

## Ineos O&P requirements for customer collect (FCA) of Butadiene by tank containers

### INTRODUCTION

As a valued customer trading with Ineos Olefins & Polymers Europe on a collection (FCA) basis we want to inform you about the Ineos Olefins and Polymers requirements for customer collections of Butadiene in tank containers (hereafter named "TC's") from our site.

The purpose of this document is to detail Ineos Olefins & Polymers North requirements related to a collected order and make sure customer reads , understands and applies it .The customer will have full responsibility in ensuring full compliance to those requirements.

Ineos Olefins & Polymers Europe reserves the right to refuse to load any tc that does not comply with the requirements below.

UN 1010 Butadienes, Stabilized is a High consequence Dangerous Good according RID 1.10

### TECHNICAL REQUIREMENTS TANK CONTAINERS

The customer must ensure that the TC's offered, comply with all applicable national and international regulations.

The customer shall:

- Ensure compliance with the requirements for construction, equipment, tests, inspections and marking of the TC's according to ADR/RID/IMDG.
- Ensure that the maintenance of tanks and their equipment is carried out in such a way as to ensure that, under normal operating conditions, the TC satisfies the requirements of ADR/RID/IMDG until the next inspection.
- Ensure that all valves are operable and leak tight.
- Have a special check made when the safety of the tank of the tank or its equipment is liable to be impaired by a repair, an alteration or an accident.

Requirements tank atmosphere

- All TC's must arrive on site under Butadiene atmosphere
- Nitrogen shall not be present in the TC's
- In case of any deviation from the above, Ineos O&P must be informed in writing before arrival of the TC's on site.

Technical requirements of trucks and tank containers:

The truck and TC's must fully meet the requirements of the ADR/RID/IMDG regulations.

Apart from these, the following specific requirements apply:

- Pressure relief valves may NOT be fitted.
- Sunshields are not recommended. If they are fitted, a proper system must be in place for inspection and maintenance of the fittings.
- Construction material of the tanks: carbon steel, no internal coating
- All openings in the tank shell (except outlets and manlid) must be welded, not bolted
- Outlet connections located at the side of the TC:

**Option 1:**

Liquid phase: Flanges DN 80 Female

Gas phase: Flanges DN 50 Female

All flanges must be fitted with bolt

**Option 2 (preferred):**

Liquid phase: Dry disconnect Couplings DN 80 (NATO STANAG 3756) Male

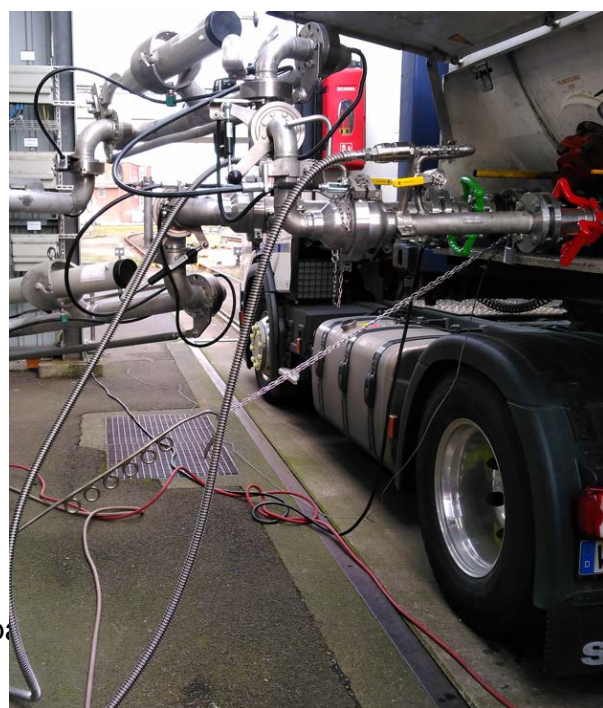
Gas phase: Dry disconnect Couplings DN 50 (NATO STANAG 3756) Male

Details: [Guidance document \(petrochemistry.eu\)](http://Guidance document (petrochemistry.eu))

The connection type, described in option 2 will be the standard for Butadiene transportation, for a transition period it will be important to communicate the setup before arrival on loading site.

- Bottom valves type: hydraulic or mechanical operated (**Important:** the emergency rope system consists of a stretch rope for direct connection to a rail hook)

Example picture (attached rail hook):



- **Electrical explosion protection**








Only devices with a ATEX category 2, temperature class T3 corresponding with Directive 2014/34 EU (ATEX), at least ATEX marking Ex II 2 G ex ib IIB T3 Gb. The responsible persons required to comply with the ex-protection are operators of the mobile equipment (e.g. containers, trailers, trucks). This applies to in particular for any special features listed in the operating instructions conditions with regard to explosive protection (letter “X” behind the ATEX certification number). Smartwatch, fitness tracker and similar devices are not permitted in loading area.

## IN CASE OF EMERGENCIES

- The product inside the TC’s is owned by the customer. In case of an off-site incident, the emergency services may request the product owner for product- or technical advice. This responsibility lies with the customer. Therefore the customer needs to provide Ineos O&P North with his Emergency telephone Number. Please send nr to SHE Department: [SHE.Logistics.North@ineos.com](mailto:SHE.Logistics.North@ineos.com)

## DETAILS FOR THE DRIVER:

### Life Saving Rules

-  • No consumption or being under the influence of alcohol or drugs on company property
-  • No smoking outside dedicated smoking areas
-  • No work on live equipment/machines to commence without authorisation
-  • Safety critical devices/interlocks must not be disabled or overridden without authorisation
-  • Persons working at height must use proper fall protection
-  • No entry to confined space without authorisation and gas test
-  • Lifting & hoisting – no unauthorised person to enter the defined danger zone where objects can fall

## Verladung

Safety Equipment for Truckdrivers  
Sicherheitsausrüstung für LKW Fahrer/innen



## LEITERNUTZUNG **VERBOTEN**



## DON'T USE **THIS LADDER**

### Personal Protective Equipment (PPE)

The driver shall possess and wear the PPE's as listed hereunder. The haulier shall ensure that proper, certified and inspected PPE's are used.

- Safety helmet (DIN EN 397)
- Safety glasses with side protection (DIN EN 166)
- Safety shoes (DIN EN ISO 20345) **Step-in rear ends are prohibited.**
- Work clothes Antistatic (DIN EN 1149-3) fire retardant (DIN EN ISO 14116) **Short sleeves or trousers are prohibited.**
- Working gloves, neoprene gloves or nitrile gloves (DIN EN 374)

#### Optional items:

- Fall arrest safety harness for bulk (un)loadings
- Hearing protection (DIN EN 352-x)
- Hi-vis(ibility) Jacket (EN ISO 14116/EN 1149-3/DIN EN 471-2)