

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 5 Jan 2021

Print date: 5 Jan 2021

Version: 1



## PUR-O-STOP HF-L A-Komponente

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Trade name/designation:

**PUR-O-STOP HF-L A-Komponente**

UFI:

2CQP-V2V9-PY4G-X29M

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

No data available

#### 1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

**TPH Bausysteme GmbH**

Nordportbogen 8  
22848 Norderstedt  
Germany

**Telephone:** +49 40 52 90 66 78-0

**Telefax:** +49 40 52 90 66 78-78

**E-mail:** info@tph-bausysteme.com

**Website:** www.tph-bausysteme.com

**E-mail (competent person):** sdb-info@tph-bausysteme.com

#### 1.4. Emergency telephone number

24h: GIZ-Nord +49 551 / 19240

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]:

| Hazard classes and hazard categories                | Hazard statements                    | Classification procedure |
|-----------------------------------------------------|--------------------------------------|--------------------------|
| Serious eye damage/eye irritation<br>(Eye Irrit. 2) | H319: Causes serious eye irritation. | Calculation method.      |

#### Additional information:

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

#### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



**GHS07**

Exclamation mark

**Signal word:** Warning

**Hazard components for labelling:**

1,4-diazabicyclooctane; 1,2-Ethanediol

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### hazard statements for health hazards

H319 Causes serious eye irritation.

### Supplemental hazard information: -

#### Precautionary statements Prevention

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

#### Precautionary statements Response

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

### 2.3. Other hazards

No data available

## SECTION 3: Composition / information on ingredients

### 3.2. Mixtures

#### Hazardous ingredients / Hazardous impurities / Stabilisers:

| product identifiers                                                                                         | Substance name<br>Classification according to Regulation (EC) No 1272/2008<br>[CLP]                                         | Concentration          |
|-------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|------------------------|
| CAS No.: 107-21-1<br>EC No.: 203-473-3<br>Index No.:<br>603-027-00-1<br>REACH No.:<br>01-2119456816-28-XXXX | <b>1,2-Ethanediol</b><br>Acute Tox. 4<br><b>Warning</b> H302                                                                | 2.5 - < 10<br>weight-% |
| CAS No.: 280-57-9<br>EC No.: 205-999-9<br>REACH No.:<br>01-2119980944-22-XXXX                               | <b>1,4-diazabicyclooctane</b><br>Acute Tox. 4, Eye Dam. 1, Flam. Sol. 1, Skin Irrit. 2<br><b>Danger</b> H228-H302-H315-H318 | ≤ 2.5<br>weight-%      |

Full text of H- and EUH-phrases: see section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended.

#### Following inhalation:

Provide fresh air. In case of respiratory tract irritation, consult a physician.

#### In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. If skin irritation or rash occurs: Get medical advice/attention.

#### After eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

#### Following ingestion:

Rinse mouth. Let water be drunk in little sips (dilution effect). Get medical advice/attention if you feel unwell.

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### Self-protection of the first aider:

Use personal protection equipment.

### 4.2. Most important symptoms and effects, both acute and delayed

Serious eye damage/eye irritation

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media:

Extinguishing powder Dry extinguishing powder alcohol resistant foam

#### Unsuitable extinguishing media:

Full water jet

### 5.2. Special hazards arising from the substance or mixture

#### Hazardous combustion products:

In case of fire: Gases/vapours, toxic

### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

### 5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

##### Personal precautions:

Remove persons to safety.

##### Protective equipment:

Wear protective gloves/protective clothing/eye protection/face protection.

#### 6.1.2. For emergency responders

##### Personal protection equipment:

Personal protection equipment: see section 8

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

### 6.3. Methods and material for containment and cleaning up

#### For containment:

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

### 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

### 6.5. Additional information

Use appropriate container to avoid environmental contamination.

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

##### Protective measures

##### Advices on safe handling:

Wear personal protection equipment (refer to section 8).

##### Advices on general occupational hygiene

When using do not eat, drink or smoke. Avoid contact with eyes and skin.

