	1,5	4	7,5	75	mg/m3
1608	Ferric chloride hexahydrate	10025-77-1	5	5	20	100	mg/m3
1609	Trichlorosilane	10025-78-2	0,35	1	3	25	ppm
1610	Indium trichloride	10025-82-8	0,2	0,6	1	1	mg/m3
1611	Trichloroamine; (Nitrogen chloride)	10025-85-1	0,125	0,35	2,5	25	ppm
1612	Phosphorus oxychloride	10025-87-3	0,1	0,479	0,5	3	ppm
1613	Antimony trichloride	10025-91-9	0,75	0,75	0,75	75	mg/m3
1614	Tetrachlorosilane; (Silicon chloride)	10026-04-7	0,25	0,75	5	37	ppm
1615	Tellurium chloride	10026-07-0	0,2	0,6	10	50	mg/m3
1616	Zirconium chloride	10026-11-6	12,5	25	25	125	mg/m3
1617	Niobium chloride	10026-12-7	6	15	125	500	mg/m3
1618	Phosphorus pentachloride	10026-13-8	1	2	4,25	70	mg/m3
1619	Ozone	10028-15-6	0,1	0,1	1	5	ppm
1620	Ferric sulfate; (Iron(III) sulfate)	10028-22-5	0,6	2	15	75	mg/m3
1621	Lead(II) arsenite	10031-13-7	0,025	0,075	0,125	12,5	mg/m3
1622	Lead bromide	10031-22-8	0,075	0,25	0,4	150	mg/m3
1623	Erbium nitrate pentahydrate	10031-51-3	10	30	50	250	mg/m3
1624	Thallium sulfate; (Sulfuric acid, dithallium(1+) salt)	10031-59-1	0,1	0,3	2	15	mg/m3
1625	Anhydrone; (Magnesium perchlorate)	10034-81-8	10	15	50	500	mg/m3
1626	Hydriodic acid 4 (as iodine)	10034-85-2	0,035	0,1	0,5	5	ppm
1627	Hydrazine sulfate	10034-93-2	0,6	2	15	250	mg/m3
1628	Calcium chloride dihydrate	10035-04-8	40	125	500	500	mg/m3
1629	Hydrobromic acid; (Hydrogen bromide)	10035-10-6	3	3	3	30	ppm
1630	Tetrafluorohydrazine	10036-47-2	0,75	2,25	3,75	100	ppm
1631	Sodium phosphate, dibasic dodecahydrate	10039-32-4	1,5	5	35	150	mg/m3
1632	Hydroxylamine sulfate; (Oxammonium sulfate)	10039-54-0	4	10	75	400	mg/m3
1633	Strontium nitrate	10042-76-9	10	30	50	500	mg/m3
1634	Aluminum sulfate (Soluble salt, as Al)	10043-01-3	12,5	35	60	500	mg/m3
1635	Boric acid	10043-35-3	10	30	50	125	mg/m3
1636	Calcium chloride	10043-52-4	1	3,5	20	400	mg/m3
1637	Aluminum potassium sulfate	10043-67-1	20	60	100	500	mg/m3
1638	Ferric phosphate	10045-86-0	2,5	7,5	12,5	60	mg/m3

Table 3: Recommended TEELs Rev. 19 (by CASRN)

No.	Chemical Name	CASRN	Rev. 19 Recommended TEELs				Units of original limits
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
1639	Ferrous ammonium sulfate	10045-89-3	5	15	25	125	mg/m3
1640	Mercury nitrate; (Mercury[II] nitrate [1:2])	10045-94-0	0,04	0,15	0,15	15	mg/m3
1641	Neodymium nitrate	10045-95-1	7,5	25	150	500	mg/m3
1642	Barium hydrogen phosphate; (Barium phosphate dibasic)	10048-98-3	0,75	2,5	4	20	mg/m3
1643	Chlorine dioxide	10049-04-4	0,1	0,3	0,5	3	ppm
1644	Chromous chloride; (Chromium[II] chloride[1:2])	10049-05-5	1	3,5	6	500	mg/m3
1645	Ruthenium trichloride	10049-08-8	1,5	4	30	150	mg/m3
1646	Tellurous acid	10049-23-7	0,125	0,4	0,6	35	mg/m3
1647	Cis-1,3-dichloropropene; (Mixture of cis and trans, CASRN 542-75-6)	10061-01-5	1	2,5	5	12,5	ppm
1648	Dichloropropene, trans-1,3-	10061-02-6	1	3	5	25	ppm
1649	Silicon (II) oxide	10097-28-6	10	30	50	250	mg/m3
1650	Lanthanum nitrate	10099-59-9	0,4	1,25	7,5	500	mg/m3
1651	Lead nitrate	10099-74-8	0,075	0,225	0,375	150	mg/m3
1652	Chromic sulfate; (Chromium(III) sulfate (2:3)	10101-53-8	1,5	2	7,5	75	mg/m3
1653	Lead iodide	10101-63-0	0,1	0,35	0,5	200	mg/m3
1654	Sodium tellurate	10101-83-4	0,15	0,5	0,75	150	mg/m3
1655	Sodium phosphate, tribasic dodecahydrate	10101-89-0	10	30	50	500	mg/m3
1656	Nickel sulfate hexahydrate; (Nickel(II) sulfate hexahydrate)	10101-97-0	1,25	1,25	2	40	mg/m3
1657	Zinc nitrite	10102-02-0	0,035	0,075	0,6	60	mg/m3
1658	Uranyl nitrate (solid)	10102-06-4	0,075	1	1,5	15	mg/m3
1659	Sodium thiosulfate pentahydrate	10102-17-7	10	30	50	500	mg/m3
1660	Sodium selenite	10102-18-8	0,4	1,25	2,3	3	mg/m3
1661	Sodium tellurite	10102-20-2	0,15	0,5	7,5	25	mg/m3
1662	Sodium molybdate dihydrate; (Disodium molybdate dihydrate)	10102-40-6	3,5	3,5	200	200	mg/m3
1663	Nitric oxide	10102-43-9	24,5	24,5	25	100	ppm
1664	Nitrogen dioxide	10102-44-0	3	5	5	20	ppm
1665	Thallium nitrate; (Thallium(I) nitrate)	10102-45-1	0,125	0,4	6	20	mg/m3
1666	Calcium phosphate; (Tricalcium phosphate)	10103-46-5	7,5	20	35	350	mg/m3
1667	Cadmium chloride	10108-64-2	0,0075	0,05	0,075	15	mg/m3
1668	Cerous nitrate; (Cerium(III) nitrate)	10108-73-3	1	3	20	500	mg/m3
1669	Potassium sulfite	10117-38-1	10	30	50	250	mg/m3
1670	Cadmium sulfate	10124-36-4	0,0075	0,05	4	15	mg/m3
1671	Calcium(II) nitrate	10124-37-5	1,25	3,5	25	125	mg/m3
1672	Potassium arsenite	10124-50-2	0,05	0,15	0,25	25	mg/m3
1673	Manganese phosphate	10124-54-6	0,4	6	10	500	mg/m3
1674	Sodium phosphate, tribasic; (Sodium hexametaphosphate; Calgon)	10124-56-8	25	75	500	500	mg/m3
1675	Europium nitrate; (Europium trinitrate)	10138-01-9	15	50	350	500	mg/m3
1676	Dichloroethanol acetate, 1,2-	10140-87-1	0,35	1	1,71	6	ppm
1677	Cobalt nitrate; (Cobalt(II) nitrate)	10141-05-6	0,15	0,15	3	150	mg/m3

Table 3: Recommended TEELs Rev. 19 (by CASRN)

