Utsläpp av miljögifter från en fabrik för produktion av pesticider. 941003 Mycket kortfattad.

Utsläppet orsakades av ett bristfälligt filter. Utsläppet förefaller ha fortgått under en dryg veckas tid innan det upptäcktes. Det datum som anges är det tidigaste datum då utsläppet anses kunna ha börjat. Den utsläppta 2, 4-diklor-fenoxi-ättiksyran spreds över ett jordbruksområde på ca 30 ha, där den huvudsakliga verksamheten var grönsaksodling. Grönsaker som misstänktes vara förorenade kasserades och jordmånen behandlades.

Inblandade ämnen och mängder

CAS Nr. Mängd 2, 4-diklor-fenoxi-ättiksyra 94-75-7 okänt

Skador:

Människor:

Materiella:

Miljö/ekologi: 30 ha jordbruksland förorenades. Omfattningen av föroreningen

bestämdes genom att effekter på grödan, främst grönsaker, bedömdes.

Haltbestämningar av giftet kunde inte göras med säkerhet.

Infrastruktur:

Erfarenheter redovisade (Ja/Nej): Nej

Report Profile

Identification of Report:

country: FA ident key: 1800_011_01

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

Date of Major Occurrence: Time of Major Occurrence

start: 03/10/1994 start: finish: 13/10/1994 finish:

Establishment:

name:

address:

industry: 2004 pesticides, pharmaceuticals, other fine chemicals

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
Short Report
country: FA ident key: 1800_011_01
Accident Types:
release: Yes explosion: No
water contamination: No other: No
fire: No
description:
30 ha of agricultural and were contaminated; large external damages
Substance(s) Directly Involved:
toxic: Yes explosive: No
ecotoxic: Yes other: No
flammable: No
description:
2,4-D - (2,4 phenoxy) - Acetic acid - (herbicide)
Immediate Sources of Accident:
storage: No transfer: No
process: Yes other: No
description:
failure of the filtering system
Suspected Causes:
plant or equipment: Yes environmental: No
human: Yes other: No
description:
ineffective control of the filtering system
Immediate Effects:
material loss: No
human deaths: No
human injuries: No community disruption: No
other: No

ecological harm: Yes

national heritage loss: No

description:

Pollution of 30 ha agricultural land (horticulture)

Emergency Measures taken:

on-site systems: No decontamination: Yes

external services: Yes restoration: Yes

sheltering: No other: No

evacuation: No

description:

destruction of contaminated cultures and soil remediation

Immediate Lessons Learned:

prevention: No other: No

mitigation: Yes

description:

no further information is given

A Occurrence Full Report

country: FA **ident key:** 1800_011_01

1 Type of Accident

remarks: Release of eco-toxic substances in the environment

2 Dangerous Substances

remarks: 2,4-D was synthesised in the plant

3 Source of Accident

illustration: An information sheet on the chemical properties and effects of 2,4-D is

annexed

remarks: The filtering system was not sufficiently air-tight (not effective

filtration system)

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 5102 operation: component/machinery failure/malfunction

- not applicable -

```
- not applicable -
- not applicable -
- not applicable -
human / organizational 5305 organization: supervision (none, inadequate, inappropriate)
- not applicable -
- not applicable -
- not applicable -
- not applicable -
remarks: the filters have not been controlled
6 Discussion about the Occurrence
- not applicable -
Type of Accident country: FA ident key: 1800 011 01
major occurrence 1101 release: gas/vapour/mist/etc release to air
initiating event - not applicable -
associated event - not applicable -
Dangerous substances
country: FA ident key: 1800_011_01
a) total establishment inventory
CAS number: 94-75-7 identity: 2, 4-D (2,4 dichlorophenoxy acetic acid)
name from Seveso I Directive: - not applicable -
name from Seveso II Directive: - not applicable -
category from Seveso II: very toxic
other hazards (1): dangerous for the environment R51/53
other hazards (2): - not applicable -
maximum quantity (tonnes): -1
use of substance as: normal finished product
b) substance belongs to relevant inventory directly involved: Yes
actual quantity: 1 potential quantity: -1
c) substance belongs to relevant inventory indirectly involved: No
{\bf actual\ quantity:}\ 0\ {\bf indir\_pot\_quant:}\ 0
Source of Accident - Situation country: FA ident key: 1800_011_01
situation
industry
inititating event - not applicable -
associated event - not applicable -
activity/unit
major occurrence 3101 process: chemical batch reaction
```

```
inititating event - not applicable -
associated event - not applicable -
component
major occurrence 4007 machinery/equipment (pump, filter, column seperator, mixer, etc.)
inititating event - not applicable -
associated event - not applicable -
```

B Consequences Full Report

country: FA ident key: 1800_011_01

1 Area concerned

affected

extent of effects installation: Suspected

establishment: Suspected

off-site; local: Yes

off-site; regional: No

off-site; transboundary: No

illustration of effects No information is given

remarks The beginning of the pollution occurrence could not be precisely determined; how... see Appendix

Full Report B / area concerned - remarks

2 People

establishment popul. emergency personnel off-site population

total at risk 0 0 0

immediate fatalities 0 0 0

subsequent fatalities 0 0 0

hospitalizing injuries 0 0 0

other serious injuries $0\ 0\ 0$

health monitoring 0 0 0

remarks There have been no health effects on human beings.

3 Ecological Harm

pollution/contamination/damage of:

- residential area (covered by toxic cloud) not applicable
- common wild flora/fauna (death or elimination) Suspected
- rare or protected flora/fauna (death or elimination) not applicable
- $\hbox{\bf -water catchment areas and supplies for consumption or recreation } {\tt not applicable}$
- 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

- off site populations No No No

- media interest No Yes No

- political interest No No No

remarks The neighbouring vegetable cultures were declared not adequate for consumption. ... see Appendix

7 Discussion of Consequences

- not applicable -

Ecological Components involved

significant public concern none local level national level

country: FA ident key: 1800_011_01

type: 6106 inland: arable land/crops/vineyards/orchards

threatened: not applicable affected: Yes

C Response Full Report

country: FA ident key: 1800_011_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
9 current safety report not applicable not applicable not applicable
11 internal plan not applicable not applicable
11 external plan not applicable not applicable
13 informing public 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

Introduction of control of the... 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_011_01 report

Appendix Full Report B / area concerned - remarks:

The beginning of the pollution occurrence could not be precisely determined; however, it seems to be that it could not have started before the 03/10/1994; the affected areas are closely related to meteorological conditions. Considering the "moderated" toxicity of the product and the difficulty to determine a 0 point, the polluted zones were primarily determined through the anomalies shown by vegetables.

Appendix Full Report B / disruption of community life:

The neighbouring vegetable cultures were declared not adequate for consumption. However, the continuation of vegetable farming is not in danger.

Appendix Full Report C / lesson learned - prevent:

Introduction of control of the filters