#### 7.2. Conditions for safe storage, including any incompatibilities

##### Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place.

#### 7.3. Specific end use(s)

No data available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### 8.1.1. Occupational exposure limit values

| Limit value type (country of origin) | Substance name                                          | ① Long-term occupational exposure limit value<br>② short-term occupational exposure limit value<br>③ Instantaneous value<br>④ Monitoring and observation processes<br>⑤ Remark |
|--------------------------------------|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CH                                   | 1,2-Ethandiol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | ① 10 ppm (26 mg/m <sup>3</sup> )<br>② 20 ppm (52 mg/m <sup>3</sup> )<br>⑤ (kann über die Haut aufgenommen werden)                                                              |
| BE                                   | 1,2-Ethandiol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | ① 20 ppm (52 mg/m <sup>3</sup> )<br>③ 40 ppm (104 mg/m <sup>3</sup> )<br>⑤ (Aérosol, peut être absorbé par la peau)                                                            |
| CZ                                   | 1,2-Ethandiol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | ① 19.4 ppm (50 mg/m <sup>3</sup> )<br>② 38.8 ppm (100 mg/m <sup>3</sup> )<br>⑤ (může pronikat pokožkou)                                                                        |
| PL                                   | 1,2-Ethandiol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | ① 15 mg/m <sup>3</sup><br>② 50 mg/m <sup>3</sup><br>⑤ (może przenikać przez skórę do organizmu)                                                                                |
| NO                                   | 1,2-Ethandiol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | ① 20 ppm (52 mg/m <sup>3</sup> )<br>② 40 ppm (104 mg/m <sup>3</sup> )<br>⑤ (kan absorberes gjennom huden)                                                                      |
| TRGS 900 (DE)                        | 1,2-Ethandiol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | ① 10 ppm (26 mg/m <sup>3</sup> )<br>② 20 ppm (52 mg/m <sup>3</sup> )<br>⑤ (Aerosol und Dampf, kann über die Haut aufgenommen werden)                                           |
| IE                                   | 1,2-Ethandiol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | ① 10 mg/m <sup>3</sup><br>⑤ (may be absorbed through the skin)                                                                                                                 |
| IE                                   | 1,2-Ethandiol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | ① 20 ppm (52 mg/m <sup>3</sup> )<br>② 40 ppm (104 mg/m <sup>3</sup> )<br>⑤ (vapour, may be absorbed through the skin)                                                          |
| MY                                   | 1,2-Ethandiol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | ③ 39.4 ppm (100 mg/m <sup>3</sup> )                                                                                                                                            |

