# CHLORAMINE T TRIHYDRATE FOR SYNTHESIS

□□□□□□□□□

□□ (EU) 2020/878□ □□ □□□ REACH □□ (EC) 1907/2006□ □□
SDS Reference Number: 02699
□□ □□□□: 4/9/2014 □□ □□□□: 1/24/2025 □□ □□: 5/18/2016 □□: 1.0

## □□ 1: □□□□□ □□□ □□ □□

### 1.1. □□□□

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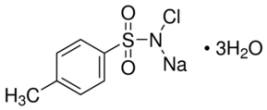
| □□ □□ | : | □□ |
| □□□ | : | CHLORAMINE T TRIHYDRATE FOR SYNTHESIS |
| EC □□ □□ | : | 616-010-00-9 |
| EC □□ | : | 204-854-7 |
| CAS □□ | : | 7080-50-4 |
| □□ □□ | : | 02699 |
| □□ □□ | : | Organic compound |
| □□□ | : | C7H7ClNO2SNa·3H2O |
| □□ □□ | : |  |
| □□□ | : | Tosylchloramide Sodium Trihydrate, N-chlorotosylamide sodium salt Trihydrate, N-Chloropara-toluenesulphonylamide Trihydrate, Sodium N-chloro-4-ethylbenzenesulphonomite Trihydrate |

### 1.2. □□□□ □□ □□□□ □□ □□ □□ □□

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| | | |
|---|---|---|
| □□□□/□□□□ □□ | : | Laboratory chemicals, Manufacture of substances |

### 1.3. □□□□□□□□□ □□□ □□

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107 Wode House Road, Jehangir Villa, Colaba
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info@lobachemie.com, www.lobachemie.com

### 1.4. □□□□□□

| | | |
|---|---|---|
| □□ □□ □□ | : | + 91 22 6663 6663 (9:00am - 6:00 pm) |

## □□ 2: □□□·□□□

### 2.1. □□□·□□□ □□

**Regulation (EC) No.1272/2008 [CLP]□ □□ □□**

| | |
|---|---|
| □□ □□ (□□), □□ 4 | H302 |
| □□ □□□/□□ □□□, □□ 1, □□□□ 1B | H314 |
| □□□ □□□, □□ 1 | H334 |

□□(H) □□ □ EUH □□ □□: 16□ □□.

**□□□□□, □□ □□ □ □□□□□□□□**

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### 2.2. □□□□□□□□ □□□ □□□□ □□

**□□ (EC) No. 1272/2008□ □□ □□ □□[CLP]**

□□ □□ □□□□(CLP) :

GHS05 GHS07 GHS08

□□□ (CLP) : □□

□□·□□ □□ (CLP) : H302 - □□□ □□□.
H314 - □□□ □□ □□□ □ □□□ □□□.
H334 - □□ □ □□□□□ □□, □□ □□ □□ □□□ □□□ □ □□.

□□ □□ □□(CLP) : P260 - □□·□·□□·□□□·□□·□□□□ □(□) □□□□ □□□.
P280 - □□□□, □□□, □□□, □□□□□ □(□) □□□□□.
P301+P312 - □□ □□: □□□□ □□□ □□ □□ □□ □□ □□ □(□) □□□□.
P303+P361+P353 - □□(□□ □□□□)□ □□□ □□□ □□ □□□ □□ □□□□. □□□ □□ □□□□ .
P304+P340 - □□□□ □□□ □□□ □□ □□□ □□□ □□□□ □□ □□□ □□□ □□□□.
P305+P351+P338 - □□ □□□□: □ □□ □□ □□□□ □□□□. □□□□ □□□ □□□ □□□□□. □□ □ □□□.

## 2.3. □□ □□

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

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## 3.1. □□□□

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| □□ | □□□□ | % |
|---|---|---|
| CHLORAMINE T TRIHYDRATE | CAS □□: 7080-50-4<br>EC □□: 204-854-7<br>EC □□ □□: 616-010-00-9 | 100 |

# □□ 4: □□□□□□□

## 4.1. □□□□ □□

□□ □□ □□ : Call a physician immediately.

