

Ammoniakutsläpp från fabrik i livsmedelsindustrin.

920601

MARS 1992_08

mycket knapphändig rapport

Ammoniak läckte ut på grund av en material bristning och installationen skadades.

Inblandade ämnen och mängder

	CAS Nr.	Mängd
ammoniak	7664-47-1	22 000 kg

Skador:

Människor: Troligen inga. Framgår ej.

Materiella: Troligen inga. Framgår ej.

Miljö/ekologi: Troligen inga. Framgår ej.

Infrastruktur: Troligen inga. Framgår ej.

Erfarenheter redovisade (Ja/Nej): Nej

Report Profile

Identification of Report:

country: FA ident key: 1992_008_01

reported under Seveso I directive as major accident reports: SHORT

Date of Major Occurrence: Time of Major Occurrence

start: 1992-06-01 start: 03:00:00

finish: finish:

Establishment:

name:

address:

industry: - not applicable -

Food Additives (meat and sausage preparation)

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: 1992_008_01

Accident Types:

release: Yes explosion: No

water contamination: No other: No

fire: No

description:

SAFETY SYSTEMS OR OPERATORS INTERVENTION:... see Appendix Short Report / description of accident types

Substance(s) Directly Involved:

toxic: Yes explosive: No

ecotoxic: No other: No

flammable: No

description:

- Ammonia = EG-RL Annex III Nr.22, 600 kg;

Immediate Sources of Accident:

storage: No transfer: No

process: No other: No

description:

Liquid ammonia in the pipes at constant pressure of 1,2 MPa

Suspected Causes:

plant or equipment: Yes environmental: No

human: Yes other: No

description:

INITIATING EVENT AND CONSEQUENCES:... see Appendix Short Report / description of suspected causes

Immediate Effects:

material loss: Yes

human deaths: No

human injuries: No community disruption: No

other: No

ecological harm: No

national heritage loss: No

description:

- Material loss: 1 DS Kaeltemaschinenmotor 55 KW, Amount: 2200,-DM

Emergency Measures taken:

on-site systems: Yes **decontamination:** Yes

external services: No **restoration:** No

sheltering: Yes **other:** No

evacuation: No

description:

INTERNAL TO THE ESTABLISHMENT:... see Appendix Short Report / description of emergency measures taken

Immediate Lessons Learned:

prevention: Yes **other:** No

mitigation: No

description:

Prescription of tests in the pipes and tanks of ammonia plant, executed by experts.

Appendices for the FA / 1992_008_01 report

Appendix Short Report / description of accident types:

SAFETY SYSTEMS OR OPERATORS INTERVENTION:

For such failures no safety system can be applied.

ENVIRONMENTAL AND ATMOSPHERIC CONDITIONS:

Normal atmospheric conditions

Appendix Short Report / description of suspected causes:

INITIATING EVENT AND CONSEQUENCES:

The ammonia pipes leaked due to a faulty screw connection. Material defects caused damage in the screw connection.

CAUSES:

Defective material! Rupture of strap bolt in the ammonia corner-valve

Appendix Short Report / description of emergency measures taken:

INTERNAL TO THE ESTABLISHMENT:

- Closure of the valves in the pipes;
- Electrical energy supply maintained through main switch from the separated network;
- Neutralisation of NH₃ by water.

EXTERNAL TO THE ESTABLISHMENT:

Free NH₃ neutralised by the factory of Muehlausen.