No.	Chemical Name	CASRN	Rev. 19 Recommended TEELs				Units of original limits
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
1678	Dysprosium nitrate	10143-38-1	10	30	50	500	mg/m3
1679	Dimethoxybutane, 1,3-	10143-66-5	7,5	25	150	750	ppm
1680	Erbium(III) nitrate	10168-80-6	0,2	0,6	5	25	mg/m3
1681	Gadolinium nitrate, solid	10168-81-7	10	30	50	500	mg/m3
1682	Ammonium bisulfite; (Ammonium sulfite)	10192-30-0	10	10	10	10	mg/m3
1683	Ammonium sulfite	10196-04-0	10	10	10	10	mg/m3
1684	Cobalt carbonyl	10210-68-1	0,27	0,27	25	60	mg/m3
1685	Propylene glycol mono-n-butyl ether; (3-butoxy-1-propanol)	10215-33-5	10	10	10	10	ppm
1686	Hydrazine hydrate, aequeous solutions	10217-52-4	0,02	0,04	0,04	0,04	mg/m3
1687	Methamidophos	10265-92-6	3,5	10	60	60	mg/m3
1688	Boron tribromide	10294-33-4	1	1	1	5	ppm
1689	Boron trichloride	10294-34-5	0,1	0,3	2,09	2,5	ppm
1690	Barium chromate	10294-40-3	0,25	0,5	0,5	75	mg/m3
1691	Cerium nitrate hexahydrate	10294-41-4	15	50	350	500	mg/m3
1692	Dialifor	10311-84-9	1	3	5	5	mg/m3
1693	Cadmium nitrate	10325-94-7	0,01	0,06	4	15	mg/m3
1694	Sodium metaphosphate	10361-03-2	3,5	10	75	350	mg/m3
1695	Barium chloride	10361-37-2	0,5	1,5	2,5	50	mg/m3
1696	Bismuth hydroxide	10361-43-0	1	1	3	100	mg/m3
1697	Bismuth nitrate	10361-44-1	1,25	4	25	500	mg/m3
1698	Praseodymium nitrate	10361-80-5	7,5	20	150	500	mg/m3
1699	Samarium nitrate	10361-83-8	7,5	25	150	500	mg/m3
1700	Lithium sulfate	10377-48-7	0,15	0,5	3,5	500	mg/m3
1701	Magnesium nitrate; (Magnesium(II) nitrate (1:2))	10377-60-3	10	30	50	250	mg/m3
1702	Manganese(II) nitrate	10377-66-9	0,6	10	15	500	mg/m3
1703	Nickel(II) phosphate	10381-36-9	0,6	0,6	1	10	mg/m3
1704	Mercurous nitrate; (Mercury[1] nitrate[1:1])	10415-75-5	0,03	0,125	0,125	12,5	mg/m3
1705	Ferric nitrate; (Iron salts, soluble)	10421-48-4	4	12,5	20	100	mg/m3
1706	Potassium selenite	10431-47-7	0,5	0,5	0,5	2,5	mg/m3
1707	Methacrolein diacetate; (Acetic acid-2-methyl-propene-1,1-diol diester)	10476-95-6	7,5	25	44	44	mg/m3
1708	Nitrogen tetroxide	10544-72-6	3	5	5	20	ppm
1709	Nitrogen trioxide; (Dinitrogen trioxide)	10544-73-7	25	50	100	500	ppm
1710	Sodium dichromate; (Disodium dichromate)	10588-01-9	0,125	0,25	25	35	mg/m3
1711	Monochloroamine; (Chloramide)	10599-90-3	0,2	0,6	4	20	ppm
1712	Lithium aluminum oxide; (Lithium aluminate)	11089-89-7	10	30	50	250	mg/m3
1713	Polychlorinated biphenyl (Aroclor 1260); (Chlorodiphenyl (60% Cl))	11096-82-5	0,3	0,75	5	5	mg/m3
1714	Polychlorinated biphenyl (Aroclor 1254); (Chlorodiphenyl (54% Cl))	11097-69-1	0,5	1,5	2,5	5	mg/m3
1715	Polychlorinated biphenyl (Aroclor 1268); (Chlorodiphenyl (68% Cl))	11100-14-4	0,2	0,6	1	5	mg/m3
1716	Polychlorinated biphenyl (Aroclor 1221); (Chlorodiphenyl (21% Cl))	11104-28-2	0,2	0,6	1	5	mg/m3

Table 3: Recommended TEELs Rev. 19 (by CASRN)

No.	Chemical Name	CASRN	Rev. 19 Recommended TEELs				Units of original limits
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
1717	Sodium antimonate; (Antimonic acid, sodium salt)	11112-10-0	1	3	5	100	mg/m3
1718	Yttrium oxide	11130-29-3	1	3	5	500	mg/m3
1719	Sodium-Potassium	11135-81-2	0,5	0,5	5	50	mg/m3
1720	Sodium aluminate; (Aluminum sodium oxide)	11138-49-1	2	6	10	500	mg/m3
1721	Polychlorinated biphenyl (Aroclor 1232): (Chlorodiphenyl [32% Cl])	11141-16-5	0,2	0,6	1	5	mg/m3
1722	Mica; (Silicates [SCM500])	12001-26-2	3	9	15	75	mg/m3
1723	Crocidolite	12001-28-4	0,005	0,015	5	250	mg/m3
1724	Asbestos (Chrysotile)	12001-29-5	0,005	0,5	50	250	mg/m3
1725	Paris Green; (Cupric acetoarsenite)	12002-03-8	1	3,5	22	22	mg/m3
1726	Mercurol; (Mercury nucleate)	12002-19-6	0,025	0,075	0,1	10	mg/m3
1727	Potassium aluminate	12003-63-3	7,5	20	35	150	mg/m3
1728	Lithium tetraborate	12007-60-2	10	30	50	250	mg/m3
1729	Ammonium pentaborate	12007-89-5	10	30	50	250	mg/m3
1730	Iron carbide	12011-67-5	5	15	25	125	mg/m3
1731	Sodium aluminum carbonate dihydroxide; (Dawsonite)	12011-76-6	3,5	10	150	500	mg/m3
1732	Gallium oxide	12024-21-4	10	30	50	500	mg/m3
1733	Thallium hydroxide	12026-06-1	0,1	0,3	0,5	15	mg/m3
1734	Tin hydroxide	12026-24-3	2,5	7,5	12,5	125	mg/m3
1735	Ammonium iodide	12027-06-4	1,5	4	30	150	mg/m3
1736	Molybdic acid, hexaammonium salt; (Ammonium heptamolybdate)	12027-67-7	7,5	25	40	500	mg/m3
1737	Potassium columbate; (Potassium niobate)	12030-85-2	12,5	35	250	500	mg/m3
1738	Potassium zirconate	12030-98-7	12,5	25	25	125	mg/m3
1739	Lithium niobate oxide; (Lithium niobate)	12031-63-9	5	15	25	500	mg/m3
1740	Lutetium oxide	12032-20-1	10	30	50	250	mg/m3
1741	Ruthenium(IV) oxide	12036-10-1	4	12,5	15	15	mg/m3
1742	Technetium(IV) oxide	12036-16-7	10	30	50	250	mg/m3
1743	Tungsten(IV) oxide	12036-22-5	6	10	10	10	mg/m3
1744	Praseodymium oxide	12036-32-7	7,5	25	150	500	mg/m3
1745	Rhodium(III) oxide (solids)	12036-35-0	0,125	3,5	6	125	mg/m3
1746	Terbium oxide	12036-41-8	10	30	50	250	mg/m3
1747	Thulium oxide	12036-44-1	10	30	50	250	mg/m3
1748	Nickel(II) hydroxide; (Nickelous hydroxide)	12054-48-7	0,75	0,75	1,5	15	mg/m3
1749	Hafnium oxide	12055-23-1	0,6	1,5	3	60	mg/m3
1750	Holmium trioxide	12055-62-8	10	30	50	250	mg/m3
1751	Manganese(VII) oxide	12057-92-0	0,4	6	10	50	mg/m3
1752	Sodium stannate	12058-66-1	3,5	10	15	150	mg/m3
1753	Scandium oxide	12060-08-1	10	30	50	250	mg/m3
1754	Samarium(III) oxide	12060-58-1	20	60	400	500	mg/m3
1755	Erbium oxide	12061-16-4	20	60	400	500	mg/m3

Table 3: Recommended TEELs Rev. 19 (by CASRN)