□□□□ □ : □□□ □□□ □□ □□□ □□□ □□□□ □□ □□□ □□□ □□□□. □□□ □□□ □□ □□□ □□□ □□□ □ □□ □□□ □□□ □□□□. □□ □□□□/□□□ □□□ □□□□. If experiencing respiratory symptoms: Call a poison center or a doctor.

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First-aid measures for first aider : □□□□ □□□□ □□□ □□ □□ □□□ □□□□ □□□.

## 4.2. □□ □ □□□ □□ □□□ □□ □ □□

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□□ □□ □ □□/□□ : Burns.

□ □□ □ □□/□□ : Serious damage to eyes.

□□ □ □□/□□ : Swallowing a small quantity of this material will result in serious health hazard. □□□ □□□. Burns.

## 4.3. □□□□ □□ □ □□ □□ □□ □□ □□

Treat symptomatically.

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## 5.1. □□□ □□□

□□□ □□□ : Carbon dioxide. Dry powder. Foam. Water spray.

□□□□ □□□ : Do not use a heavy water stream.

### 5.2. □□□□□□□□ □□□ □□ □□□

□□ □□ : No fire hazard.

□□ □□ : No direct explosion hazard.

□□ □ □□□ □□□ □□ : Toxic fumes may be released.

### 5.3. □□□□ □□□□□ □ □□□□□

□□ □□ : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.

□□ □□ □ □□ : Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. □□□ □□□□□. Complete protective clothing.

## □□ 6: □□□□□□ □□□□□

### 6.1. □□□ □□□□□ □□ □□□ □□□□□ □ □□□

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□□ □□ : Wear recommended personal protective equipment.

□□ □□ : Ventilate spillage area. Evacuate unnecessary personnel. □□ □ □□□ □□□ □□□□. □□/□/□□/□ □□/□□/□□□□ □(□) □□□□ □□□.

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□□ □□ : Do not attempt to take action without suitable protective equipment. □□□ □□ □□□□ □□□□□. □ □ □□□ □□□ □□ 8: "□□□□ □ □□□□□"□ □□□□□.

□□ □□ : Ventilate area. Evacuate unnecessary personnel.

### 6.2. □□□ □□□□□ □□ □□□ □□□□□

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### 6.3. □□ □□ □□ □□

□□□ : Using a clean shovel, put the material in a dry container and cover without compressing it.

□□ □□ : Mechanically recover the product. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. On land, sweep or shovel into suitable containers.

□ □□ □□□□ : Dispose of materials or solid residues at an authorized site.

### 6.4. □□ □□ □□

For further information refer to section 13.

## □□ 7: □□ □ □□□□□

### 7.1. □□□□□□□

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□□□□□□ : Ensure good ventilation of the work station. Do not breathe vapours. □□ □ □□□ □□□ □□□□. Provide good ventilation in process area to prevent formation of vapour. □□/□/□□/□□□/□□/□□□ □ □(□) □□□□ □□□. □□ □□□□ □□□□□.

□□ □□ : □ □□□ □□□ □□□ □□□, □□□□ □□□□ □□□. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. □□ □□ □ □□□ □□□ □□□□□. Always wash hands after handling the product.

### 7.2. □□□□ □□□ □□□ □□□ □□ □□

□□□ □□ : Comply with applicable regulations.

□□ □□ : □□□ □ □□ □□ □□□□□. □□□ □□□ □□□□□. □□□□□ □□ □□□□□.

□□□ : Store always product in container of same material as original container.

### 7.3. □□ □□ □□

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## □□ 8: □□□□ □ □□□□□

### 8.1. □□ □□ □□

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### 8.2. □□□□

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Ensure good ventilation of the work station.