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|--------------------------------------|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| HTP (FI)                             | 1,2-Ethandiol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | ① 20 ppm (50 mg/m <sup>3</sup> )<br>② 40 ppm (100 mg/m <sup>3</sup> )<br>⑤ (kan absorberas genom huden)                                                                                   |
| LT                                   | 1,2-Ethandiol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | ① 10 ppm (25 mg/m <sup>3</sup> )<br>② 20 ppm (50 mg/m <sup>3</sup> )<br>⑤ (garų ir Aerosolis) (tikėtinas įsisavinimas per odą) Šis RD tai komas bendrai garų ir aerosolio koncentracijai. |
| SE                                   | 1,2-Ethandiol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | ① 10 ppm (25 mg/m <sup>3</sup> )<br>② 40 ppm (104 mg/m <sup>3</sup> )<br>⑤ (kan absorberas genom huden)                                                                                   |
| NPEL (SK)                            | 1,2-Ethandiol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | ① 20 ppm (52 mg/m <sup>3</sup> )<br>② 40 ppm (104 mg/m <sup>3</sup> )<br>⑤ (rátajte so vstrebávaním cez pokožku)                                                                          |
| MAK (AT)                             | 1,2-Ethandiol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | ① 10 ppm (26 mg/m <sup>3</sup> )<br>⑤ (kann über die Haut aufgenommen werden)                                                                                                             |
| DK                                   | 1,2-Ethandiol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | ① 10 mg/m <sup>3</sup><br>② 20 mg/m <sup>3</sup>                                                                                                                                          |
| DK                                   | 1,2-Ethandiol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | ① 10 ppm (26 mg/m <sup>3</sup> )<br>② 20 ppm (52 mg/m <sup>3</sup> )<br>⑤ (kan optages gennem huden)                                                                                      |
| MAK (AT)                             | 1,2-Ethandiol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | ② 20 ppm (52 mg/m <sup>3</sup> )<br>⑤ (max. 8x5 min./Schicht, Momentanwert, kann über die Haut aufgenommen werden)                                                                        |
| BG                                   | 1,2-Ethandiol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | ① 20 ppm (52 mg/m <sup>3</sup> )<br>② 40 ppm (104 mg/m <sup>3</sup> )<br>⑤ (трябва да се очаква абсорбиране през кожата)                                                                  |
| HR                                   | 1,2-Ethandiol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | ① 20 ppm (52 mg/m <sup>3</sup> )<br>② 40 ppm (104 mg/m <sup>3</sup> )<br>⑤ (mora se uzeti u obzir prodiranje kroz kožu)                                                                   |
| ES                                   | 1,2-Ethandiol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | ① 20 ppm (52 mg/m <sup>3</sup> )<br>② 40 ppm (104 mg/m <sup>3</sup> )<br>⑤ (puede ser absorbido a través dérmica)                                                                         |
| RO                                   | 1,2-Ethandiol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | ① 20 ppm (52 mg/m <sup>3</sup> )<br>② 40 ppm (104 mg/m <sup>3</sup> )<br>⑤ (e de așteptat asimilarea prin piele)                                                                          |
| EE                                   | 1,2-Ethandiol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | ① 20 ppm (52 mg/m <sup>3</sup> )<br>② 40 ppm (104 mg/m <sup>3</sup> )<br>⑤ (naha kaudu kergesti absorbeeruvad ained, aur ja Aerosool)                                                     |
| LV                                   | 1,2-Ethandiol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | ① 20 ppm (52 mg/m <sup>3</sup> )<br>② 40 ppm (104 mg/m <sup>3</sup> )<br>⑤ (var absorbet caur adu)                                                                                        |
| Alberta (CA)                         | 1,2-Ethandiol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | ③ 100 mg/m <sup>3</sup>                                                                                                                                                                   |