No.	Chemical Name	CASRN	Rev. 19 Recommended TEELs				Units of original limits
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
1756	Gadolinium(III) oxide	12064-62-9	2	6	50	500	mg/m3
1757	Ferrous sulfide; (Iron sulfide)	12068-85-8	2	6	10	50	mg/m3
1758	Boron carbide	12069-32-8	10	30	50	250	mg/m3
1759	Manganese tricarbonyl methylcyclopentadienyl	12108-13-3	0,6	0,6	0,6	7,5	mg/m3
1760	Ammonium fluoride	12125-01-8	5	5	5	12,5	mg/m3
1761	Ammonium chloride	12125-02-9	10	20	50	500	mg/m3
1762	Nickel(III) hydroxide; (Nickelic hydroxide)	12125-56-3	1	1	1,5	15	mg/m3
1763	Palladium hydroxide	12135-22-7	0,125	0,3	2,5	75	mg/m3
1764	Ammonium sulfide	12135-76-1	3,5	10	15	15	ppm
1765	Titanium(II) oxide	12137-20-1	10	30	50	250	mg/m3
1766	Rhodium oxide (liquids); (Rhodium(IV) oxide)	12137-27-8	0,00125	0,0375	0,0625	2,5	mg/m3
1767	Rhodium oxide (solids); (Rhodium((IV) oxide)	12137-27-9	0,125	4	6	125	mg/m3
1768	Uranium telluride-2	12138-37-3	0,1	1,25	2	20	mg/m3
1769	Potassium stannate	12142-33-5	2,5	7,5	12,5	125	mg/m3
1770	Amosite	12172-73-5	0,005	0,025	2,5	12,5	mg/m3
1771	Dysprosium nickelide (as Dy)	12175-27-8	10	30	50	250	mg/m3
1772	Sodium zirconate	12201-48-8	10	20	20	100	mg/m3
1773	Potassium antimonate (X)	12208-13-8	1	3	5	100	mg/m3
1774	Sodium bismuthate	12232-99-4	1,5	5	35	150	mg/m3
1775	Bismuth germanate	12233-73-7	1,5	5	40	200	mg/m3
1776	Sodium monoxide; (Sodium oxide)	12401-86-4	10	10	10	10	mg/m3
1777	Vanadyl sulfate pentahydrate; (Vanadium[IV] sulfate oxide hydrate)	12439-96-2	0,06	0,18	0,3	200	mg/m3
1778	Potassium bismuthate	12589-75-2	1,25	4	25	200	mg/m3
1779	Molybdate orange	12656-85-8	5	15	25	500	mg/m3
1780	Polychlorinated biphenyl (Aroclor 1248); (Chlorodiphenyl (48% Cl))	12672-29-6	0,2	0,6	1	5	mg/m3
1781	Polychlorinated biphenyl (Aroclor 1016): (Chlorodiphenyl [41% Cl]; Aroclor 1241)	12674-11-2	0,2	0,6	1	5	mg/m3
1782	Disodium butylphosphate	12786-93-1	0,02	0,06	0,4	2	mg/m3
1783	Hexacarbonylchromium; (Chromium hexacarbonyl)	13007-92-6	0,05	0,1	1,25	1,25	mg/m3
1784	Terbufos	13071-79-9	0,2	0,6	1	1	mg/m3
1785	Ammonium molybdate	13106-76-8	10	30	50	150	mg/m3
1786	Rubidium nitrate	13126-12-0	10	30	50	500	mg/m3
1787	Nickel(II) nitrate; (Nickelous nitrate)	13138-45-9	3	3	3	30	mg/m3
1788	Phosphamidon; (Famfos)	13171-21-6	0,06	0,15	0,3	60	mg/m3
1789	o-Ethyl s,s-dipropylphosphorodithioate; (Mocap PC-84)	13194-48-4	10	30	50	50	mg/m3
1790	Bis(o-methylstyryl) benzene, p-; (1,4-bis[2-[2-methylphenyl]ethenyl]-benzene)	13280-61-0	10	30	50	250	mg/m3
1791	Beryllium hydroxide	13327-32-7	0,01	0,025	0,25	20	mg/m3
1792	Cesium fluoride	13400-13-0	20	60	100	500	mg/m3
1793	Sodium selenate; (Disodium selenate)	13410-01-0	0,5	1,5	1,6	1,6	mg/m3
1794	Ammonium permanganate	13446-10-1	0,2	3	5	500	mg/m3

Table 3: Recommended TEELs Rev. 19 (by CASRN)

No.	Chemical Name	CASRN	Rev. 19 Recommended TEELs				Units of original limits
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
1795	Potassium molybdate	13446-49-6	12,5	35	60	500	mg/m3
1796	Gallium trichloride	13450-90-3	6	20	32	100	mg/m3
1797	Nickel carbonyl	13463-39-3	0,003	0,0502	0,0502	6	ppm
1798	Iron pentacarbonyl	13463-40-6	0,1	0,2	0,5	1	ppm
1799	Titanium oxide; (Titanium dioxide)	13463-67-7	15	15	15	500	mg/m3
1800	Potassium arsenite (X)	13464-35-2	0,05	0,15	2,5	25	mg/m3
1801	Trisodium arsenate	13464-38-5	0,025	0,075	0,125	12,5	mg/m3
1802	Arsenious acid	13464-58-9	0,015	0,045	1,4	7,5	mg/m3
1803	Hydrazine nitrate; (Hydrazinium nitrate)	13464-97-6	1	3	5	25	mg/m3
1804	Hydroxylamine nitrate	13465-08-2	7,5	15	26	150	mg/m3
1805	Sodium perrhenate; (Rhenium(VII) sodium oxide)	13472-33-8	10	30	50	500	mg/m3
1806	Sodium tungstate	13472-45-2	1	3	5	500	mg/m3
1807	Aluminum(III) nitrate (1:3)	13473-90-0	15	45	75	500	mg/m3
1808	Erbium(III) nitrate hexahydrate	13476-05-6	1	3	20	100	mg/m3
1809	Calcium(II) nitrate tetrahydrate (1:2:4)	13477-34-4	10	30	50	500	mg/m3
1810	Nickel(II) nitrate hexahydrate	13478-00-7	1,5	1,5	50	50	mg/m3
1811	Iron(II) chloride tetrahydrate	13478-10-9	3,5	3,5	7,5	40	mg/m3
1812	Tellurium	13494-80-9	0,1	0,3	20	25	mg/m3
1813	Hansa yellow	13515-40-7	10	30	50	250	mg/m3
1814	Sodium chromate decahydrate	13517-17-4	0,3	0,6	0,6	100	mg/m3
1815	Sodium metasilicate nonahydrate	13517-24-3	10	30	50	500	mg/m3
1816	Uranyl nitrate hexahydrate	13520-83-7	0,1	1,25	1,25	20	mg/m3
1817	Zirconium chloride oxide octahydrate	13520-92-8	15	35	35	150	mg/m3
1818	C.I. pigment yellow 36; (Zinc chromate)	13530-65-9	0,035	0,1	3,5	50	mg/m3
1819	Neodymium bromide	13536-80-6	10	30	50	250	mg/m3
1820	Thulium chloride heptahydrate (as TmCl3)	13537-18-3	15	50	350	500	mg/m3
1821	Chromium(III) nitrate	13548-38-4	2	6	10	100	mg/m3
1822	Cerium sulfate	13590-82-4	1	3,5	20	100	mg/m3
1823	Beryllium nitrate	13597-99-4	0,03	0,075	7,5	60	mg/m3
1824	Uranium hydride; (Uranium(III) hydride)	13598-56-6	0,05	0,6	1	10	mg/m3
1825	Sodium cobaltinitrite	13600-98-1	0,125	0,4	3	15	mg/m3
1826	Tetraamminepalladium(I) nitrate	13601-08-6	1,5	5	35	150	mg/m3
1827	Sodium ferrocyanide	13601-19-9	5	15	25	500	mg/m3
1828	Methylnitrosopiperidine, 3-; (Piperidine, 3-methyl-1-nitroso-)	13603-07-1	0,06	0,15	1,25	6	ppm
1829	Chlorine pentafluoride	13637-63-3	3,5	3,5	3,5	60	ppm
1830	Barium metaborate	13701-59-2	10	30	200	500	mg/m3
1831	Vanadium(III) sulfate	13701-70-7	0,1	0,1	0,1	0,5	mg/m3
1832	Lanthanum fluoride	13709-38-1	7,5	7,5	37,5	250	mg/m3
1833	Neodymium fluoride	13709-42-7	7,5	25	40	250	mg/m3

Table 3: Recommended TEELs Rev. 19 (by CASRN)