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□□ □□□:

Wear recommended personal protective equipment.

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□ □□:

Chemical goggles or safety glasses

**Skin protection**

□□ □□:

Wear a mask

□ □□:

Protective gloves

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□□□ □□:

Wear appropriate mask

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## □□ 9: □□□□□□ □□

### 9.1. □□□□ □□□□□□ □□□ □□ □□

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|---|---|---|
| □□□ □□ | : | □□ |
| □□ | : | White. |
| □□ | : | Crystalline powder. |
| □□□ | : | 281.69 g/mol |
| □□ | : | chlorine like. |
| □□ □□ | : | □□□□ |
| □□□ | : | 167 – 170 °C |
| □□□ | : | □□□□ |
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| □□□ | : | 192 °C |
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| | | |
|---|---|---|
| □□ □□ | : | □□□□ |
| pH | : | 8 – 11 at 25 °C |
| pH □□□ □□ | : | 5 % |
| □□(□□□) | : | □□□□ |
| □□□ | : | □: Soluble in water |
| Partition coefficient n-octanol/water (Log Kow) | : | □□□□ |
| □□□ | : | □□□□ |
| 50°C□□□ □□□ | : | □□□□ |
| □□ | : | 1.43 g/cm³ |
| □□ | : | □□□□ |
| 20°C□□□ □□ □□ □□ | : | □□□□ |
| Particle size | : | □□□□ |

### 9.2. □ □□ □□□□

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## □□ 10: □□□ □ □□□

### 10.1. □□□

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. □□□ □□□

Stable under normal conditions.

### 10.3. □□ □□□ □□□

No dangerous reactions known under normal conditions of use.

### 10.4. □□□ □ □□

Air contact. □□□□. Moisture.

### 10.5. □□□ □ □□

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### 10.6. □□□ □□□□ □□□□

Thermal decomposition generates : Corrosive vapours.

## □□ 11: □□□ □□ □□

### 11.1. □□ (EC) No 1272/2008□ □□□, □□□ □□□ □□ □□

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| □□ □□ (□□) | : | □□□□ □□ |
| □□ □□□ □□ □□□ | : | Causes severe skin burns.<br>pH: 8 – 11 at 25 °C |
| □□ □ □□ □□ □□□ | : | Assumed to cause serious eye damage<br>pH: 8 – 11 at 25 °C |
| □□□ □□ □□ □□□ | : | □□ □ □□□□□ □□, □□ □□ □□ □□□ □□□ □ □□. |
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| CHLORAMINE T TRIHYDRATE FOR SYNTHESIS (7080-50-4) | |
|---|---|
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### 11.2. □□ □□ □□

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## □□ 12: □□□ □□□ □□

### 12.1. □□

□□□ - □□ : Before neutralisation, the product may represent a danger to aquatic organisms.

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### 12.2. □□□ □ □□□

| CHLORAMINE T TRIHYDRATE FOR SYNTHESIS (7080-50-4) | |
|---|---|
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### 12.3. □□ □□□

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### 12.4. □□ □□□

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### 12.5. PBT □ vPvB □□ □□

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### 12.6. □□□ □□ □□

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### 12.7. □□ □□ □□

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## □□ 13: □□□ □□□□

### 13.1. □□□ □□□

□□ □□(□□□) : Disposal must be done according to official regulations.

□□□ □□□ : Dispose of contents/container in accordance with licensed collector's sorting instructions.

□□ □□ □□ □□ : Disposal must be done according to official regulations.

□□/□□ □□ □□□□ : □□, □□, □□ □/□□ □□ □□□ □□ □□□□ □□ □□ □□□ □□ □□ □ □□□□ □□□ □□□□□. Disposal must be done according to official regulations.

□□ □□ : Do not re-use empty containers.

