

## Brand på en fabrik för produktion av gummi och plaster.

950724

Olyckan hade troligen sitt ursprung på lagerområdet. Från en tunna med lösningsmedel som inte slöt tätt hade ångor släppts ut och förmodligen antänts vid kontakt med någon elektrisk installation. Ett 80-tal män bekämpade branden i två timmar. Anläggningen totalförstördes av branden.

### Inblandade ämnen och mängder

	CAS Nr.	Mängd
PCB	1336-36-3	okänt
polycarbonate		okänt
acrylonitrile butadiene styrene (ABS)		okänt
polystyren	90003-53-6	okänt
polypropylen	9003-07-0	okänt
lösningsmedel		

### Skador:

Människor:	Personskador förekom, men specificeras inte.
Materiella:	Omfattande skador på anläggningen.
Miljö/ekologi:	Inga effekter rapporterade.
Infrastruktur:	Inga effekter rapporterade.

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

Mycket kortfattat anges förebyggande åtgärder.

## Report Profile

### Identification of Report:

country: FA ident key: 1800\_210\_01

reported under Seveso I directive as major accident reports: SHORT+FULL

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

start: 24/07/1995 start: 06:00:00

finish: 24/07/1995 finish:

### Establishment:

name:

address:

industry: 2003 plastics and rubber manufacture

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\_210\_01

**Accident Types:**

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

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

**fire:** Yes

**description:**

Total destruction of a plant by a fire. Significant material losses, ecological harm and injuries.

**Substance(s) Directly Involved:**

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

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

**flammable:** Yes

**description:**

solvents, plastics

**Immediate Sources of Accident:**

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

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

**description:**

flammable solvent drum

**Suspected Causes:**

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

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

**description:**

ignition of solvent vapours

**Immediate Effects:**

**material loss:** Yes

**human deaths:** No

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

**other:** No

**ecological harm:** Yes

**national heritage loss:** No

**description:**

general conflagration (full fire development ) in the plant

### **Emergency Measures taken:**

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

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

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

**evacuation:** No

**description:**

80 fire-fighters have fought the fire for 2 hours.

### **Immediate Lessons Learned:**

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

**mitigation:** No

**description:**

Introduction of protection measures for a transformer containing PCB.

## **A Occurrence Full Report**

**country:** FA **ident key:** 1800\_210\_01

### **1 Type of Accident**

**remarks:** - not applicable -

### **2 Dangerous Substances**

**remarks:** the establishment inventory was of approx. 50 tons of different plastics and precisely the ones named above

(solvent - category from Seveso II - flammable liquids?? see point 3 c)

### **3 Source of Accident**

**illustration:** no attached materials

**remarks:** it is supposed that a solvent drum (flash point 30 °C) was not closed or air tight. The vapours may have been released and ignited getting in contact with electrical installations.

### **4 Meteorological Conditions**

**precipitation none: fog: rain: hail: snow:**

No No No No No

**wind speed (m/s):**

**direction (from):**

**stability (Pasquill):**

**ambient temperature (°C):**

remarks: - not applicable -

## 5 Causes of Major Occurrence

### main causes

**technical / physical** 5105 operation: instrument/control/monitoring-device failure

- not applicable -

- not applicable -

- not applicable -

- not applicable -

**human / organizational** - not applicable -

- not applicable -

- not applicable -

- not applicable -

- not applicable -

remarks: - not applicable -

## 6 Discussion about the Occurrence

- not applicable -

**Type of Accident** country: FA ident key: 1800\_210\_01

event:

**major occurrence** 1201 fire: conflagration (a general engulfment fire)

**initiating event** 1204 fire: flash fire (burning vapour cloud, subsonic flame front)

**associated event** 1404 other: firewater runoff into ground

## Dangerous substances

country: FA ident key: 1800\_210\_01

### a) total establishment inventory

**CAS number:** 1336-36-3 **identity:** PCB (polychlorobiphenyls)

**name from Seveso I Directive:** - not applicable -

**name from Seveso II Directive:** - not applicable -

**category from Seveso II:** - not applicable -

**other hazards (1):** - not applicable -

**other hazards (2):** - not applicable -

**maximum quantity (tonnes):** -1

**use of substance as:** - not applicable -

**b) substance belongs to relevant inventory directly involved:** No

**actual quantity:** 0 **potential quantity:** 0

**c) substance belongs to relevant inventory indirectly involved:** No

**actual quantity:** 0 **indir\_pot\_quant:** 0

### a) total establishment inventory

**CAS number:** **identity:** polycarbonate

name from Seveso I Directive: - not applicable -

name from Seveso II Directive: - not applicable -

category from Seveso II: - not applicable -

other hazards (1): - not applicable -

other hazards (2): - not applicable -

maximum quantity (tonnes): -1

use of substance as: - not applicable -

**b) substance belongs to relevant inventory directly involved: No**

actual quantity: 0 potential quantity: 0

**c) substance belongs to relevant inventory indirectly involved: No**

actual quantity: 0 indir\_pot\_quant: 0

**a) total establishment inventory**

CAS number: identity: acrylonitrile butadiene styrene (ABS)

name from Seveso I Directive: - not applicable -

name from Seveso II Directive: - not applicable -

category from Seveso II: - not applicable -

other hazards (1): - not applicable -

other hazards (2): - not applicable -

maximum quantity (tonnes): -1

use of substance as: - not applicable -

**b) substance belongs to relevant inventory directly involved: No**

actual quantity: 0 potential quantity: 0

**c) substance belongs to relevant inventory indirectly involved: No**

actual quantity: 0 indir\_pot\_quant: 0

**a) total establishment inventory**

CAS number: 90003-53-6 identity: polystyrene (styrene polymer)

name from Seveso I Directive: - not applicable -

name from Seveso II Directive: - not applicable -

category from Seveso II: - not applicable -

other hazards (1): - not applicable -

other hazards (2): - not applicable -

maximum quantity (tonnes): -1

use of substance as: - not applicable -

**b) substance belongs to relevant inventory directly involved: Yes**

actual quantity: 5 potential quantity: -1

**c) substance belongs to relevant inventory indirectly involved: No**

actual quantity: 0 indir\_pot\_quant: 0

**a) total establishment inventory**

CAS number: 9003-07-0 identity: polypropylene (propene polymers)

name from Seveso I Directive: - not applicable -

name from Seveso II Directive: - not applicable -

category from Seveso II: - not applicable -

other hazards (1): - not applicable -

other hazards (2): - not applicable -

maximum quantity (tonnes): -1

use of substance as: - not applicable -

**b) substance belongs to relevant inventory directly involved: Yes**

actual quantity: 12 potential quantity: -1

**c) substance belongs to relevant inventory indirectly involved: No**

actual quantity: 0 indir\_pot\_quant: 0

**a) total establishment inventory**

CAS number: identity: solvent

name from Seveso I Directive: - not applicable -

name from Seveso II Directive: - not applicable -

category from Seveso II: - not applicable -

other hazards (1): - not applicable -

other hazards (2): - not applicable -

maximum quantity (tonnes): 2

use of substance as: starting material

**b) substance belongs to relevant inventory directly involved: Yes**

actual quantity: -1 potential quantity: -1

**c) substance belongs to relevant inventory indirectly involved: No**

actual quantity: 0 indir\_pot\_quant: 0

**Source of Accident - Situation** country: FA ident key: 1800\_210\_01

**situation**

industry

initiating event - not applicable -

associated event - not applicable -

activity/unit

major occurrence 3104 process: physical operations (mixing, melting crystallizing, etc.)

initiating event - not applicable -

associated event - not applicable -

component

major occurrence 4006 free placement (unconfined pile, stack,etc; if bagged or in cylinders, more...F1!)

**initiating event** 4003 container; non-pressurised (hopper, tank, drum, bag, etc.)

**associated event** - not applicable -

## **B Consequences Full Report**

**country:** FA **ident key:** 1800\_210\_01

### **1 Area concerned**

**affected**

**extent of effects installation:** Yes

**establishment:** Yes

**off-site; local:** Yes

**off-site; regional:** No

**off-site; transboundary:** No

**illustration of effects** no attached materials

**remarks** - not applicable -

### **2 People**

**establishment popul. emergency personnel off-site population**

**total at risk** 200 -1 -1

**immediate fatalities** 0 0 0

**subsequent fatalities** 0 0 0

**hospitalizing injuries** 0 0 0

**other serious injuries** 0 0 0

**health monitoring** 1 0 0

**remarks** the 200 employees have temporarily been put out of work.... see Appendix Full Report B / people

### **3 Ecological Harm**

**pollution/contamination/damage of:**

- **residential area (covered by toxic cloud)** Suspected

- **common wild flora/fauna (death or elimination)** not applicable

- **rare or protected flora/fauna (death or elimination)** not applicable

- **water catchment areas and supplies for consumption or recreation** not applicable