No.	Chemical Name	CASRN	Rev. 19 Recommended TEELs				Units of original limits
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
1834	Sodium metavanadate; (Sodium vanadate)	13718-26-8	0,1	0,35	2	30	mg/m3
1835	Sodium pertechnetate	13718-28-0	10	30	50	250	mg/m3
1836	Sodium uranate; (Sodium diuranate)	13721-34-1	0,075	0,75	1,5	15	mg/m3
1837	Sodium orthovanadate	13721-39-6	0,15	0,15	15	35	mg/m3
1838	Potassium ferricyanide	13746-66-2	6	15	30	500	mg/m3
1839	Zirconium nitrate	13746-89-9	15	35	35	150	mg/m3
1840	Ytterbium fluoride	13760-80-0	10	10	10	10	mg/m3
1841	Calcium chromate	13765-19-0	0,003	0,0075	0,15	150	mg/m3
1842	Calcium nitrite	13780-06-8	0,03	0,075	0,6	50	mg/m3
1843	Lead fluoborate	13814-96-5	0,075	0,25	0,4	150	mg/m3
1844	Thorium(IV) nitrate	13823-29-5	0,75	2	15	25	mg/m3
1845	Thallium nitrite	13826-63-6	0,125	0,35	0,6	15	MG/M3
1846	Zirconyl nitrate; (Bis(nitrato-o)oxozirconium)	13826-66-9	12,5	25	25	125	mg/m3
1847	Ammonium fluoborate	13826-83-0	3,5	3,5	6	20	mg/m3
1848	Bromine chloride	13863-41-7	10	30	50	250	mg/m3
1849	Chromates	13907-45-4	0,05	0,1	0,1	15	mg/m3
1850	Butylamine, sec-	13952-84-6	5	5	5	20	ppm
1851	Ferrous sulfamate	14017-39-1	1	3	5	25	mg/m3
1852	Potassium pertechnetate	14133-76-7	10	30	50	250	mg/m3
1853	Salcomine; (bis[Salicylaldehyde]ethylenediimine cobalt[II])	14167-18-1	7,5	20	40	400	mg/m3
1854	C.I. pigment green 36	14302-13-7	15	50	350	500	mg/m3
1855	Lithium chromate	14307-35-8	0,06	0,06	0,1	20	mg/m3
1856	Ammonium tartrate	14307-43-8	10	10	10	10	mg/m3
1857	Sodium nitroferricyanide	14402-89-2	0,6	2	12,5	20	mg/m3
1858	Strontium phosphate	14414-90-5	10	30	500	500	mg/m3
1859	Cristobalite	14464-46-1	0,05	0,15	2,5	25	mg/m3
1860	Zirconium hydroxide	14475-63-9	7,5	15	15	75	mg/m3
1861	Lanthanum hydroxide	14507-19-8	0,2	0,75	2	2,5	mg/m3
1862	Phenanthroline ferrous sulfate o-complex	14634-91-4	10	30	50	250	mg/m3
1863	Zirconium sulfate tetrahydrate	14644-61-2	20	40	40	200	mg/m3
1864	Ethyl-2-methyl heptane, 3-	14676-29-0	15	50	350	1 500	ppm
1865	Nitrate(s)	14797-55-8	10	30	50	250	mg/m3
1866	Talc	14807-96-6	2	2	10	500	mg/m3
1867	Silica-crystalline (quartz); (Silicon dioxide)	14808-60-7	0,15	0,15	0,25	50	mg/m3
1868	Lanthanum phosphate	14913-14-5	0,3	0,75	3	3	mg/m3
1869	Cupric nitrite	14984-71-5	0,035	0,075	0,6	60	mg/m3
1870	Zirconium oxynitrate hydrate	14985-18-3	12,5	25	25	125	mg/m3
1871	Bicyclo[2.2.1]heptane-2-carbonitrile, 5-chloro-6-((((methylamino)carbonyl)oxy)Imino)-, (1s-(1-alpha,2-beta,4-alpha,5-alpha,6E))-.	15271-41-7	3,5	10	19	19	mg/m3

Table 3: Recommended TEELs Rev. 19 (by CASRN)

No.	Chemical Name	CASRN	Rev. 19 Recommended TEELs				Units of original limits
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
1872	Potassium tellurate	15571-91-2	0,2	0,6	1	5	mg/m3
1873	Ammonium nickel sulfate	15699-18-0	1,5	1,5	2,5	50	mg/m3
1874	Cerium hydroxide	15785-09-8	0,75	0,75	2	75	mg/m3
1875	Mercurous oxide	15829-53-5	0,025	0,1	0,1	10	mg/m3
1876	Dimethyloctane, 3,5-	15869-93-9	100	200	500	2 500	ppm
1877	Oxathiane, 1,4-	15980-15-1	4	12,5	75	400	ppm
1878	Dicyclohexano-18-crown-6	16069-36-6	0,2	0,6	4	75	mg/m3
1879	Monobutyl phosphite	16456-56-7	6	20	150	500	mg/m3
1880	Neodymium hydroxide	16469-17-3	0,75	0,75	2	75	mg/m3
1881	Gadolinium hydroxide	16469-18-4	0,75	0,75	2,5	75	mg/m3
1882	Bromocyclohexanol, Cis-2-	16536-57-5	0,04	0,125	0,75	40	ppm
1883	Carboxylic acid sodium salt	16550-39-3	0,001	0,003	0,02	0,1	mg/m3
1884	Sodium sulfhydrate; (Sodium hydrosulfide)	16721-80-5	0,06	0,15	1,25	6	mg/m3
1885	Methomyl	16752-77-5	2,5	7,5	10	200	mg/m3
1886	Ceric ammonium nitrate	16774-21-3	40	100	200	500	mg/m3
1887	Vanadium sulfate	16785-81-2	0,5	1,5	10	50	mg/m3
1888	Ammonium hexafluorosilicate; (Ammonium silicofluoride)	16919-19-0	4	10	20	30	mg/m3
1889	Zirconium potassium fluoride; (Potassium fluozirconate)	16923-95-8	35	150	150	150	mg/m3
1890	Sodium borohydride	16940-66-2	0,075	0,2	1,5	7,5	mg/m3
1891	Dihydrogen hexachloroplatinum (IV); (Chloroplatanic acid)	16941-12-1	0,004	0,012	0,02	7,5	mg/m3
1892	Silicofluoric acid; (Fluorosilicic acid)	16961-83-4	3	7,5	15	50	mg/m3
1893	Fluorides (as F)	16984-48-8	2,5	2,5	2,5	250	mg/m3
1894	Barium hydroxide	17194-00-2	0,6	1,5	3	100	mg/m3
1895	Dimethylnonane, 2,6-	17302-23-7	125	250	250	250	ppm
1896	Dimethyldecane, 2,2-	17302-37-3	50,3	50,3	259	1 250	ppm
1897	Decaborane	17702-41-9	0,3	0,75	10	15	mg/m3
1898	Formparanate	17702-57-7	1,5	4	7,2	7,2	mg/m3
1899	Nickel(II) nitrite	17861-62-0	0,3	0,3	0,5	10	mg/m3
1900	Strontium hydroxide	18480-07-4	0,75	0,75	20	75	mg/m3
1901	Ferrous hydroxide	18624-44-7	3,5	10	75	400	mg/m3
1902	Manganous sulfide; (Manganese(II) sulfide)	18820-29-6	0,3	0,75	7,5	500	mg/m3
1903	Molybdenum dioxide	18868-43-4	12,5	40	60	60	mg/m3
1904	Manganese hydroxide	18933-05-6	0,3	5	7,5	500	mg/m3
1905	Sodium citrate; (Monosodium citrate)	18996-35-5	10	30	50	500	mg/m3
1906	Cupric nitrate hemipentahydrate (as Cu)	19004-19-4	3,5	10	15	350	mg/m3
1907	Phosphonic acid, dioctadecyl ester	19047-85-9	0,02	0,06	0,4	2	mg/m3
1908	Diborane	19287-45-7	0,1	0,15	1	3	ppm
1909	HexaCDD, 1,2,3,7,8,9-	19408-74-3	0,005	0,015	0,1	0,5	mg/m3
1910	Lithium azide	19597-69-4	10	10	10	10	mg/m3

Table 3: Recommended TEELs Rev. 19 (by CASRN)

