

Brand på en kemikaliefabrik

940914 MARS 1994_08

Acetylenanläggningen var i rutinmässig drift. Av outredd anledning uppstod ett utsläpp av acetylen som antändes i närheten av en operatör. Operatören släckte sina kläder under en nöddusch och aktiverade nödstoppet. Huvudoperatören larmade den interna brandkåren. Den brännskadade operatören fick hjälp och branden var släckt inom kort.

Inblandade ämnen och mängder

	CAS Nr.	Mängd
acetylen	74-86-2	okänt

Skador:

Människor: 1 person fick allvarliga brännskador.

Materiella: Inga.

Miljö/ekologi: Inga effekter rapporterade.

Infrastruktur: Inga.

Erfarenheter redovisade (Ja/Nej): Nej

Report Profile

Identification of Report:

country: FA ident key: 1994_008_01

reported under Seveso I directive as major accident reports: SHORT

Date of Major Occurrence: Time of Major Occurrence

start: 1994-09-14 start:

finish: finish:

Establishment:

name:

address:

industry: - not applicable -

Plant for production of substances through chemical reaction

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: 1994_008_01

Accident Types:

release: No explosion: No

water contamination: No other: No

fire: Yes

description:

The acetylene plant was in normal operation. There was no variation from the set-point parameters. The carbide loading on the pilot-container (large area sight container) was stopped and the breech of the loading chamber locked. During the... see Appendix Short Report / description of accident types

Substance(s) Directly Involved:

toxic: No explosive: No

ecotoxic: No other: No

flammable: Yes

description:

Acetylene

Immediate Sources of Accident:

storage: No transfer: No

process: No other: No

description:

- not applicable -

Suspected Causes:

plant or equipment: Yes environmental: No

human: No other: No

description:

The event is attributable to the slip of the relief tube at the connection to the larger-chamber. (Human error of organization)

Immediate Effects:

material loss: No

human deaths: No

human injuries: Yes community disruption: No

other: No

ecological harm: No

national heritage loss: No

description:

1 person (the operator) suffered severe burns.

Emergency Measures taken:

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

external services: No **restoration:** No

sheltering: No **other:** No

evacuation: No

description:

The injured man extinguished the fire on his cloths under the emergency shower and activated the emergency shut-off system. The firemen were immediatly alarmed by the chief operator, who at the same time extinguished the fire in it source.... see Appendix Short Report / description of emergency measures taken

Immediate Lessons Learned:

prevention: Yes **other:** No

mitigation: No

description:

Technical modification of the large container (shut-off valce connection)

Appendices for the FA / 1994_008_01 report

Appendix Short Report / description of accident types:

The acetylene plant was in normal operation. There was no variation from the set-point parameters. The carbide loading on the pilot-container (large area sight container) was stopped and the breech of the loading chamber locked. During the following depressurization process of the chamberr (from the service pressure 0,8-1 bar to atmospherical pressure) occurred the slip of the relief tube connecting the chamber at its plug. The acetylene escaping from the developper room was ignited, the plant operator suffered severe burns.It's high probable that the ignition source,was the electrostatic load of the carbide dust transported. The acetylene plant was not damaged and no effects to the rest of the installation and people living around. By an expert judgement and supervision the hose-plug-connection was not sufficient to withstand the pressure of 1 bar.

Appendix Short Report / description of emergency measures taken:

The injured man extinguished the fire on his cloths under the emergency shower and activated the emergency shut-off system. The firemen were immediatly alarmed by the chief operator, who at the same time extinguished the fire in it source. After ten minutes intervened the rescue team and the firemen, they took care of the injured. The fire extinguishing did not last long.