## □□ 14: □□□ □□□ □□

ADR / IMDG / IATA / ADN / RID□ □□

### 14.1. UN □□ □□ ID □□

UN-□□(ADR) : UN 3263

UN-□□ (IMDG) : UN 3263

UN-□□(IATA) : UN 3263

UN-□□(ADN) : UN 3263

UN-□□(RID) : UN 3263

## 14.2. UN □□ □□□

□□ □□□ (ADR) : □□□ □□, □□□, □□□, □□ □□□ □□□ □□ □

□□ □□□ (IMDG) : CORROSIVE SOLID, BASIC, ORGANIC, N.O.S.

□□ □□□ (IATA) : Corrosive solid, basic, organic, n.o.s.

□□ □□□ (ADN) : □□□ □□, □□□, □□□, □□ □□□ □□□ □□ □

□□ □□□ (RID) : □□□ □□, □□□, □□□, □□ □□□ □□□ □□ □

□□ □□ □□ (ADR) (ADR) : UN 3263 □□□ □□, □□□, □□□, □□ □□□ □□□ □□ □ (CHLORAMINE T TRIHYDRATE), 8, III, (E)

□□ □□ □□ (IMDG) : UN 3263 CORROSIVE SOLID, BASIC, ORGANIC, N.O.S., 8, III

□□ □□ □□ (IATA) : UN 3263 Corrosive solid, basic, organic, n.o.s. (CHLORAMINE T TRIHYDRATE), 8, III

□□ □□ □□ (ADN) : UN 3263 □□□ □□, □□□, □□□, □□ □□□ □□□ □□ □, 8, III

□□ □□ □□ (RID) : UN 3263 □□□ □□, □□□, □□□, □□ □□□ □□□ □□ □, 8, III

## 14.3. □□□□□ □□□ □□

### ADR

□□□□□ □□□ □□ (ADR) : 8

□□ □□ (ADR) : 8

:

### IMDG

□□□□□ □□□ □□ (IMDG) : 8

□□ □□ (IMDG) : 8

:

### IATA

□□□□□ □□□ □□ (IATA) : 8

□□ □□ (IATA) : 8

:

### ADN

□□□□□ □□□ □□ (ADN) : 8

□□ □□ (ADN) : 8

:

### RID

□□□□□ □□□ □□ (RID) : 8

□□ □□ (RID) : 8

:

## 14.4. □□□□

□□ □□ (ADR) : III

| | | |
|---|---|---|
| □□ □□(IMDG) | : | III |
| □□ □□ (IATA) | : | III |
| □□ □□(ADN) | : | III |
| □□ □□(RID) | : | III |

## 14.5. □□ □□□

| | | |
|---|---|---|
| □□□ □□ | : | □□□ |
| □□□□□□ | : | □□□ |
| EmS-No. (□□) | : | F-A |
| EmS-No. (□□) | : | S-B |
| □ □□ □□□□ | : | □□ □□ □□ □□ |

## 14.6. □□□□ □□ □□ □□□□

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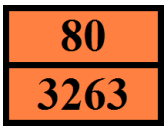
| | | |
|---|---|---|
| □□ □□(ADR) | : | C8 |
| □□ □□(ADR) | : | 274 |
| □□□(ADR) | : | 5kg |
| □□□(ADR) | : | E1 |
| □□ □□(ADR) | : | P002, IBC08, LP02, R001 |
| □□ □□ (ADR) | : | B3 |
| □□ □□ □□ □□ □□(ADR) | : | MP10 |
| □□□ □□ □ □□ □□□□ □□ (ADR) | : | T1 |
| □□□ □□ □ □□ □□□□ □□ □□ (ADR) | : | TP33 |
| □□ □□(ADR) | : | SGAV, L4BN |
| □□ □□□ □□ | : | AT |
| □□ □□(ADR) | : | 3 |
| □□ □□ □□ □□ - □□ □□(ADR) | : | VC1, VC2, AP7 |
| □□ □□ □□(Kemler □□) | : | 80 |
| Orange plates (□□□□□□) | : |   |
| □□ □□ □□ (ADR) | : | E |
| EAC □□ | : | 2X |