No.	Chemical Name	CASRN	Rev. 19 Recommended TEELs				Units of original limits
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
1911	Pentaborane	19624-22-7	0,005	0,015	0,310	1	ppm
1912	Lead hydroxide	19783-14-3	0,06	0,15	0,3	1,5	mg/m3
1913	Propyl-1-butanamine, N-	20193-21-9	15	50	350	500	mg/m3
1914	Tripropylene glycol monomethyl ether; {2-Propanol,1-[2-(2-methoxy-1-methylethoxy)-1-methylethoxy]-{}	20324-33-8	0,03	0,1	0,6	150	ppm
1915	Trimethyl-2,5,8,11-tetraoxatetradecan-13-ol, 4,7,10-	20324-34-9	10	30	50	250	mg/m3
1916	Dianisidine dihydrochloride, o-; (3,3'-Dimethoxybenzidine dihydrochloride)	20325-40-0	0,15	0,5	3,5	7,5	mg/m3
1917	Iron hydroxide oxide	20344-49-4	15	50	75	350	mg/m3
1918	Zinc hydroxide	20427-58-1	0,6	0,6	1,5	60	mg/m3
1919	Copper hydroxide	20427-59-2	1,5	4	7,5	400	mg/m3
1920	Silver oxide	20667-12-3	10	30	50	50	mg/m3
1921	Osmium tetroxide	20816-12-0	0,00075	0,00075	0,00963	1,3	ppm
1922	Digoxin	20830-75-5	0,04	0,125	0,2	5	mg/m3
1923	Aluminum phosphide	20859-73-8	4	4	20	20	mg/m3
1924	Cobalt hydroxide	21041-93-0	0,03	0,075	0,15	0,75	mg/m3
1925	Cadmium hydroxide	21041-95-2	0,006	0,04	4	10	mg/m3
1926	Fusariotoxin T2; (T2-Trichothecene)	21259-20-1	0,0035	0,01	0,075	0,4	mg/m3
1927	Ammonium ethylenedinitrotetraacetoferrate(III)	21265-50-9	2,5	7,5	50	250	mg/m3
1928	Cesium hydroxide	21351-79-1	2	2	7,5	250	mg/m3
1929	Fosthietan	21548-32-3	0,75	2,5	4,7	4,7	mg/m3
1930	Fluoro-4-nitrophenol, 2-	21571-34-6	0,75	2,5	15	75	mg/m3
1931	Leptophos	21609-90-5	6	15	30	30	mg/m3
1932	Aluminum hydroxide	21645-51-2	4	12,5	125	125	mg/m3
1933	Rhodium(III) hydroxide (liquids)	21656-02-0	0,0015	0,045	0,075	3	mg/m3
1934	Rhodium(III) hydroxide (solids)	21656-02-1	0,15	4	7,5	150	mg/m3
1935	Mercury(II) oxide; (Mercuric oxide)	21908-53-2	0,025	0,1	1	10	mg/m3
1936	Chlorthiophos	21923-23-9	0,35	1	7,8	7,8	mg/m3
1937	Nicotine salts; (d1-beta-Nicotine; DL-Nicotine)	22083-74-5	1,25	3,5	3,5	75	mg/m3
1938	Fenamiphos	22224-92-6	0,1	0,3	0,9	40	mg/m3
1939	Trifluoro-l-(2-thienyl)-1,3-butanedione (4,4,4-) boron difluoride	22502-27-8	0,75	2,5	15	75	mg/m3
1940	Ethyl-benzaldehyde	22927-13-5	10	30	200	1 000	ppm
1941	Methyl mercury	22967-92-6	0,01	0,03	0,04	0,2	mg/m3
1942	Oxamyl	23135-22-0	0,35	1	1,7	15	mg/m3
1943	Formetanate hydrochloride	23422-53-9	3,5	10	18	18	mg/m3
1944	Pirimifos-ethyl	23505-41-1	5	15	25	60	mg/m3
1945	Triazofos; (Triazophos)	24017-47-8	0,5	1,5	2,8	125	mg/m3
1946	Chlormephos	24934-91-6	1,25	4	7	35	mg/m3
1947	Polyamide; (Capron; Poly[iminocarbonylpentamethylene))	25038-54-4	10	30	200	500	mg/m3
1948	Vinyl acrylic resin	25067-01-0	10	30	50	250	mg/m3
1949	Epoxy resin (EPON 1001)	25068-38-6	10	30	50	500	mg/m3

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No.	Chemical Name	CASRN	Rev. 19 Recommended TEELs				Units of original limits
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
1950	Epoxy resin (EPON 1007)	25068-38-7	10	30	50	500	mg/m3
1951	Epoxy resin (EPON 820)	25068-38-8	10	30	50	500	mg/m3
1952	Epoxy resin ERL-2795	25068-38-9	10	30	50	500	mg/m3
1953	Nonyl phenol (mixed isomers)	25154-52-3	6	20	125	500	mg/m3
1954	Nitrophenol (mixed)	25154-55-6	0,75	2,5	15	75	mg/m3
1955	Sodium dodecylbenzenesulfonate; (Dodecyl benzene sodium sulfonate)	25155-30-0	4	12,5	75	200	mg/m3
1956	Trimethyl-1,3-pentanediol monoisobutyrate2,2,4-; (Texanol)	25265-77-4	25	75	500	500	mg/m3
1957	Bis(1-methylethyl) benzene; (Diisopropylbenzene)	25321-09-9	5	15	100	500	mg/m3
1958	Dinitrotoluene	25321-14-6	0,2	0,6	10	50	mg/m3
1959	Tetrachloroethane (mixed isomers)	25322-20-7	1,5	5	35	400	ppm
1960	Polyethylene glycol	25322-68-3	10	30	50	500	mg/m3
1961	Polypropylene glycols	25322-69-4	10	10	40	75	mg/m3
1962	Triethylbenzene, 1,2,4-; (Triethylbenzene, mixed isomers)	25340-18-5	6	15	125	600	ppm
1963	Dinitrophenol	25550-58-7	0,25	0,75	5	25	mg/m3
1964	Iodine solutions; (Todine solutions)	25655-41-8	12,5	25	25	125	mg/m3
1965	Epoxy resin; (Epichlorhydrin + diethylene glycol)	25928-94-3	0,06	0,2	1,25	6	mg/m3
1966	Glycols, polyethylene, mono(p-nonylphenyl) ether; (Nonoxynol-9)	26027-38-3	0,025	0,075	0,6	60	mg/m3
1967	Lithium nitride	26134-62-3	10	10	10	10	mg/m3
1968	Terphenyls; (Diphenylbenzene)	26140-60-3	5	5	9	500	mg/m3
1969	Carbamic Acid, Methyl-, O-(((2,4-Dimethyl-1, 3-Dithiolan-2-yl)Methylene)Amino)-	26419-73-8	0,2	0,6	1	1	mg/m3
1970	Toluene-1,3-diisocyanate	26471-62-5	0,25	0,75	1,5	1,5	ppm
1971	Sodium azide	26628-22-8	0,29	0,29	0,29	12,5	mg/m3
1972	Dichloropropane	26638-19-7	4	12,5	75	400	ppm
1973	Neodecanoic acid	26896-20-8	12,5	40	300	500	mg/m3
1974	Trichloro(dichlorophenyl) silane	27137-85-5	0,03	0,1	0,698	0,698	ppm
1975	Dodecylbenzene sulfonic acid; (Laurylbenzenesulfonic acid)	27176-87-0	2,5	7,5	50	250	mg/m3
1976	Stilbene 3; (Tinopal CBS, Disodium-4,4'-bis[2-sulfostyryl]biphenyl)	27344-41-8	0,25	0,75	6	500	mg/m3
1977	Vanadyl sulfate; (Oxysulfatovanadium)	27774-13-6	0,075	0,75	0,75	60	mg/m3
1978	Hexamethylene diisocyanate polymer	28182-81-2	7,5	25	200	500	mg/m3
1979	Trinitrochlorobenzene, 2,4,6- (Picryl chloride)	28260-61-9	10	30	50	250	mg/m3
1980	Aminoheptane, 3-; (3-Heptylamine)	28292-42-4	0,06	0,15	1,25	6	ppm
1981	Antimony potassium tartrate trihydrate; (sans trihydrate)	28300-74-5	1,25	4	6	125	mg/m3
1982	Xylylene dichloride	28347-13-9	0,4	1,25	2	75	mg/m3
1983	Bromadiolone	28772-56-7	0,2	0,6	1	1	mg/m3
1984	Methyl-1H-benzotriazole	29385-43-1	10	30	50	300	mg/m3
1985	Potassium antimonate	29638-69-5	2	6	10	200	mg/m3
1986	Paraformaldehyde	30525-89-4	4	12,5	75	100	mg/m3
1987	Epoxy resin, cured	30583-72-3	10	30	50	250	mg/m3
1988	Isocyanatoethyl methacrylate, 2-	30674-80-7	0,02	0,06	0,1	1	ppm

Table 3: Recommended TEELs Rev. 19 (by CASRN)

