

# Brand på en anläggning för produktion och destruering av sprängämnen.

960418

Olyckan uppstod i samband med destruering av raketbränsle. Raketbränslet, en blandning av bl.a. 14 kg magnesium och 15 kg kaliumnitrat, fattade eld och bildade en eldboll med 4 m diameter som varade i 12 sekunder. Larmsystemen fungerade tillfredsställande. Vatten behövde inte användas för att bekämpa branden. Orsakerna till olyckan var under utredning när rapporten skrevs.

## Inblandade ämnen och mängder

	CAS Nr.	Mängd
magnesium (reaktant)		14 kg
kaliumnitrat (reaktant)		15 kg
magnesiumdioxid (produkt)		22 kg
kaliumoxid (produkt)		8 kg
kväveoxid (produkt)		2 kg

## Skador:

Människor:	En person skadades och fördes till sjukhus.
Materiella:	Omfattande materiella skador.
Miljö/ekologi:	Inga effekter rapporterade.
Infrastruktur:	Inga effekter.

## Erfarenheter redovisade (Ja/Nej): Ja

Kortfattat anges förebyggande åtgärder

## Report Profile

### Identification of Report:

country: FA ident key: 1800\_157\_01

reported under Seveso I directive as major accident reports: SHORT

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

start: 18/04/1996 start: 18:40:00

finish: 18/04/1996 finish: 18:40:12

### Establishment:

name:

address:

industry: 2999 other

Explosive substance production, processing, recovery or destruction plant

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:** 1800\_157\_01

**Accident Types:**

**release:** No **explosion:** No

**water contamination:** No **other:** No

**fire:** Yes

**description:**

A fire occurred in the rocket fuel decommissioning building, during the crushing of rocket fuel in a shredder.

A fireball of about 4 meters diameter lasting 12 seconds was formed.

**Substance(s) Directly Involved:**

**toxic:** No **explosive:** No

**ecotoxic:** No **other:** No

**flammable:** Yes

**description:**

14 kg magnesium powder and 15 kg potassium nitrate took fire generating about 22 kg magnesium dioxide, 8 kg

potassium oxide, 2 kg nitrogen oxide.

**Immediate Sources of Accident:**

**storage:** No **transfer:** No

**process:** No **other:** Yes

**description:**

decommissioning of rocket fuel

**Suspected Causes:**

**plant or equipment:** No **environmental:** No

**human:** No **other:** Yes

**description:**

under investigation

## **Immediate Effects:**

**material loss:** Yes

**human deaths:** No

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

**other:** No

**ecological harm:** No

**national heritage loss:** No

**description:**

one person was hospitalised, large material damages.

## **Emergency Measures taken:**

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

**external services:** Yes **restoration:** No

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

**evacuation:** No

**description:**

The alarm systems worked, the fire-fighters did not have to use water, working activities on the premises were temporarily interrupted.

## **Immediate Lessons Learned:**

**prevention:** Yes **other:** No

**mitigation:** Yes

**description:**

Descriptions of all new chemical processes to be adopted shall be submitted to the regulatory authority in order to verify the compliance with industrial safety prescriptions. Additional control of all technical installations and working in... see Appendix Short Report / description of immediate lessons learned

# **Appendices for the FA / 1800\_157\_01 report**

## **Appendix Short Report / description of immediate lessons learned:**

Descriptions of all new chemical processes to be adopted shall be submitted to the regulatory authority in order to verify the compliance with industrial safety prescriptions. Additional control of all technical installations and working instructions by an external expert. Additional emergency training. Recalculation of threshold amounts of explosive substances at working places, working with explosives under safe conditions, and placing the explosives in sealed containers after each working phase (change in procedures, hazard analysis, more training).