

Technical Note	No 1
Version / Validity	V 1.0 / 03.09.2015
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Drafted by	UIP Topical Committee SAFETY

## Marking of wagons flushed with nitrogen



### Content

- 1) Objectives
- 2) Details for marking of wagons

### 1) Objectives

In the past, according regional sector agreements and non-existing legislative rules, the marking of wagons flushed with nitrogen was different. Different markings may result in fatalities (injured or killed people) when entering the tank.

In order to display the risk to everybody who is about to enter the tank as well as to give the operator clear information that a tank is flushed with nitrogen and ready for filling, a clear marking is necessary.

This UIP Technical Note is drafted by the UIP Topical Committee Safety and provides for a Europe-wide instruction on how to mark a tank wagon flushed with nitrogen.



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## 2) Details of Markings for wagons

### a. Label

A yellow tape with black letters containing the chemical symbol for nitrogen  $N_2$  shall be applied:



Versions with writing in CEN language (Nitrogen / Stickstoff/ Azote) are accepted as well, e.g.:



### b. Location

- manholes
- Product- and vapour return connections

### c. Way of application

The tape shall be applied by the nitrogen flushing company in a way, that ensures

- not to fall off
- Removal while using the connection



Example 1: Tank wagon with top loading / unloading



Example 2: bottom unloading incl. vapour return



Example 3: bottom loaded / unloaded gas car



Example 4: hinged manhole



Example 5: top screwed manhole



Example 6: screwed manhole gas