

Klorutsläpp från ett blekeri på en pappersfabrik.

900129 MARS 1990_13

Klorutsläppet inträffade vid en lossning av klor från en tankbil till en lagertank på fabriken. En ventil öppnades felaktigt av chauffören och klor kunde släppa ut. Utsläppet bekämpades bl.a. med vattengardiner. Rapporten är mycket knapphändig.

Inblandade ämnen och mängder

	CAS Nr.	Mängd
klor	7782-50-5	3680 kg

Skador:

Människor: 10 personer förgiftades. 7 av dessa arbetade på fabriken, 2 på ett grannföretag, och en brandman. Samtliga fördes till sjukhus för observation dagen därpå.

Materiella: Inga.

Miljö/ekologi: Inga effekter rapporterade.

Infrastruktur: Inga.

Erfarenheter redovisade (Ja/Nej): Nej

Report Profile

Identification of Report:

country: FA ident key: 1990_013_01

reported under Seveso I directive as major accident reports: SHORT

Date of Major Occurrence: Time of Major Occurrence

start: 1990-01-29 start: 15:20:00

finish: finish:

Establishment:

name:

address:

industry: - not applicable -

Production of bleached pulp for paper

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: 1990_013_01

Accident Types:

release: Yes explosion: No

water contamination: No other: No

fire: No

description:

In January 29, 15:20 hrs when was joined the alimentation of pressurized air which opens the automatic valve of chlorine outlet from the vessel truck, the chlorine escaped through the flange union into the storage depot.... see Appendix Short Report / description of accident types

Substance(s) Directly Involved:

toxic: Yes explosive: No

ecotoxic: No other: No

flammable: No

description:

Chlorine 3680 kg

Immediate Sources of Accident:

storage: No transfer: Yes

process: No other: No

description:

Chlorine transfert operation from the tank car for the grinding deposit of the fabrication unit. Escape of 3680 kg of chlorine during the opening of the supply connection of pressurized air actioning the automatic valve of chlorine output ... see Appendix Short Report / description of immediate sources

Suspected Causes:

plant or equipment: No environmental: No

human: Yes other: No

description:

a) It was not accomplished the sequence of the transfer operation (human error)... see Appendix Short Report / description of suspected causes

Immediate Effects:

material loss: Yes

human deaths: No

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

other: No

ecological harm: No

national heritage loss: No

description:

- not applicable -

Emergency Measures taken:

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

external services: Yes **restoration:** No

sheltering: Yes **other:** No

evacuation: No

description:

- Actuation of of alarm and alertation systems.... see Appendix Short Report / description of emergency

measures taken

Immediate Lessons Learned:

prevention: No **other:** No

mitigation: No

description:

- not applicable -

Appendices for the FA / 1990_013_01 report

Appendix Short Report / description of accident types:

In January 29, 15:20 hrs when was joined the alimentation of pressurized air which opens the automatic valve of chlorine outlet from the vessel truck, the chlorine escaped through the flange union into the storage depot.

The operator executing the operation was involved. The released 3680 kg of chlorine represented the 20% of the charge. In about 2 hours at the presence of the technicians SOLVAY, was realized the transfer of the resting 80% of chlorine.

10 persons were intoxicated - 9 workers, 7 of which were of the CAMA company and 2 of another civil company of construction, 1 fireman. These were brought to the Districtual Hospital of Abrantes for observation up to the following day.

Appendix Short Report / description of immediate sources:

Chlorine transfert operation from the tank car for the grinding deposit of the fabrication unit. Escape of 3680 kg of chlorine during the opening of the supply connection of pressurized air actioning the automatic valve of chlorine output from the truck tank.

Appendix Short Report / description of suspected causes:

- a) It was not accomplished the sequence of the transfer operation (human error)
- b) The motorist of the vessel tank executed part of the foressen operations, particularly the joining of the air comand, against the internal regulation.

Appendix Short Report / description of emergency measures taken:

- Actuation of of alarm and alertation systems.
- Containment of chlorine dispersion in the atmosphere vapours by the firemen which used jets of vapours.
- Utilization of breathing apparatus, rescue and recovering media against respiratory intoxication.