Accident Profile						
Title						
Explosion during the	cleaning process after a	fire in a liquid o	caoutchouc unit			
Date/Time of Majo	or Occurrence					
	9-2007	End Date	19-09-2007			
Accident Type		Reported	under		Seveso II	Status
Major Accident	_	EU Seveso			Upper tier	
Industrial Activity						
Plastic and rubber ma	anufacture					
Reasons for Repo	ortina					
	greater than 5% of qua	ntitv in Column	3 of Annex I			
		-		r-in-place, u	itility disruption and dama	age to real estate
	o the environment (acco			' '	, ,	3
_	on-site >2M €, off-	-	·			
	e: transboundary accide		•			
Interesting for lesson	-					
Accident Report						
Accident descrip	tion					
Sartomer Czech filter of the read	n. During the clear ctor and the content ces caused a fire a	ning proces nt of the rea	s of the man	ufacturin to leak. V	g facilities, there was	l unit of the operator was an explosion in the ermic reaction of
Domino effects		atech events		Transbo	undary effects	Contractors
Release	<u>—</u>					_
Major Occurence	•					
fluid release to grou						
	····					
Initiating Events						
fluid release to grou	ınd		_			
Fire						
Major Occurence	S					
pool fire (burning po	ool of liquid, contained o	r uncontained)				
Initiating Events						
conflagration (a ger	neral engulfment fire)					
Explosion						
Major Occurence	<u> </u>					
-	s xplosion (usually exothe	rmic)				
Initiating Events		·				
9 = 101113						

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runaway reaction explosion (usually exothermic)

Site and installation

Site description

The object serves for the production of the liquid caoutchouc that is made during the process of polymerization in solution. The installation is part of an industrial park.

Installation/Unit description

The reactor with the filter is used for preparation of an initiator for the production of low-molecular caoutchouc. When the accident happened the regular cleaning of the reactor was in progress.

Process

Major occurrences	Equipment Type
chemical continuous reaction	
Initiating Events	Equipment Type

Substances

Substances Involved

Substances Classification

Substances detail

Subatanaa	CAS Number	Quantities (t.)		
Substance	CAS Nullibel	Involved Potentia	Potential	

Causes

The origin of uncontrollable chemical reaction was the result of the natural risk of using this particular technology.

Plant/Equipment

Causative Factor	Туре
other	

Other

maintenence

Consequences

The series of explosions in the compressive vessel of reactor. The consequent fire of leaking chemicals and of the equipment of the unit.

Cost

On site	Quantity	Quantity/Effect
material losses	0	

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response, cleanup, restoration costs	0	

Emergency Response

The reconstruction of the production unit of liquid caoutchouc will be carried out according to the actual safety management program. The n-butyl lithium material will be purchased. The amount of lithium present in the liquid caoutchouc technological unit will be minimized to the technologically necessary amount for the preparation of the catalyst. Cleaning of the filter will be performed outside the technological unit. The filter will be dismantled and sent to the contractor to be cleaned.

Emergency Response	Quantity	Quantity/Effect
On-site systems	0	
Off-site external services	0	
Sheltering		
Evacuation		
Other		

Remedial Measure	Quantity	Quantity/Effect
Decontamination		
Restoration	0	
Other		

Lessons Learned

Theme of the Lessons Learned

Causes - Plant/Equipment	
Causes - Organisational	

Lessons Learned

The employees will be demonstrably informed of the Report on the investigation of the accident.

Event Profile

Publication Date

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