- **land (with known potential for long term ecological harm or not applicable**

**preventing human access or activities)**

- **marine or fresh water habitat** not applicable

- **areas of high conservation value or given special protection** not applicable

**remarks** - not applicable -

### **4 National Heritage Loss**

**effects on:**

- **historical sites** None - **historic monuments** None

- **historic buildings** None - **art treasures** None

remarks - not applicable -

## 5 Material Loss

establishment losses off site losses

costs (direct costs to operator) (social costs)

in ECU FFR ECU FFR

material losses 3E+07 2E+08 0 0

response, clean up, restoration 0 0 0 0

remarks - not applicable -

## 6 Disruption of Community Life

establishment/plant evacuated disabled/unoccupiable destroyed

- nearby residences/hotels No No No

- nearby factories/offices/small shops No No No

- schools, hospitals, institutions No No No

- other places of public assembly No No No

interruption of utilities etc. no / yes duration

- gas No

- electricity No

- water No

- sewage treatment works No

- telecommunications No

- main roads No

- railways No

- waterways No

- air transport No

significant public concern none local level national level

- off site populations No Yes No

- media interest No Yes No

- political interest No No No

remarks - not applicable -

## 7 Discussion of Consequences

- not applicable -

## Ecological Components involved

country: FA ident key: 1800\_210\_01

type: 6201 freshwater: freshwater reservoir

threatened: Suspected affected: Suspected

## C Response Full Report



country: FA ident key: 1800\_210\_01

## 1 Emergency Measures

**taken - on site** - not applicable - - not applicable -

- not applicable - - not applicable -

- not applicable - - not applicable -

**- off site** - not applicable - - not applicable -

- not applicable - - not applicable -

- not applicable - - not applicable -

**still - on site** - not applicable - - not applicable -

**required**

- not applicable - - not applicable -

- not applicable - - not applicable -

**- off site** - not applicable - - not applicable -

- not applicable - - not applicable -

- not applicable - - not applicable -

**continuing contamination or danger**

**-on site** not applicable

**-off site** not applicable

**remarks** - not applicable -

## 2 Seveso II Duties

**pre-accident evaluation**

**Article item not due yet not done done/submitted evaluated**

**6 notification** No No No No

**7 policy (MAPP)** No No No No

**9 safety report** No No No No

**9, 10, 11 update** No No No No

**11 internal plan** No No No No

**11 external plan** No No No No

**13 informing public** No No No No

**9, 12 siting policy** No No No No

**post-accident evaluation**

**Seveso II duty was actual were actual compared with actual**

**contingency consequences consequences, the**

**addressed? addressed? predicted extent was?**

**Article item**

**7 policy (MAPP)** not applicable not applicable not applicable

**9 current safety report** not applicable not applicable not applicable

**11 internal plan** not applicable not applicable not applicable

11 external plan not applicable not applicable not applicable

13 informing public not applicable not applicable not applicable

9, 12 siting policy not applicable not applicable not applicable

**evaluation of safety organisation**

organisational element element existed did element relate to actual circumstances of

yes / no no / partly / yes adequate?

- written policy objectives No

- specified management No

structure

- specified responsibilities No

- specified working procedures No

- specified procedures for No

assessment/auditing of

management system

- specified procedures for No

review and update of

management policy

- specified general training No

procedures

- specified emergency No

training procedures

evaluation of ecological impact control

organisational element element existed did element relate to actual circumstances of

yes / no no / partly / yes adequate?

- ecological status review No

before incident

- potential ecological No

consequences assessment

- ecological impact review No

after incident

- ecological restoration No

procedures

- subsequent review of No

restoration success

remarks - not applicable -

**3 Official Action Taken**

legal action

- not applicable -

other official action

- not applicable -

**4 Lessons Learned**

**measures to prevent recurrence**

Probably the destroyed install... see Appendix Full Report C / lesson learned - prevent

**measures to mitigate consequences:**

no information is given

**useful references:**

no information is given

**5 Discussion about Response**

- not applicable -

**Appendices for the FA / 1800\_210\_01 report**

**Appendix Full Report B / people:**

the 200 employees have temporarily been put out of work.

**Appendix Full Report C / lesson learned - prevent:**

Probably the destroyed installations will not be rebuilt