



# Learning from Accidents

## S Beddegenoodts



# Learning from incidents workgroup

- Rather than counting incidents – by severity – the contributing companies decided to share learnings from real incidents in an anonymised format:

## Title

### Description of the incident/accident

On the 2nd December 2009 a ...

### Root causes

- ... and there was no hot work permit in place.
- ... had no site drawings available on site ...
- ...had not been definitively established.

Picture

### Corrective action

- ... is aware of the emergency procedures to be followed ...
- There were additional barriers that could have
- The knowledge and awareness ...

### Recommendations

- Raise the awareness of the risks ...  
<http://www.ukopa.co.uk/p...>
- Maintain ...

# Examples

Logistics  
Transport incident/accident report

February 2010

**Damage and failure of a propylene pipeline offsite**

**Description of the incident/accident**

On the 2<sup>nd</sup> December 2009 a pipeline used for the transportation of propylene from a jetty to a storage site, routed through privately owned land, was cut through by a 3<sup>rd</sup> party contractor using a petrol driven disc cutter (see photograph below). The work being undertaken was site clearance involving extensive excavations and the removal of redundant underground pipes and cables within a former tank farm site owned by a 3<sup>rd</sup> party. At the time of the incident the line contained propylene at approximately 9 bar pressure. There was a release of an amount of propylene but no one was hurt, nor was there any fire. The only damage was to the pipeline. The contractor recognised what had occurred and notified the operator and the pipeline was isolated immediately and made safe. A few months before the incident the contractor had inadvertently cut the water supply line and the 415 V power supply connections to the jetty on two separate occasions.

**Root causes**

- The contractor failed to manage the site properly.
- The contractor failed to manage the site properly.

**Corrective action**

- It is very important that all personnel are aware of the site and the work being undertaken. This should be followed in the future to prevent such incidents from occurring.
- There was a lack of communication between the contractor and the operator. This should be improved in the future.

were short wooden pegs painted yellow at the top with no signs attached. An exclusion zone around the pipeline had not been definitively established.

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Logistics  
Transport incident/accident report

DECEMBER 2008

**Container vacuum collapse**

**Description of incident/accident**

The driver climbed on top of the container to attach the unloading hose & vapor return line. The driver noticed that there was no gasket for the vapor return connection available so he climbed down from the container and took a gasket from the truck reserve gasket-bag which was stored in the truck cabin. The driver decided to use a round gasket, however without a necessary hole in the middle (see separate picture).



**Root cause**

According to the personnel files the driver was ISO9001-trained and certified and also instructed from the driver instructor in Spain. Previously the driver unloaded the same product at the same unloading site at least seven times. Furthermore were specifically informed about the danger of vacuum damage to the equipment. All drivers are ISO trained.

**Learning points**

Even trained people make mistakes. Fall proof hardware is necessary. Highlights from communication: Combating Complacency: Complacency is not the result of carelessness or a flaw in personality. The brain is designed to automate repetitive behavior. Repetitive tasks become automated to free up our attention for things that are new. When we "get-used-to" the situation we become less aware of the danger. Over time, the absence of consequences causes us to become more lax about our personal safety.

Case TC-LO-07



# Contribute ?



Logistics  
Transport incident/accident report

vacuum collapse

**CEFCIC** Code: TC-LC-07

**Describe the accident**

The driver... the container to attach... gasket for the... be climbed... gasket from... in... The driver... without a necessary hole in the middle (see separate picture).



**Root cause**

According to the personnel files the driver was... trained and certified and also instructed... from the driver instructor in Spain. Previously the driver unloaded the same product at the same... unloading site at least seven times. Furthermore... during the repeat driver training session all drivers were specifically informed about the danger of vacuum damage to the equipment. All drivers are EBS trained.

**Learning points**

Even trained people make mistakes. Fall proof hardware is necessary.  
Highlights from communication: Combating complacency:  
Complacency is not the result of carelessness or a flaw in personality.  
The brain is designed to automate repetitive behavior.  
Repetitive tasks become automated to free up our attention for things that are new.  
When we "get-used-to" the situation we become less aware of the danger. Over time, the absence of consequences causes us to become more lax about our personal safety.



