

## Utsläpp av kväveoxider från en kemikaliefabrik.

930513 MARS 1993\_09

Vid tömning av en tank som innehöll 11 ton syrablandning kom vatten att hällas i de kvarvarande 600 kg syra. Under den häftiga reaktion som följde bildades kväveoxider som släpptes ut. Räddningstjänsten informerades omedelbart och tanken kylde utvändigt med vatten. Vattengardiner användes för att begränsa spridningen av kväveoxider. Grannföretagen och allmänheten varnades för utsläpp av kväveoxider.

### Inblandade ämnen och mängder

	CAS Nr.	Mängd
kväveoxider		90 kg

### Skador:

Människor: Inga.  
Materiella: Inga.  
Miljö/ekologi: Inga effekter rapporterade.  
Infrastruktur: Inga.

**Erfarenheter redovisade (Ja/Nej): Nej**

## Report Profile

### Identification of Report:

country: FA ident key: 1993\_009\_01

reported under Seveso I directive as major accident reports: SHORT

### Date of Major Occurrence: Time of Major Occurrence

start: 1993-05-13 start: 10:00:00

finish: finish:

### Establishment:

name:

address:

industry: - not applicable -

Plant for production of paint or coating materials or printing inks

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: 1993\_009\_01

**Accident Types:**

release: Yes explosion: No

water contamination: No other: No

fire: No

**description:**

During the chemical disposal of the standing-idle part of the sulpho-unit a tank containing 11 t of an acid mixture was emptied by aspiration. In the tank remained a residue quantity of about 600 l. The complete discharge did not succeed, s... see Appendix Short Report / description of accident types

**Substance(s) Directly Involved:**

toxic: Yes explosive: No

ecotoxic: No other: No

flammable: No

**description:**

Nitrous gases, ca, 90 kg

**Immediate Sources of Accident:**

storage: Yes transfer: No

process: No other: No

**description:**

Storage vessel for acid mixture (35% HNO<sub>3</sub> + 65% H<sub>2</sub>SO<sub>4</sub>)

**Suspected Causes:**

plant or equipment: No environmental: No

human: No other: No

**description:**

- not applicable -

**Immediate Effects:**

material loss: Yes

human deaths: No

human injuries: No 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:** No **restoration:** No

**sheltering:** No **other:** Yes

**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:**

Complete disconnection of measurement containers, intermediate containers and tanks; detailed instruction of the workers employed in the reconstruction.

## **Appendices for the FA / 1993\_009\_01 report**

### **Appendix Short Report / description of accident types:**

During the chemical disposal of the standing-idle part of the sulpho-unit a tank containing 11 t of an acid mixture was emptied by aspiration. In the tank remained a residue quantity of about 600 l. The complete discharge did not succeed, since the corresponding workmen were charged to dismantle the pipings of the external tank measurement points. Due to a light gas release revealed during the piping dismantling these measurement points were cleaned by a water tube to eliminate the acid residues and dirtiness. Washing water reached the acid mixture storage tank through the overflow pipe of these external measurement points. Due to the uncontrolled immission of water in the tank with acid mixture there was a release of nitrous gases.

### **Appendix Short Report / description of emergency measures taken:**

Internal to the establishment:

The fire brigade was immediately informed. The tank was cooled by water, the nitrogen oxide was condensed by water screen.

External to the establishment

The near companies were warned, the population was informed.