No.	Chemical Name	CASRN	Rev. 19 Recommended TEELs				Units of original limits
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
1989	Sodium p-tert-amylphenate; (4-[1,1-dimethylpropyl]-phenol, sodium salt)	31366-95-7	10	30	50	250	mg/m3
1990	Glyceryl monostearate; (Octadecanoic acid with 1,2,3-propanetriol)	31566-31-1	10	30	50	75	mg/m3
1991	Bromo-3-chloro-5,5-dimethylhydantoin, 1-	32718-18-6	10	10	10	10	mg/m3
1992	Sodium antimonate	33908-66-6	0,75	2	4	75	mg/m3
1993	Dihydro-4-methyl furan, 2,3-	34314-83-5	1,5	5	35	150	mg/m3
1994	Dipropylene glycol methyl ether	34590-94-8	100	150	150	400	ppm
1995	Amino-4,6-dinitrotoluene, 2-	35572-78-2	6	15	125	500	mg/m3
1996	HeptaCDD, 1,2,3,4,6,7,8-	35822-46-9	0,2	0,6	2,5	2,5	mg/m3
1997	Uranyl nitrate; (yellow salt)	36478-76-9	0,075	1	1	15	mg/m3
1998	Hexadecanol, 1-	36653-82-4	2,5	7,5	60	300	mg/m3
1999	Vanadium(II) sulfate heptahydrate	36907-42-3	0,15	0,15	0,15	0,75	mg/m3
2000	Polychlorinated biphenyl (Aroclor 1262): (Chlorodiphenyl [62% Cl])	37324-23-5	1	3	5	5	mg/m3
2001	Disodium ethylenediaminediacetate (S and U isomers)	38011-25-5	4	12,5	75	400	mg/m3
2002	Diisopropylnaphthalene; (Bis(isopropyl)naphthalene)	38640-62-9	12,5	40	300	500	mg/m3
2003	OctaCDF, 1,2,3,4,6,7,8,9-	39001-02-0	0,003	0,0075	0,06	10	mg/m3
2004	Thiofanox; (Dacamox)	39196-18-4	8,5	8,5	8,5	30	mg/m3
2005	HexaCDD, 1,2,3,4,7,8-	39227-28-6	0,0004	0,00125	0,0075	0,4	mg/m3
2006	Pentachlorobenzo-p-dioxin, 1,2,3,7,8-	40321-76-4	0,00075	0,0025	0,015	0,075	mg/m3
2007	Dimethyl(1-phenylethyl)benzene, 1-	40766-31-2	10	30	50	500	mg/m3
2008	Nabumetone; (Relafen, or 4-[6-methoxy-2-napthyl]-2-butanone)	42924-53-8	10	30	50	500	mg/m3
2009	Ethyl-s-dimethylaminoethyl methylphosphonothiolate; (VX nerve agent)	50782-69-9	0,0001	0,00035	0,002	0,015	mg/m3
2010	Tetrachlorodibenzofuran, 2.3.7.8-	51207-31-9	0,0006	0,002	0,002	0,002	mg/m3
2011	Ammonium lactate	52003-58-4	10	30	50	250	mg/m3
2012	Ethyl-5-methylheptane, 3-	52896-90-9	0,4	1,25	10	5 000	ppm
2013	Polychlorinated biphenyl (Aroclor 1242); (Chlorodiphenyl (42% Cl))	53469-21-9	1	3	5	5	mg/m3
2014	Tetrachlorodibenzo-p-dioxin, 1,2,3,8-	53555-02-5	0,004	0,0125	0,075	0,4	mg/m3
2015	Pyriminil; (Pyriminyl)	53558-25-1	1,25	3,5	6,2	20	mg/m3
2016	Trimethyloctane, 2,6,6-	54166-32-4	54,8	54,8	282	1 250	ppm
2017	Butyl-3-iodo-propnyl ester carbamic acid	55406-53-6	10	30	50	250	mg/m3
2018	HeptaCDF, 1,2,3,4,7,8,9-	55673-89-7	0,075	0,25	1,5	7,5	mg/m3
2019	Trimethyl-2-hexene, 4,4,5-	55702-61-9	10	30	50	250	mg/m3
2020	Pentachlorodibenzofuran, 2,3,4,7,8-	57117-31-4	0,000025	0,000075	0,0006	0,4	mg/m3
2021	Pentachlorodibenzofuran, 1,2,3,7,8-	57117-41-6	0,0025	0,0075	0,06	0,3	mg/m3
2022	Hexachlorodibenzofuran, 1,2,3,6,7,8-	57117-44-9	0,00075	0,0025	0,015	0,075	mg/m3
2023	Hexachlorodibenzo-p-dioxin, 1,2,3,4,7,8-	57653-85-7	0,005	0,015	0,1	0,5	mg/m3
2024	Dichloro(4,4-dimethylzinc -5((((methylamino)carbonyl) oxy)imino)pentanenitrile), (trans-4)-; (Ethienocarb)	58270-08-9	1,5	5	9	9	mg/m3
2025	Hexamethylenetetraamine hydrochloride	58713-21-6	10	30	50	250	mg/m3
2026	Methyl acetylene-propadiene mixture; (Mapp Gas)	59355-75-8	1 000	1 250	3 400	3 400	ppm
2027	Monosodium titanate	60704-88-3	10	30	50	250	mg/m3

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			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
2028	Hexachlorodibenzofuran, 2,3,4,6,7,8-	60851-34-5	0,0005	0,0015	0,01	0,05	mg/m3
2029	Antioxidant G-16 (most toxic antiox)	61373-87-3	10	30	50	125	mg/m3
2030	Sulfonic acid; (Petroleum acid sulfonate)	61789-85-3	10	30	50	250	mg/m3
2031	Mastic (resin)	61789-92-2	4	12,5	100	500	mg/m3
2032	Naphthenic acid, lead salt	61790-14-5	0,05	0,15	25	100	mg/m3
2033	Trimethyloctane, 2,2,6-	62016-28-8	54,8	54,8	282	1 250	ppm
2034	Trimethyloctane, 2,3,7-	62016-34-6	54,8	54,8	282	1 250	ppm
2035	Trimethyloctane, 2,4,6-	62016-37-9	54,8	54,8	282	1 250	ppm
2036	Trimethyldecane, 2,5,6-	62108-23-0	46,5	46,5	239	1 250	ppm
2037	Cobalt, ((2,2'-(1,2-Ethanediylbis (Nitrilomethylidyne)) Bis(6-Fluorophenolato))(2-)-N,N',O,O')-	62207-76-5	0,15	0,4	3	15	mg/m3
2038	Trimethyldecane, 2,2,8-	62238-01-1	46,5	46,5	239	1 250	ppm
2039	Trimethyldecane, 3,3,4-	62338-09-4	46,5	46,5	239	239	ppm
2040	Dimethyl siloxane; (Syltherm; Silicone 360)	63148-62-9	10	30	50	250	mg/m3
2041	Alkylamines (includes nitrogen mustard, triethylmelamine, etc.)	63231-48-1	10	30	50	250	mg/m3
2042	Aliquat 336; (Adogen 464; Quaternary ammonium compounds, tri(C8-10)-alkylmethyl-, chlorides)	63393-96-4	30	75	500	500	mg/m3
2043	Bis[2(2-chlorethyl-thio)ester]; (2-2'-Di(3-chloroethylthio)diethyl ether	63918-89-8	0,3	0,75	6	30	mg/m3
2044	Isooctane; (Trimethyl-2-oxepanone)	64047-30-9	30	75	500	500	mg/m3
2045	Trisodium arsenate, heptahydrate; (Arsenic(V) acid, trisodium salt, heptahydrate (1:3:7))	64070-83-3	0,04	0,125	0,2	20	mg/m3
2046	Activated charcoal	64365-11-3	10	30	50	250	mg/m3
2047	Petroleum spirits; (Mineral spirits, Soltrol)	64475-85-0	20	60	400	2 000	ppm
2048	Naptha (petoleum), heavy catalytic cracked	64741-54-4	6	15	125	500	mg/m3
2049	Petroleum mineral oil; (… extracts, light paraffinic distillate solvent)	64742-06-9	10	30	500	500	mg/m3
2050	Naphtha, hydrotreated heavy	64742-48-9	10	30	50	250	mg/m3
2051	Hydrotreated (mild & severe) heavy paraffinic distillates	64742-54-7	60	150	500	500	mg/m3
2052	Petroleum spirits; (Mineral Spirits, Naphtha)	64742-88-7	10	30	50	500	mg/m3
2053	Naphtha (Rubber solvent)	64742-89-8	100	100	200	1 000	ppm
2054	Aromatic hydrocarbon solvents; (High flash naphtha distillates; Solvent naphtha [petroleum], light aromatic)	64742-95-6	500	750	750	750	ppm
2055	Paraffins, petroleum, normal C5-C20	64771-72-8	300	300	300	300	ppm
2056	Chlorosulfuran	64902-72-3	0,15	0,5	3,5	500	mg/m3
2057	Coal tar pitch volatiles; (Particulate polycyclic aromatic hydrocarbons)	65996-93-2	0,2	0,6	10	80	mg/m3
2058	Alkyd resins and rosin	66070-62-0	10	30	50	250	mg/m3
2059	HeptaCDF, 1,2,3,4,6,7,8-	67562-39-4	0,06	0,15	1,25	6	mg/m3
2060	Decene, 1-, homopolymer, hydrogenated	68037-01-4	10	30	50	250	mg/m3
2061	Tallo oil (alkyd resin)	68333-62-0	10	30	50	250	mg/m3
2062	Diesel fuels	68334-30-5	35	100	500	500	mg/m3
2063	Chlorinated polyolefins	68410-99-1	10	30	50	250	mg/m3
2064	Nonylphenoxypolyethoxyethanol	68412-54-4	10	30	50	250	mg/m3
2065	Diesel fuel marine; (Fuel oil No.2)	68476-30-2	2,5	7,5	60	500	mg/m3
2066	Fuel oil	68476-33-5	35	100	500	500	mg/m3

