

Klorgasutsläpp från en fabrik i farmaceutisk industri

960601 MARS 1996_06

I en tank med natriumhypoklorit uppstod en lateral spricka där natriumhypoklorit läckte ut. Klorgas bildades. Människor drabbades av klorförgiftning, men även växtligheten kring fabriken fick utstå påverkan från klor. Räddningstjänsten använde sig av vatten för att späda ut gasutsläppet.

Inblandade ämnen och mängder

	CAS Nr.	Mängd
natriumhypoklorit (12%)	7681-52-9	2000 liter
väteklorid (36%)	7647-01-00	okänt
klor	7782-50-5	okänt

Skador:

Människor:	Ett 70-tal personer behövde hjälp för irritationer av olika slag. 4 av dessa tog sin på sjukhus.
Materiella:	Inga.
Miljö/ekologi:	Inga effekter rapporterade.
Infrastruktur:	Allmänheten varnades och hölls borta från olycksplatsen. Ungefär 200 personer evakuerades.

Erfarenheter redovisade (Ja/Nej): Nej

Report Profile

Identification of Report:

country: FA ident key: 1996_006_01

reported under Seveso I directive as major accident reports: SHORT

Date of Major Occurrence: Time of Major Occurrence

start: 1996-06-01 start: 01:00:00

finish: 1996-06-01 finish: 03:15:00

Establishment:

name:

address:

industry: - not applicable -

Pharmaceutical (code 2004)

Seveso II status: not applicable: Yes art. 6 (notification): No

art. 7 (MAPP): No

art. 9 (safety report): No

Date of Report:

short: full:

Authority Reporting:

name:

address:

Authority Contact:**rep_cont_name:****rep_cont_phone:****rep_cont_fax:****Additional Comments:**

a) - not applicable -

b) - not applicable -

c) - not applicable -

d) - not applicable -

e) - not applicable -

Short Report**country:** FA **ident key:** 1996_006_01**Accident Types:****release:** Yes **explosion:** No**water contamination:** No **other:** No**fire:** No**description:**

In a vertical depot charged with 6000 l of sodium hypochlorite (12%) a lateral leak occurred, for the crack of the upper side and damaging a pipe in which flowed hydrochloric acid (36%). A chlorine cloud and its by-products formed which aff... see Appendix Short Report / description of accident types

Substance(s) Directly Involved:**toxic:** Yes **explosive:** No**ecotoxic:** Yes **other:** No**flammable:** No**description:**

ClONa (12%) - 2000 l approximately - CAS code 1438-06-11

ClH (36%) unknown quantity CAS code 7647-01-00

Immediate Sources of Accident:**storage:** Yes **transfer:** Yes**process:** No **other:** No**description:**

Storage and transfer area in a depot of 30.000 l capacity, charged approximately with 6000 l of sodium hypochlorite (12%)

Suspected Causes:**plant or equipment:** Yes **environmental:** No**human:** No **other:** No**description:**

Up to the conclusions of the Report of the industry department, it is supposed as a possible cause a defect in

the connection of the depot basis.

Immediate Effects:

material loss: No

human deaths: No

human injuries: Yes **community disruption:** No

other: No

ecological harm: Yes

national heritage loss: No

description:

Approximately 70 persons needed medical care for irritations, 4 of them were hospitalized. The cloud of chlorine by-products involved also the vegetation around the installation.

Emergency Measures taken:

on-site systems: No **decontamination:** No

external services: Yes **restoration:** No

sheltering: Yes **other:** No

evacuation: Yes

description:

Intervention of the firemen for diluting the cloud. Control of the access to the zone. Confining of the population. Evacuation of about 200 persons.

Immediate Lessons Learned:

prevention: Yes **other:** No

mitigation: No

description:

To ensure the correct connection of the storage depots.

Appendices for the FA / 1996_006_01 report

Appendix Short Report / description of accident types:

In a vertical depot charged with 6000 l of sodium hypochlorite (12%) a lateral leak occurred, for the crack of the upper side and damaging a pipe in which flowed hydrochloric acid (36%). A chlorine cloud and its by-products formed which affected various persons and the environment.