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|--------------------------------------|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BC (CA)                              | 1,2-Ethanediol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | ③ 100 mg/m <sup>3</sup><br>⑤ (Aerosol)                                                                                                                                         |
| BC (CA)                              | 1,2-Ethanediol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | ① 10 mg/m <sup>3</sup><br>② 20 mg/m <sup>3</sup><br>⑤ (particles)                                                                                                              |
| BC (CA)                              | 1,2-Ethanediol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | ③ 50 mg/m <sup>3</sup><br>⑤ (vapor)                                                                                                                                            |
| IOELV (EU)                           | 1,2-Ethanediol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | ① 20 ppm (52 mg/m <sup>3</sup> )<br>② 40 ppm (104 mg/m <sup>3</sup> )<br>⑤ (may be absorbed through the skin)                                                                  |
| VRI (FR)                             | 1,2-Ethanediol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | ① 20 ppm (52 mg/m <sup>3</sup> )<br>② 40 ppm (104 mg/m <sup>3</sup> )<br>⑤ (peut être absorbé par la peau)                                                                     |
| WEL (GB)                             | 1,2-Ethanediol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | ① 20 ppm (52 mg/m <sup>3</sup> )<br>② 40 ppm (104 mg/m <sup>3</sup> )<br>⑤ (vapour, may be absorbed through the skin)                                                          |
| SI                                   | 1,2-Ethanediol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | ① 20 ppm (52 mg/m <sup>3</sup> )<br>② 40 ppm (104 mg/m <sup>3</sup> )<br>⑤ (računati je treba z možnostjo prodiranja skozi kožo)                                               |
| TW                                   | 1,2-Ethanediol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | ① 10 mg/m <sup>3</sup><br>⑤ (蒸汽)                                                                                                                                               |
| TW                                   | 1,2-Ethanediol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | ③ 50 ppm (127 mg/m <sup>3</sup> )<br>⑤ (霧)                                                                                                                                     |
| WEL (GB)                             | 1,2-Ethanediol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | ① 10 mg/m <sup>3</sup><br>⑤ (may be absorbed through the skin)                                                                                                                 |
| KR                                   | 1,2-Ethanediol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | ③ 40 ppm (100 mg/m <sup>3</sup> )<br>⑤ (증기 와(과) 연무)                                                                                                                            |
| IS                                   | 1,2-Ethanediol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | ① 10 ppm (26 mg/m <sup>3</sup> )<br>② 40 ppm (104 mg/m <sup>3</sup> )<br>⑤ (efnið getur auðveldlega borist inn í líkamann gegnum húð)                                          |
| IS                                   | 1,2-Ethanediol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | ① 10 ppm (26 mg/m <sup>3</sup> )<br>⑤ (úðaefni, efnið getur auðveldlega borist inn í líkamann gegnum húð)                                                                      |
| CN                                   | 1,2-Ethanediol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | ① 20 mg/m <sup>3</sup><br>② 40 mg/m <sup>3</sup>                                                                                                                               |
| HU                                   | 1,2-Ethanediol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | ① 52 mg/m <sup>3</sup><br>② 104 mg/m <sup>3</sup><br>⑤ (felvehető a bőrön keresztül)                                                                                           |
| RU                                   | 1,2-Ethanediol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | ① 5 mg/m <sup>3</sup><br>③ 10 mg/m <sup>3</sup>                                                                                                                                |

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|--------------------------------------|------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| GR                                   | 1,2-Ethandiol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3          | ① 50 ppm (125 mg/m <sup>3</sup> )<br>② 50 ppm (125 mg/m <sup>3</sup> )                                                                                                         |
| NL                                   | 1,2-Ethandiol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3          | ① 52 mg/m <sup>3</sup><br>② 104 mg/m <sup>3</sup><br>⑤ (damp)                                                                                                                  |
| ACGIH (US)                           | 1,2-Ethandiol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3          | ② 10 mg/m <sup>3</sup><br>⑤ (inhalable fraction Aerosol)                                                                                                                       |
| NL                                   | 1,2-Ethandiol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3          | ① 10 mg/m <sup>3</sup><br>⑤ (deeltjes)                                                                                                                                         |
| TR                                   | 1,2-Ethandiol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3          | ① 20 ppm (52 mg/m <sup>3</sup> )<br>② 40 ppm (104 mg/m <sup>3</sup> )<br>⑤ (cilt yoluyla alınabilir)                                                                           |
| ACGIH (US)                           | 1,2-Ethandiol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3          | ① 25 ppm<br>② 50 ppm<br>⑤ (vapor)                                                                                                                                              |
| Québec (CA)                          | 1,2-Ethandiol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3          | ③ 50 ppm (127 mg/m <sup>3</sup> )                                                                                                                                              |
| Ontario (CA)                         | 1,4-diazabicyclooctane<br>CAS No.: 280-57-9<br>EC No.: 205-999-9 | ① 1 ppm (4.6 mg/m <sup>3</sup> )<br>⑤ (may be absorbed through the skin)                                                                                                       |
| RU                                   | 1,4-diazabicyclooctane<br>CAS No.: 280-57-9<br>EC No.: 205-999-9 | ③ 1 mg/m <sup>3</sup>                                                                                                                                                          |
| TRGS 900 (DE)                        | Hydrocarbons, TRGS 900                                           | ① 0 mg/m <sup>3</sup><br>⑤ Mass fraction (wt %): 0                                                                                                                             |