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			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
2067	Liquified petroleum gas; (L.P.G.)	68476-85-7	1 000	2 000	2 000	2 000	ppm
2068	Alkyl benzenes (C8-C9)	68515-28-3	10	30	50	250	mg/m3
2069	Alcohols, C6-C12 (N.O.S.)	68603-15-6	10	30	50	250	mg/m3
2070	Alkylbenzene (C10-C16)	68648-87-3	10	30	50	500	mg/m3
2071	Poly alpha olefin; (Synthetic hydrocarbon mixture, PAO)	68649-12-7	5	10	25	250	mg/m3
2072	Methylchlorodisilane; (Chloromethyldisilane)	68937-17-7	0,1	0,3	2	10	ppm
2073	Vegetable oil	68956-68-3	15	30	50	500	mg/m3
2074	Ethoxylated alcohols, C7-C21	68991-48-0	10	10	10	10	mg/m3
2075	DOWEX-50-X8 resin	69011-20-7	10	30	50	250	mg/m3
2076	Silica, amorphous fume	69012-64-2	2	6	10	50	mg/m3
2077	Hexachlorodibenzofuran, 1,2,3,4,7,8-	70648-26-9	0,0025	0,0075	0,06	0,3	mg/m3
2078	HexaCDF, 1,2,3,7,8,9-	72918-21-9	0,04	0,125	0,75	4	mg/m3
2079	Sodium aluminum silicate	73987-94-7	3,5	10	15	500	mg/m3
2080	Cyclohexen-1-one…, 2- ; (Checkmate)	74051-80-2	25	75	500	500	mg/m3
2081	Tributyltetradecylphosphonium chloride	81741-28-8	10	30	50	250	mg/m3
2082	Octyl(phenyl)-N,N-diisobutyl carbamoylmethylphosphine oxide	83242-95-9	10	30	50	250	mg/m3
2083	Nonyl phenol (branched)	84852-15-3	5	15	100	500	mg/m3
2084	Perlite (fused NaKAl silicate, < 1% quartz)	93763-70-3	10	30	50	500	mg/m3
2085	Trimethyloctane, 2,3,6-	98060-52-7	54,8	54,8	282	1 000	ppm
2086	Triphenol sulfonium chloride; (Triaryl sulfonium chloride salts)	109037-76-5	10	10	25	125	mg/m3
2087	Silica, amorphous fumed	112945-52-5	2	6	100	500	mg/m3
2088	Nonylphenol ethoxylate	127087-87-0	10	30	200	500	mg/m3
2089	Alkenyl dimethylethyl ammonium bromide; (Aliphatic hydrocarbon)	z-0001	2	6	40	200	mg/m3
2090	Ammonium hexachlorohydrate (III)	z-0002	10	30	50	250	mg/m3
2091	Ammonium lignin sulfonate	z-0003	10	30	50	250	mg/m3
2092	Ammonium molybdophosphate	z-0004	7,5	25	40	200	mg/m3
2093	Barium nitrite	z-0005	0,75	2,5	4	20	mg/m3
2094	Barium phosphate	z-0006	0,75	2	4	20	mg/m3
2095	Butyl bis(2-ethylhexyl)phosphate	z-0007	0,2	0,6	0,75	0,75	ppm
2096	C8 Alkane	z-0008	300	386	400	2 000	ppm
2097	Cadmium nitrite	z-0009	0,0075	0,05	4	15	mg/m3
2098	Cerium oxalate	z-0010	10	30	50	250	mg/m3
2099	Cerous nitrite	z-0011	0,04	0,1	0,75	75	mg/m3
2100	Cesium nitrite	z-0012	0,075	0,2	1,5	60	mg/m3
2101	Chlorine Hi dry granular (as Cl)	z-0013	0,5	1	3	20	ppm
2102	Chloropicrin/Methyl bromide mixture	z-0014	2	3	12,5	60	mg/m3
2103	Chloropicrin/Methyl chloride mixture	z-0015	2	2	6	30	mg/m3
2104	Chromium(III) oxide hydroxide; (Chromium oxyhydroxide)	z-0016	0,75	1	3,75	40	mg/m3
2105	Chromium(VI) hydroxide	z-0017	0,01	0,03	0,1	15	mg/m3

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			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
2106	Cobalt nitrite	z-0018	0,05	0,15	0,25	1,25	mg/m3
2107	Cobalt tetraphenylporphine	z-0019	10	30	50	250	mg/m3
2108	Cyclotol; (RDX-TNT mixture)	z-0020	0,2	3	3	250	mg/m3
2109	Dibutyl (2-ethylhexyl)phosphate	z-0021	0,2	0,6	0,7	0,7	ppm
2110	Diesel fuel marine; (Diesel fuel No. 4)	z-0022	100	350	500	500	mg/m3
2111	Dipotassium cadmium oxide (X)	z-0023	0,01	0,06	0,1	15	mg/m3
2112	Dipotassium dihydrogen silicate	z-0024	10	30	50	250	mg/m3
2113	Dipotassium zirconium oxide (X)	z-0025	12,5	25	25	125	mg/m3
2114	Disodium (2-ethylhexyl)phosphate	z-0026	0,02	0,06	0,4	2	mg/m3
2115	Disodium cadmium oxide (X)	z-0027	0,0075	0,05	0,075	15	mg/m3
2116	Disodium dihydrogen silicate	z-0028	10	30	50	250	mg/m3
2117	Disodium zirconium oxide (X)	z-0029	10	20	20	100	mg/m3
2118	Ecolite	z-0030	10	30	50	500	mg/m3
2119	Epibatadine (nicotine-like)	z-0031	0,0015	0,004	0,025	0,025	mg/m3
2120	Ethyl (or dimethyl) pyrrolidine	z-0032	5	15	100	500	mg/m3
2121	Ethyl-2-methyloctane, 6-	z-0033	0,35	1	6	35	ppm
2122	Ferric ammonium sulfate	z-0034	1	3	5	25	mg/m3
2123	Fiber glass	z-0035	5	15	25	125	mg/m3
2124	Fluoronitrophenol, 2-	z-0036	0,75	2,5	15	75	mg/m3
2125	Gadolinium nitrite	z-0037	0,04	0,125	0,75	75	mg/m3
2126	Germanous acid	z-0038	2	6	40	200	mg/m3
2127	Glass frit	z-0039	5	15	25	125	mg/m3
2128	Isocyanate-bearing waste (as CNs N.O.S.)	z-0040	5	5	5	25	mg/m3
2129	Jet fuels (JP-5 and JP-8) (as Kerosene)	z-0041	100	100	400	400	mg/m3
2130	Lanthanum alizarin (as La)	z-0042	10	30	50	250	mg/m3
2131	Lanthanum carbonate	z-0043	10	30	50	250	mg/m3
2132	Lead nitrite	z-0044	0,075	0,2	0,35	1,5	mg/m3
2133	Lithium deuteride	z-0045	0,025	0,025	0,1	0,5	mg/m3
2134	Lithium molybdate	z-0046	7,5	25	40	200	mg/m3
2135	Lithium nitrite	z-0047	0,025	0,06	0,4	40	mg/m3
2136	Manganese nitrite	z-0048	0,5	7,5	12,5	500	mg/m3
2137	Manganese oxalate	z-0049	0,5	7,5	12,5	500	mg/m3
2138	Mercury hydroxide	z-0050	0,03	0,075	0,1	10	mg/m3
2139	Mercury nitrite	z-0051	0,035	0,1	0,15	15	mg/m3
2140	Mineral fibers, fine	z-0052	10	30	50	250	mg/m3
2141	Molybdic acid	z-0053	2,5	2,5	4	500	mg/m3
2142	Neodymium nitrite	z-0054	0,04	0,1	0,75	75	mg/m3
2143	Nickel oxalate (liquids)	z-0055	0,75	0,75	1,25	25	mg/m3
2144	Nickel oxalate (solids)	z-0056	1,5	1,5	2,5	25	mg/m3