[cefcic.be](http://www.cefcic.be)

**Unymised please.**

# SQAS database of accidents



**cefic**

UK France Germany Netherlands Spain Italy Hungary

**SQAS**  
Safety and Quality Assessment System

Home Download Planning Report Statistics **Accidents**

My contact information

Menu

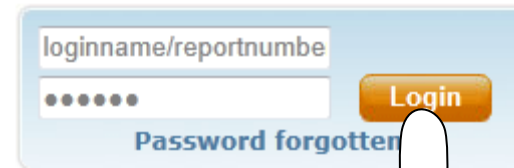
Download accident reports

### Download accident reports

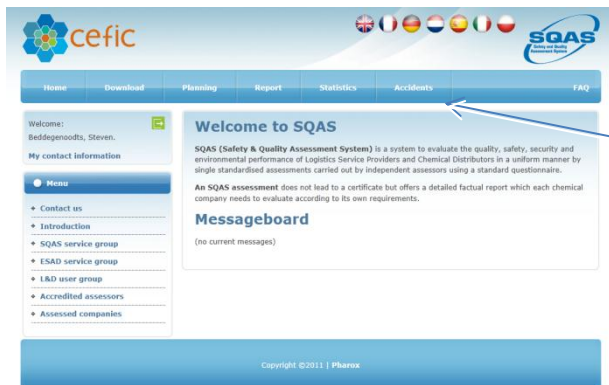
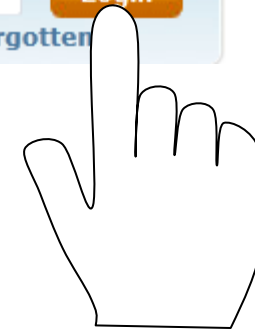
- ★ Tank(container) - Transport - (Un)loading
- ★ Tank(container) Transport - Transport
- ★ Tank(container) Transport - Other activities
- ★ Rail transport - (Un) loading
- ★ Rail Transport - Transport
- ★ Dry bulk Transport - (Un)loading
- ★ Packaging - (Un)loading
- ★ Packaging - Transport
- ★ Packaging - Other activities
- ★ Other activities
- ★ Total list of incidents

# Use?

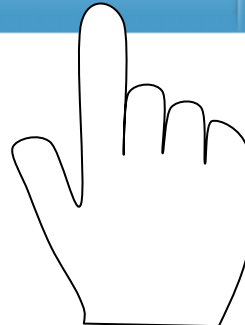
- When you are member of the SQAS user group or the L&D user group:
- Login to [www.sqas.org](http://www.sqas.org)



loginname/reportnumbe  
.....  
Login  
Password forgotten



The screenshot shows the SQAS website interface. At the top, there is a navigation menu with links for Home, Download, Planning, Report, Statistics, Accidents, and FAQ. Below the menu, the main content area is titled 'Welcome to SQAS' and includes a message about the system's purpose and a 'Messageboard' section. On the left side, there is a sidebar with 'My contact information' and a list of links including 'Contact us', 'Introduction', 'SQAS service group', 'ESAD service group', 'L&D user group', 'Accredited assessors', and 'Assessed companies'. The footer contains the copyright notice 'Copyright ©2011 | Pharnix'.



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- ★ Other activit
- ★ Total list of incid

## Logistics Transport incident/accident report



DECEMBER 2008

Code TT-TR-13

### Traffic accident with a plastic roadtank

#### Description of incident/accident

A bulk liquid carrier with +/- 24 tons of hydrochloric acid (UN1789 – HCl 35%), was involved alone in a traffic accident.

Due to the shock, the fibre-reinforced plastic (polyester) tank was separated from the cab and has been broken in two parts. Hydrochloric acid spilt on the road, producing a "toxic" cloud but fortunately, nobody was injured.

The cleaning up of the area took several hours and during this time, the traffic was blocked.

#### Root cause

Transport chartered by the customer : safety issue

Although the fibre-reinforced plastic tank is authorized by the ADR regulations, the impact resistance of this material seems to be not sufficient enough to maintain the integrity of the tank (ageing process for the plastics?).

No more filling of plastic tanks of more than 15 years old.

Transport chartered by the customer : safety issue

Implementation of the BBS program for the driver.



## reports

ort - (Un)loading

rt - Transport

fatigue

plastic roadtank

accident

fatigue

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entry road

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rt - Other activities

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# Cefic Learning from Accidents Database

**Number of reported incidents**

