Accident Profile		
Title		
Fire at a warehouse for finished prod	ucts made from silicone and solvents	_
Date/Time of Major Occurrence	Ce Communication of the Commun	
Start Date 28-06-2016	End Date 28-06-2016	_
Accident Type	Reported under	Seveso II Status
Major Accident	EU Seveso III Directive	Upper tier
Industrial Activity		
Plastic and rubber manufacture		
Reasons for Reporting		
Substances involved: greater than 5°	% of quantity in Column 3 of Annex I	
Ğ	6 hospitalizing injuries, evacuation, shelter-in-place	e utility disruption and damage to real estate
Immediate damage to the environme		s, damy distaption and damage to real estate
Damage to property: on-site >2M &e	,	
Cross-border damage: transboundar		
	y accidents	
Interesting for lessons learned.		
Accident Report		
•		
Accident description		
Elamorable Code and and dec		wistens Cue
Flammable linished produc	ets were hit by a forklift, setting off a	i violent lire:
At a Seveso-classified cher	nical factory specialising in silicones	s, a forklift driver was moving a pallet
	• •	canes) in a 2,500 m ² logistics warehouse.
The fork accidentally pierc	ed one of the barrels shortly before r	midday. He placed the affected pallet onto a
mobile containment device	taken from the adjacent storage unit	t before leaving the warehouse. The leaking
1 0 1	` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `	TEX) forklift's metal forks against the
2	• • • • • • • • • • • • • • • • • • • •	uisher and tried to bring the fire under
control. However it spread	rapidly and killed him.	

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Transboundary effects

Contractors

Natech events

Accident involving

Domino effects

Site and installation

Site description

Factory manufacturing plastics in primary forms.

Installation/Unit description

Storage barrels in the vicinity of a logistics warehouse.

Storage

Initiating Events	Equipment Type	
other	other transfer equipment/apparatus/vehicle	

Substances

Substances Involved

Several 200 l barrels of silicone oil (siloxanes).

120 tonnes of finished products stored in the warehouse.

Substances Classification

P2. FLAMMABLE GASES cat. 1 or 2

E1. Hazardous to the Aquatic Environment cat. Acute 1 or Chronic

Substances detail

Substance	CAS Number	Quantities (t.)	
Substance		Involved	Potential
Silicon oil	8012-95-1		

Causes

The leaking product ignited on a hot point caused by friction of the (non-ATEX) forklift's metal forks against the ground.

Consequences

The forklift driver who had been moving the pallet with the damaged barrel died.

A large plume of black smoke rose from the warehouse and could be seen from far away. Residents of a nearby neighbourhood overlooking the site gathered in a park to observe the accident.

A slightly injured in-house firefighter was taken to hospital, as was an employee who passed out due to the heat. The fire destroyed 600 m² of the warehouse and burned 120 tonnes of the 230 tonnes of finished product. The factory was shut down for a week. The 900 m³ of water used to extinguish the fire were stored

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in a containment tank before treatment or treated by skimming into a settlement tank.

Human

On site	Quantity	Quantity/Effect
Fatalities	1	
Injuries	2	

Disruption

Off site	Quantity	Quantity/Effect
infrastructure (telecommunication, roads, railways, waterways, air transport etc		

Emergency Response

The fire detection system alerted the guard post at 11.55 a.m. and the guards notified the unit's firefighters. The firefighters arrived on the scene in less than 5 minutes and fought the fire with two foam trucks. Given the intensity of the fire, the operator launched the internal emergency plan at 12.10 p.m. The 750 employees were told to stay indoors. The emergency services arrived at 12.20 p.m. with 50 engines and around 100 firefighters.

The intensity of the fire and the urban location justified launching the external emergency plan.

As the site was situated beside a motorway in a built-up area, the prefect declared the external emergency plan at 1.10 p.m. Primary schools in the three nearby municipalities were ordered to keep children indoors for 1 hour. The motorway and its access roads were closed, causing numerous tailbacks. The fire was brought under control at 1.50 p.m. following a massive attack with foam monitors. The external emergency plan was lifted at 2.25 p.m. and the motorway access roads reopened.

Emergency Response	Quantity	Quantity/Effect
On-site systems		
Off-site external services		
Sheltering		
Evacuation		
Other		
Remedial Measure	Quantity	Quantity/Effect
Decontamination		
Restoration		
Other		

Lessons Learned

Theme of the Lessons Learned

Emergency Response

Lessons Learned

The intensity of the fire and its location in a built-up area justified launching the external emergency plan: the smoke visible in the Lyon urban area significantly disrupted road traffic.

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Event Profile

Publication Date

12/12/19

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