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			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
2145	Norchlorofluoroepibatidine	z-0057	0,00004	0,000125	0,00075	0,00125	mg/m3
2146	Oil gas; (Oil fog)	z-0058	450	1 750	3 000	4 500	ppm
2147	Organorhodium complex (PMN–82–147)	z-0059	0,3	7,5	15	500	mg/m3
2148	Particulate material (PNOS)	z-0060	10	30	50	250	mg/m3
2149	PBX (mixture of HMX and nitrocellulose)	z-0061	0,24	0,6	5	500	mg/m3
2150	Permafluor E+	z-0062	100	150	500	500	mg/m3
2151	Permafluor-V (85+% toluene)	z-0063	50	150	300	500	ppm
2152	Petroleum 50 thinner; (Paint thinner)	z-0064	7,5	25	150	750	ppm
2153	Polychlorinated biphenyl (Aroclor 1016/1242): (Chlorodiphenyl [37% Cl])	z-0065	0,2	0,6	1	5	mg/m3
2154	Polychlorinated biphenyl (Aroclor 1260/1262): (Chlorodiphenyl [61% Cl?])	z-0066	0,2	0,6	1,5	5	mg/m3
2155	Potassium aluminite	z-0067	2,5	7,5	12,5	500	mg/m3
2156	Potassium aluminosilicate	z-0068	5	30	50	500	mg/m3
2157	Potassium antimonite	z-0069	0,75	2,5	4	75	mg/m3
2158	Potassium argentate	z-0070	0,015	0,05	0,075	15	mg/m3
2159	Potassium beryllium oxide	z-0071	0,015	0,075	0,075	30	mg/m3
2160	Potassium cadminate	z-0072	0,01	0,06	0,1	20	mg/m3
2161	Potassium hydrogen lead oxide	z-0073	0,06	0,06	0,06	125	mg/m3
2162	Potassium hydrogen pyro-phosphate	z-0074	4	12,5	20	400	mg/m3
2163	Potassium hydrogen silicate	z-0075	10	30	50	250	mg/m3
2164	Potassium iminodiacetate; (Potassium IDA)	z-0076	4	12,5	100	500	ppm
2165	Potassium lanthanate	z-0077	0,4	1,25	2,5	2,5	mg/m3
2166	Potassium metaborate	z-0078	12,5	35	250	500	mg/m3
2167	Potassium nickel oxide (liquids)	z-0079	0,75	0,75	1,5	30	mg/m3
2168	Potassium nickelate (liquids)	z-0080	1	1	1,5	35	mg/m3
2169	Potassium nickelate (solids)	z-0081	2	2	3,5	35	mg/m3
2170	Potassium orthovanadate	z-0082	0,06	0,2	0,6	40	mg/m3
2171	Potassium strontium phosphate	z-0083	10	30	50	500	mg/m3
2172	Potassium trihydrogen silicate	z-0084	10	30	50	250	mg/m3
2173	Potassium uranyl carbonate	z-0085	0,4	1	1,75	15	mg/m3
2174	Silver hydroxide	z-0086	0,01	0,035	0,06	10	mg/m3
2175	Sodium antimonite	z-0087	0,75	2,5	4	75	mg/m3
2176	Sodium argentate	z-0088	0,015	0,04	0,075	15	mg/m3
2177	Sodium beryllium oxide	z-0089	0,0125	0,06	0,0625	25	mg/m3
2178	Sodium butyl (2-ethylhexyl)phosphate	z-0090	0,02	0,06	0,4	2	mg/m3
2179	Sodium butyl butylphosphonate	z-0091	0,02	0,06	0,4	2	mg/m3
2180	Sodium cadminate	z-0092	0,01	0,06	0,1	15	mg/m3
2181	Sodium hydrogen lead oxide	z-0093	0,06	0,06	0,06	125	mg/m3
2182	Sodium hydrogen metasilicate	z-0094	4	12,5	75	400	mg/m3
2183	Sodium hydrogen pyrophosphate	z-0095	4	12,5	20	400	mg/m3

Table 3: Recommended TEELs Rev. 19 (by CASRN)

No.	Chemical Name	CASRN	Rev. 19 Recommended TEELs				Units of original limits
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
2184	Sodium lanthanate	z-0096	0,4	1,25	2,5	2,5	mg/m3
2185	Sodium metasilicate	z-0097	10	30	50	250	mg/m3
2186	Sodium nickel oxide (liquid)	z-0098	0,6	0,6	1	20	mg/m3
2187	Sodium nickelate (Liquids)	z-0099	0,75	0,75	1,5	30	mg/m3
2188	Sodium nickelate (Solids)	z-0100	1,5	1,5	3	30	mg/m3
2189	Sodium strontium phosphate	z-0101	10	30	50	500	mg/m3
2190	Sodium trihydrogen silicate	z-0102	10	30	50	250	mg/m3
2191	Sodium uranium oxide	z-0103	0,06	0,75	1,25	12,5	mg/m3
2192	Sodium uranyl carbonate	z-0104	0,4	0,75	1,5	15	mg/m3
2193	Strontium nitrite	z-0105	0,04	0,1	0,75	75	mg/m3
2194	Tetrabutyl ammonium phosphate	z-0106	10	30	50	250	mg/m3
2195	Thorium hydroxide	z-0107	0,75	0,75	2,5	75	mg/m3
2196	Thorium nitrite	z-0108	0,05	0,125	0,75	75	mg/m3
2197	Tin nitrate	z-0109	4	12,5	20	200	mg/m3
2198	Tin nitrite	z-0110	3,5	10	15	150	mg/m3
2199	Titanium-based alloy; (Titanium compounds)	z-0111	10	30	50	250	mg/m3
2200	Tripotassium (2-hydroxyethyl)-ethylenediaminetriacetate; (HEDTA)	z-0112	0,35	1	7,5	40	ppm
2201	Tripotassium arsenate	z-0113	0,035	0,1	0,15	15	mg/m3
2202	Uranium telluride	z-0114	0,075	1	1,75	15	mg/m3
2203	Uranium: insoluble compounds	z-0115	0,05	0,6	1	10	mg/m3
2204	Uranium: soluble compounds	z-0116	0,05	0,6	1	10	mg/m3
2205	Uranyl hydroxide	z-0117	0,06	0,75	1,25	12,5	mg/m3
2206	Uranyl hydroxide (liquids)	z-0118	0,06	0,75	1,25	12,5	mg/m3
2207	Uranyl nitrite (liquids)	z-0119	0,075	0,75	1,5	15	mg/m3
2208	Zirconium boride	z-0120	6	12,5	12,5	60	mg/m3
2209	Zirconium nitride	z-0121	6	10	12,5	60	mg/m3
2210	Zirconium nitrite	z-0122	7,5	15	15	75	mg/m3
2211	Zirconium phosphide	z-0123	7,5	15	15	75	mg/m3
2212	Zirconium silane	z-0124	7,5	15	15	75	mg/m3
2213	zzAcrylic latex	z-0125	10	30	50	250	mg/m3
2214	zzAlumination 301	z-0126	10	30	50	250	mg/m3
2215	zzDPD free chlorine reagent	z-0127	0,0015	0,004	0,0075	0,2	mg/m3
2216	zzDPD total chlorine reagent	z-0128	0,0015	0,004	0,0075	0,2	mg/m3
2217	zzHydranal coulomat / AG	z-0129	10	30	50	250	mg/m3
2218	zzHydrocarbon polymer	z-0130	10	30	50	250	mg/m3
2219	zzHydrocount(R), LSC cocktail	z-0131	10	30	50	250	mg/m3
2220	zzIconol(R)	z-0132	10	30	50	250	mg/m3
2221	zzLeco set 7007 powder	z-0133	10	30	50	250	mg/m3
2222	zzMachine coolant 1	z-0134	10	30	50	250	mg/m3

Table 3: Recommended TEELs Rev. 19 (by CASRN)

No.	Chemical Name	CASRN	Rev. 19 Recommended TEELs				Units of original limits
			TEEL-0	TEEL-1	TEEL-2	TEEL-3	
2223	zzMonophase- S	z-0135	10	30	50	250	mg/m3
2224	zzMornar	z-0136	10	30	50	250	mg/m3
2225	zzOpti-Fluor; (Alkyl benzene blend, 3% tributylphophate)	z-0137	7,5	25	37,5	250	mg/m3
2226	zzPaint solvent	z-0138	10	10	10	10	mg/m3
2227	zzPropanol (-2) aluminum derivative	z-0139	2	6	10	50	mg/m3
2228	zzScintillation cocktail, Ultima Gold XR	z-0140	0,15	0,5	3	15	mg/m3
2229	zzSicapent	z-0141	10	30	50	250	mg/m3
2230	zzSynthetic resins	z-0142	10	30	50	250	mg/m3
2231	zzTotal sequestrant reagent #5	z-0143	35	40	100	500	mg/m3
2232	zzTrifluoroacetyl)-N,0,0,0-tetrakis((TMS)norepinephrine, N-(	z-0144	0,04	0,125	0,75	7,5	mg/m3
2233	zzWaste oil	z-0145	10	30	50	250	mg/m3
2234	zzXtraction II	z-0146	10	30	50	250	mg/m3