### 8.1.2. Biological limit values

No data available

### 8.1.3. DNEL-/PNEC-values

| Substance name                                                   | DNEL value            | ① DNEL type<br>② Exposure route                             |
|------------------------------------------------------------------|-----------------------|-------------------------------------------------------------|
| 1,2-Ethandiol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3          | 35 mg/m <sup>3</sup>  | ① DNEL worker<br>② Long-term - inhalation, local effects    |
| 1,2-Ethandiol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3          | 7 mg/m <sup>3</sup>   | ① DNEL Consumer<br>② Long-term - inhalation, local effects  |
| 1,2-Ethandiol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3          | 106 mg/kg             | ① DNEL worker<br>② Long-term - dermal, systemic effects     |
| 1,2-Ethandiol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3          | 53 mg/kg              | ① DNEL Consumer<br>② Long-term - dermal, systemic effects   |
| 1,4-diazabicyclooctane<br>CAS No.: 280-57-9<br>EC No.: 205-999-9 | 1.2 mg/m <sup>3</sup> | ① DNEL worker<br>② Long-term - inhalation, systemic effects |



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| Substance name                                                   | DNEL value            | ① DNEL type<br>② Exposure route                         |
|------------------------------------------------------------------|-----------------------|---------------------------------------------------------|
| 1,4-diazabicyclooctane<br>CAS No.: 280-57-9<br>EC No.: 205-999-9 | 3.6 mg/m <sup>3</sup> | ① DNEL worker<br>② Acute - inhalation, systemic effects |

| Substance name                                          | PNEC Value          | ① PNEC type                          |
|---------------------------------------------------------|---------------------|--------------------------------------|
| 1,2-Ethandiol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | 10 mg/l             | ① PNEC aquatic, freshwater           |
| 1,2-Ethandiol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | 1 mg/l              | ① PNEC aquatic, marine water         |
| 1,2-Ethandiol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | 199.5 mg/l          | ① PNEC sewage treatment plant        |
| 1,2-Ethandiol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | 37 mg/kg<br>bw/day  | ① PNEC sediment, freshwater          |
| 1,2-Ethandiol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | 3.7 mg/kg<br>bw/day | ① PNEC sediment, marine water        |
| 1,2-Ethandiol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | 1.53 mg/kg          | ① PNEC soil                          |
| 1,2-Ethandiol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | 10 mg/l             | ① PNEC aquatic, intermittent release |

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

No data available

#### 8.2.2. Personal protection equipment

##### Eye/face protection:

Eye glasses with side protection DIN EN 166

##### Skin protection:

Tested protective gloves must be worn EN ISO 374 Suitable material: Breakthrough time: min  
In the case of wanting to use the gloves again, clean them before taking off and air them well.  
Breakthrough times and swelling properties of the material must be taken into consideration.

##### Respiratory protection:

Filtering device with filter or ventilator filtering device of type: A A

#### 8.2.3. Environmental exposure controls

No data available

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Appearance

Physical state: Liquid

Colour: colourless

Odour: not determined

#### Safety relevant basis data

| parameter      |                | at °C | Method | Remark |
|----------------|----------------|-------|--------|--------|
| pH             | not determined |       |        |        |
| Melting point  | not determined |       |        |        |
| Freezing point | not determined |       |        |        |



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| parameter                                    |                        | at °C | Method | Remark |
|----------------------------------------------|------------------------|-------|--------|--------|
| Initial boiling point and boiling range      | not determined         |       |        |        |
| Decomposition temperature                    | not determined         |       |        |        |
| Flash point                                  | 201 °C                 |       |        |        |
| Evaporation rate                             | not determined         |       |        |        |
| Auto-ignition temperature                    | not determined         |       |        |        |
| Upper/lower flammability or explosive limits | not determined         |       |        |        |
| Vapour pressure                              | not determined         |       |        |        |
| Vapour density                               | not determined         |       |        |        |
| Density                                      | 1.05 g/cm <sup>3</sup> | 21 °C |        |        |
| Bulk density                                 | not determined         |       |        |        |
| Water solubility                             | not determined         |       |        |        |
| Partition coefficient: n-octanol/water       | not determined         |       |        |        |
| Dynamic viscosity                            | 260 mPa*s              | 25 °C |        |        |
| Kinematic viscosity                          | not determined         |       |        |        |