□□ □□

| | | |
|---|---|---|
| □□ □□ (IMDG) | : | 223, 274 |
| □□ □□(IMDG) | : | 5 kg |
| □□□(IMDG) | : | E1 |
| □□ □□ (IMDG) | : | P002, LP02 |
| IBC □□ □□(IMDG) | : | IBC08 |
| IBC □□ □□ (IMDG) | : | B3 |
| □□ □□ (IMDG) | : | T1 |
| □□ □□ □□ (IMDG) | : | TP33 |
| □□ □□ (IMDG) | : | A |
| □□(IMDG) | : | SGG18, SG35 |
| □□□ □□□□ (IMDG) | : | Reacts violently with acids. Causes burns to skin, eyes and mucous membranes. |
| MFAG-□□ | : | 154 |

□□ □□

| | | |
|---|---|---|
| PCA □□ □□(IATA) | : | E1 |
| PCA □□ □□(IATA) | : | Y845 |
| PCA □□ □□ □□ □□□(IATA) | : | 5kg |
| PCA □□ □□(IATA) | : | 860 |
| PCA □□ □□□(IATA) | : | 25kg |
| CAO □□ □□(IATA) | : | 864 |
| CAO □□ □□□(IATA) | : | 100kg |
| □□ □□(IATA) | : | A3, A803 |
| ERG □□(IATA) | : | 8L |

□□ □□ □□

| | | |
|---|---|---|
| □□ □□(ADN) | : | C8 |

| | | |
|---|---|---|
| □□ □□(ADN) | : | 274 |
| □□□(ADN) | : | 5 kg |
| □□□(ADN) | : | E1 |
| □□ □□(ADN) | : | PP, EP |
| □□ □□/□□□ □□(ADN) | : | 0 |

□□ □□

| | | |
|---|---|---|
| □□ □□(RID) | : | C8 |
| □□ □□(RID) | : | 274 |
| □□ □□(RID) | : | 5kg |
| □□□(RID) | : | E1 |
| □□ □□ (RID) | : | P002, IBC08, LP02, R001 |
| □□ □□ (RID) | : | B3 |
| □□ □□ □□ □□ □□(RID) | : | MP10 |
| □□□ □□ □ □□ □□□□ □□ (RID) | : | T1 |
| □□□ □□ □ □□ □□□□ □□ □□ (RID) | : | TP33 |
| RID □□□ □□ □□(RID) | : | SGAV, L4BN |
| □□ □□(RID) | : | 3 |
| □□ □□ □□ □□ - □□ □□(RID) | : | VC1, VC2, AP7 |
| □□ □□□ | : | CE11 |
| □□□ □□ □□ (RID) | : | 80 |

### 14.7. □□□□□□□(IMO)□ □□ □□ □□ □□

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## □□ 15: □□ □□□□

### 15.1. □□, □□ □ □□□ □□□□ □□□□ □□ □□□□ □□ □□ □□/□□

**EU □□**

**REACH □□□ XVII (□□ □□)**

REACH □□□ XVII□ □□□□ □□

**REACH □□□ XIV (□□ □□)**

REACH □□□ XIV (□□ □□)□ □□□□ □□

**REACH □□ □□ □□ (SVHC)**

REACH □□ □□ □□□ □□□ □□□ □□□□ □□

**PIC □□ (□□□□□□)**

PIC □□□ □□□□ □□ (□□ EU 649/2012)

**POP □□ (□□□ □□ □□□□)**

POP □□□ □□□□ □□ (□□ EU 2019/1021)

**Ozone Regulation (2024/590)**

Not listed on the Ozone Depletion list (Regulation EU 2024/590)

