

Accident Profile

Title

Oil leak from a disused pipeline

Date/Time of Major Occurrence

Start Date 11-12-2007 End Date 11-12-2007

Event Type Reported under Seveso II Status

Major Accident EU Seveso II Directive Upper tier

Industrial Activity

Fuel storage (including heating, retail sale, etc.)

Reasons for Reporting

- ☐ Substances involved: greater than 5% of quantity in Column 3 of Annex I
- ☐ Injury to persons: >= 1 fatalities, >= 6 hospitalizing injuries, evacuation, shelter-in-place, utility disruption and damage to real estate
- ☒ Immediate damage to the environment (according to Annex VI)
- ☐ Damage to property: on-site >2M €, off-site > 0.5M €;
- ☐ Cross-border damage: transboundary accidents
- ☐ Interesting for lessons learned.

Accident Report

Accident description

After information about possible contamination of the water in the nearby pond was announced an investigation of the source of the oil pollution was started. On the basis of oil traces a leak of diesel was found in the Hajek storage site. The disused pipeline that should have been removed was welded together with a steel plate plug. During the unloading of the railway tanker the diesel was squeezed through the closed gates. Consequently the blended pipe line became pressurized which led to a rupture of the lower part of the plug. Due o the fact that there was no visually identifiable pool of diesel and the petrol infiltrated into the absorbent subsoil, the leak of diesel was not noticed even by regular checking of the storage site.

Accident involving

- ☐ Domino effects
- ☐ Natech events
- ☐ Transboundary effects
- ☐ Contractors

Release

Major Occurences

fluid release to ground

Initiating Events

fluid release to ground

Site and installation

Site description

The storage site is situated southwest from the village of Hajek at an attitude of 450 m above sea level on the groundwater divide. There are four ponds, a meadow, fields and a farm in the surroundings.

Installation/Unit description

It is a DN 150 pipeline from 1989 destined for liquidation. The accident caused a cut in the pipe. The end of the pipe was welded together with a steel plate plug.

Storage

Major occurrences	Equipment Type
process-associated (stockholding, etc. on-site of manufacture)	
Initiating Events	Equipment Type
process-associated (stockholding, etc. on-site of manufacture)	

Substances

Substances Involved

Substances Classification

Substances detail

Substance	CAS Number	Quantities (t.)	
		Involved	Potential
New substance	68476-34-6	1.68000	

Causes

joint leakage
rupture of the weld joint

Plant/Equipment

Causative Factor	Type
vessel/container/containment-equipment failure	

Consequences

The diesel leaked into the subsoil drain and part of the banks and the surface of the pond. The total area was approximately 1 hectare. The costs necessary for remediation were 8.7 million Czech Crowns.

Environmental

On site	Quantity	Quantity/Effect
inland: grassland/pasture/meadow	0.00	
Off site	Quantity	Quantity/Effect
inland: rural development	0.00	
inland: grassland/pasture/meadow	0.00	
freshwater: pond/lake	0.00	

Emergency Response

The pipeline that was the cause of the accident was liquidated. Due to the fact that the cause of the accident was the rupture of the weld joint (plug), the assessment was that there is no reason to adopt any other organizational or practical measures.

Emergency Response	Quantity	Quantity/Effect
On-site systems	0.00	
Off-site external services		
Sheltering		
Evacuation		
Other		

Remedial Measure	Quantity	Quantity/Effect
Decontamination	0.00	
Restoration		
Other		

Lessons Learned

Theme of the Lessons Learned

Causes - Plant/Equipment

Lessons Learned

The methods used and the results of the risk assessment of the impact of the major accident on the property, human and the environment are in accordance with legislation and reality. Based on the decision of the competent authority the risk assessment of this operator will be updated and will be set out for a new assessment to the competent authority in the field of major hazard prevention.

Event Profile

Publication Date