### 9.2. Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No data available

### 10.2. Chemical stability

No data available

### 10.3. Possibility of hazardous reactions

No data available

### 10.4. Conditions to avoid

No data available

### 10.5. Incompatible materials

No data available

### 10.6. Hazardous decomposition products

No data available

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

| Substance name                                                   | Toxicological information                                                                                                                                                                        |
|------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1,2-Ethanediol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3         | <b>LD<sub>50</sub> oral:</b><br>7,712 mg/kg (Rat)<br><b>LD<sub>50</sub> dermal:</b><br>>3,500 mg/kg (Mouse)<br><b>LC<sub>50</sub> Acute inhalation toxicity (vapour):</b><br>>2.5 mg/l 6 h (Rat) |
| 1,4-diazabicyclooctane<br>CAS No.: 280-57-9<br>EC No.: 205-999-9 | <b>LD<sub>50</sub> oral:</b><br>50 mg/kg (Rat)<br><b>LD<sub>50</sub> dermal:</b><br>>2,000 mg/kg (Rabbit)                                                                                        |

### Acute oral toxicity:

Based on available data, the classification criteria are not met.

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### Acute dermal toxicity:

Based on available data, the classification criteria are not met.

### Acute inhalation toxicity:

Based on available data, the classification criteria are not met.

### Skin corrosion/irritation:

Based on available data, the classification criteria are not met.

### Serious eye damage/irritation:

Causes serious eye irritation.

### Respiratory or skin sensitisation:

Based on available data, the classification criteria are not met.

### Germ cell mutagenicity:

Based on available data, the classification criteria are not met.

### Carcinogenicity:

Based on available data, the classification criteria are not met.

### Reproductive toxicity:

Based on available data, the classification criteria are not met.

### STOT-single exposure:

Based on available data, the classification criteria are not met.

### STOT-repeated exposure:

Based on available data, the classification criteria are not met.

### Aspiration hazard:

Based on available data, the classification criteria are not met.

### Additional information:

No data available

## SECTION 12: Ecological information

### 12.1. Toxicity

| Substance name                                                   | Toxicological information                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1,2-Ethanediol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3         | <b>LC<sub>50</sub>:</b> 72,860 mg/l 4 d (fish, Pimephales promelas (fathead minnow))<br><b>NOEC:</b> 15,380 mg/l (fish, Pimephales promelas (fathead minnow)) 7d<br><b>EC<sub>50</sub>:</b> >100 mg/l 2 d (Daphnia magna (Big water flea)) OECD 202<br><b>NOEC:</b> 8,590 mg/l (Ceriodaphnia spec)<br><b>EC<sub>50</sub>:</b> 6,500 – 13,000 mg/l 4 d (Algae/water plant, Selenastrum capricornutum) |
| 1,4-diazabicyclooctane<br>CAS No.: 280-57-9<br>EC No.: 205-999-9 | <b>LC<sub>50</sub>:</b> 681 mg/l 4 d (fish, Leuciscus idus (golden orfe)) DIN 38412 T.15)<br><b>EC<sub>50</sub>:</b> >100 mg/l 2 d (Daphnia magna (Big water flea)) OECD 202<br><b>EC<sub>50</sub>:</b> 110 mg/l 3 d (Algae/water plant, Pseudokirchneriella subcapitata) OECD 201<br><b>EC<sub>50</sub>:</b> 356 mg/l (Pseudomonas putida) DIN 38412 T.8, 17h                                       |

### 12.2. Persistence and degradability

| Substance name                      | Biodegradation | Remark |
|-------------------------------------|----------------|--------|
| 1,2-Ethanediol<br>CAS No.: 107-21-1 | Yes, rapidly   |        |

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| Substance name    | Biodegradation | Remark |
|-------------------|----------------|--------|
| EC No.: 203-473-3 |                |        |