**□□□□ □□(428/2009)**

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

**□□ □□□□ □□ (2019/1148)**

□□□ □□□□ □□(□□ □□□□□ □□ □ □□□ □□ □□ EU 2019/1148)□ □□□ □□ □□□□ □□

**□□ □□□□ □□ (273/2004)**

□□ □□□□ □□□ □□□ □□□ □□□□ □□(□□ □ □□□□ □□□ □□ □□□ □□□□ □□ □□□ □□ □ □□□ □□ □□ EC 273/2004)

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|---|---|
| □□ | □□ |
| RG 66 | |

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VOC ordinance (ChemVOCFarbV) :

WGK : WGK 3, □□ □□ □□□ (Classification according to AwSV).

□□ □□ □□(12. BImSchV) : □□ □□ □□(12. BImSchV)□ □□ □□ □□

□□□□

SZW-lijst van kankerverwekkende stoffen : □□□ □□□□ □□□□□.

SZW-lijst van mutagene stoffen : □□□ □□□□ □□□□□.

SZW-lijst van reprotoxische stoffen – Borstvoeding : □□□ □□□□ □□□□□.

SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : □□□ □□□□ □□□□□.

SZW-lijst van reprotoxische stoffen – Ontwikkeling : □□□ □□□□ □□□□□.

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## 15.2. □□ □□ □□□ □□

No chemical safety assessment has been carried out

## □□ 16: □ □□ □□□□

| □□ □ □□□□: | |
|---|---|
| ACGIH | American Conference of Government Industrial Hygienists |
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration factor |
| BLV | □□ □□ □ |
| BOD | Biochemical oxygen demand (BOD) |
| CAS □□ | □□□□ □□ □□ □□(CAS) |
| CLP | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 |
| COD | □□□ □□ □□□ |
| CSA | □□ □□ □□□ □□ |
| DMEL | Derived Minimal Effect level |
| DNEL | □□ □□□ □□ |
| EC □□ | □□ □□□ □□ |
| EC50 | Median effective concentration |
| ED | □□□ □□□□ |
| EN | □□ □□ |
| EWC | European waste catalogue |
| IARC | International Agency for Research on Cancer |

| □□ □ □□□□: | |
|---|---|
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| LC50 | Median lethal concentration |
| LD50 | Median lethal dose |
| LOAEL | Lowest Observed Adverse Effect Level |
| Log Kow | Partition coefficient n-octanol/water (Log Kow) |
| Log Pow | Partition coefficient n-octanol/water (Log Pow) |
| MAK | maximum workplace concentration |
| NOAEC | No-Observed Adverse Effect Concentration |
| NOAEL | No-Observed Adverse Effect Level |
| NOEC | No-Observed Effect Concentration |
| N.O.S. | Not Otherwise Specified |
| OECD | Organisation for Economic Co-operation and Development |
| OEL | □□□ □□ □□ |
| OSHA | Occupational Safety & Health Administration |
| PBT | Persistent Bioaccumulative Toxic |
| PNEC | □□ □□□ □□ |
| PPE | □□ □□□ |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS | □□□□□□□□ |
| STP | Sewage treatment plant |
| TF | □□□ □□ |
| ThOD | Theoretical oxygen demand (ThOD) |
| TLM | Median Tolerance Limit |
| TWA | Time Weighted Average |
| COV | Volatile Organic Compounds |
| vPvB | Very Persistent and Very Bioaccumulative |
| UFI | □□ □□ □□□ |

| □H□ □ EUH□ □□: | |
|---|---|
| □□ □□ 4 (□□) | □□ □□ (□□), □□ 4 |
| □□ □□□ 1B | □□ □□□/□□ □□□, □□ 1, □□□□ 1B |
| □□□ □□□ 1 | □□□ □□□, □□ 1 |
| H302 | □□□ □□□. |
| H314 | □□□ □□ □□□ □ □□□ □□□. |
| H334 | □□ □ □□□□□ □□, □□ □□ □□ □□□ □□□ □ □□. |

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