### 12.3. Bioaccumulative potential

| Substance name                                           | Log K <sub>OW</sub> | Bioconcentration factor (BCF) |
|----------------------------------------------------------|---------------------|-------------------------------|
| 1,2-Ethanediol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | 1.36                |                               |

### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

| Substance name                                                   | Results of PBT and vPvB assessment                                                               |
|------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| 1,2-Ethanediol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3         | The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII. |
| 1,4-diazabicyclooctane<br>CAS No.: 280-57-9<br>EC No.: 205-999-9 | The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII. |

### 12.6. Other adverse effects

No data available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### 13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

#### Waste code product:

07 02 08 \* other still bottoms and reaction residues

\*: Evidence for disposal must be provided.

#### Waste treatment options

#### Appropriate disposal / Product:

Consult the appropriate local waste disposal expert about waste disposal.

## SECTION 14: Transport information

No dangerous good in sense of these transport regulations.

| Land transport<br>(ADR/RID)                                         | Inland waterway<br>craft (ADN)                                      | Sea transport<br>(IMDG)                                             | Air transport<br>(ICAO-TI / IATA-<br>DGR)                           |
|---------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------|
| <b>14.1. UN-No.</b>                                                 |                                                                     |                                                                     |                                                                     |
| No dangerous<br>good in sense of<br>these transport<br>regulations. | No dangerous<br>good in sense of<br>these transport<br>regulations. | No dangerous<br>good in sense of<br>these transport<br>regulations. | No dangerous<br>good in sense of<br>these transport<br>regulations. |
| <b>14.2. UN proper shipping name</b>                                |                                                                     |                                                                     |                                                                     |
| No dangerous good in sense of<br>these transport regulations.       | No dangerous good in sense of<br>these transport regulations.       | No dangerous good in sense of<br>these transport regulations.       | No dangerous good in sense of<br>these transport regulations.       |
| <b>14.3. Transport hazard class(es)</b>                             |                                                                     |                                                                     |                                                                     |
| not relevant                                                        |                                                                     |                                                                     |                                                                     |

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| Land transport<br>(ADR/RID)               | Inland waterway<br>craft (ADN) | Sea transport<br>(IMDG) | Air transport<br>(ICAO-TI / IATA-<br>DGR) |
|-------------------------------------------|--------------------------------|-------------------------|-------------------------------------------|
| <b>14.4. Packing group</b>                |                                |                         |                                           |
| not relevant                              |                                |                         |                                           |
| <b>14.5. Environmental hazards</b>        |                                |                         |                                           |
| not relevant                              |                                |                         |                                           |
| <b>14.6. Special precautions for user</b> |                                |                         |                                           |
| not relevant                              |                                |                         |                                           |

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**  
not relevant

## SECTION 15: Regulatory information

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**15.1.1. EU legislation**

No data available

**15.1.2. National regulations**

 **[DE] National regulations**

**Water hazard class**

**WGK:**

1 - schwach wassergefährdend

**15.2. Chemical Safety Assessment**

No data available

## SECTION 16: Other information

**16.1. Indication of changes**

No data available

**16.2. Abbreviations and acronyms**

No data available

**16.3. Key literature references and sources for data**

No data available

**16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]**

**Classification according to Regulation (EC) No 1272/2008 [CLP]:**

| Hazard classes and hazard categories                | Hazard statements                    | Classification procedure |
|-----------------------------------------------------|--------------------------------------|--------------------------|
| Serious eye damage/eye irritation<br>(Eye Irrit. 2) | H319: Causes serious eye irritation. | Calculation method.      |

**16.5. Relevant R-, H- and EUH-phrases (Number and full text)**

| Hazard statements |                            |
|-------------------|----------------------------|
| H228              | Flammable solid.           |
| H302              | Harmful if swallowed.      |
| H315              | Causes skin irritation.    |
| H318              | Causes serious eye damage. |

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### 16.6. Training advice

No data available

### 16.7. Additional information

No data available