



# SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended

## DIPOWER

Creation date 10th May 2023  
Revision date Version 1.0

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

- 1.1. Product identifier** DIPOWER  
Substance / mixture mixture
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**  
**Mixture's intended use**  
Active car washing foam.  
**Mixture uses advised against**  
not available
- 1.3. Details of the supplier of the safety data sheet**  
**Manufacturer**  
Name or trade name TENZI Sp. z o.o.  
Address Skarbimierzycze 20, Dołuje, 72-002  
Poland  
VAT Reg No PL8512583405  
Phone +48 91 3119777  
E-mail info@tenzi.pl  
Web address www.tenzi.pl
- Competent person responsible for the safety data sheet**  
Name technolog@tenzi.pl  
E-mail technolog@tenzi.pl
- 1.4. Emergency telephone number**  
European emergency number: 112

### SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture**  
**Classification of the mixture in accordance with Regulation (EC) No 1272/2008**  
The mixture is classified as dangerous.

Skin Corr. 1A, H314  
Eye Dam. 1, H318

**Most serious adverse effects on human health and the environment**  
Causes severe skin burns and eye damage. Causes serious eye damage.

- 2.2. Label elements**  
**Hazard pictogram**



**Signal word**

Danger

**Hazardous substances**

sodium hydroxide

**Hazard statements**

H314

Causes severe skin burns and eye damage.

**Precautionary statements**

P280

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

P301+P330+P331

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P305+P351+P338

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

P310

Immediately call a POISON CENTER/doctor.

P405

Store locked up.

**Supplemental information**



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5- <15 % non-ionic surfactants, <5 % phosphonates, <5 % anionic surfactants

### Requirements for child-resistant fastenings and tactile warning of danger

Container must carry a tactile warning of danger. Container must be fitted with child-resistant fastening.

### 2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Chemical characterization

Mixture of substances and additives specified below.

**Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment**

| Identification numbers                                                                               | Substance name                                                         | Content in % weight | Classification according to Regulation (EC) No 1272/2008                                                                                                                                                                        | Note |
|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| CAS: 160901-19-9<br>EC: 931-954-4<br>Registration number: polimer                                    | Alcohols, C12-13, ethoxylated                                          | <9                  | Acute Tox. 4, H302<br>Eye Dam. 1, H318<br>Aquatic Chronic 3, H412<br>Specific concentration limit:<br>Eye Dam. 1, H318: C > 10 %<br>Eye Irrit. 2, H319: 1 % < C ≤ 10 %                                                          |      |
| Index: 011-002-00-6<br>CAS: 1310-73-2<br>EC: 215-185-5<br>Registration number: 01-2119457892-27-XXXX | sodium hydroxide                                                       | <9                  | Met. Corr. 1, H290<br>Skin Corr. 1A, H314<br>Specific concentration limit:<br>Skin Corr. 1B, H314: 2 % ≤ C < 5 %<br>Skin Corr. 1A, H314: C ≥ 5 %<br>Eye Irrit. 2, H319: 0.5 % ≤ C < 2 %<br>Skin Irrit. 2, H315: 0.5 % ≤ C < 2 % |      |
| Index: 603-002-00-5<br>CAS: 64-17-5<br>EC: 200-578-6<br>Registration number: 01-2119457610-43-XXXX   | ethanol                                                                | <6                  | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>Specific concentration limit:<br>Eye Irrit. 2, H319: C ≥ 50 %                                                                                                                       |      |
| CAS: 68439-57-6<br>Registration number: 01-2119513401-57-XXXX                                        | sulfonic acids, C14-16-hydroskylalkane and C14-16-alkene, sodium salts | <3                  | Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Specific concentration limit:<br>Skin Irrit. 2, H315; Eye Dam. 1, H318: C > 38 %<br>Skin Irrit. 2, H315; Eye Irrit. 2, H319: 5 % < C ≤ 38 %<br>Skin Irrit. 2, H315: C ≤ 5 %          |      |
| CAS: 6419-19-8<br>EC: 229-146-5<br>Registration number: 01-2119487988-08-xxxx                        | Aminotrimethylene phosphonic acid                                      | <2                  | Met. Corr. 1, H290<br>Eye Irrit. 2, H319                                                                                                                                                                                        |      |
| CAS: 2809-21-4<br>EC: 220-552-8<br>Registration number: 01-2119510391-53-XXXX                        | etidronic acid                                                         | <2                  | Met. Corr. 1, H290<br>Acute Tox. 4, H302<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318                                                                                                                                             |      |



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| Identification numbers                                                                                 | Substance name            | Content in % weight | Classification according to Regulation (EC) No 1272/2008 | Note |
|--------------------------------------------------------------------------------------------------------|---------------------------|---------------------|----------------------------------------------------------|------|
| Index: 603-096-00-8<br>CAS: 112-34-5<br>EC: 203-961-6<br>Registration number:<br>01-2119475104-44-XXXX | 2-(2-butoxyethoxy)ethanol | <2                  | Eye Irrit. 2, H319                                       | 1, 2 |

### Notes

- 1 A substance for which exposure limits are set.
- 2 The use of the substance is restricted by Annex XVII of REACH Regulation

Full text of all classifications and hazard statements is given in the section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

#### If inhaled

Terminate the exposure immediately; move the affected person to fresh air. Take care of your own safety, do not let the affected person walk! Beware of the contaminated clothes. Depending on the situation, call the medical rescue service and ensure medical treatment considering the frequent need of further observation for at least 24 hours.

#### If on skin

Remove contaminated clothes. Take off any rings, watches, bracelets before or during washing if worn in the contaminated areas of the skin. Rinse contaminated areas with a flow of water, lukewarm at best, for 10-30 minutes; do not use any brush, soap or neutralizers. Depending on the situation, call the medical rescue service and always ensure medical treatment. Rinse cautiously with water for several minutes. Rinse skin with water or shower.

#### If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. No neutralization should be performed in any case! Rinsing should be continued for 10-30 minutes from the inner to the outer eye corner to make sure that the other eye is not involved. Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible. Everyone must be referred for treatment even if affected only a little.

#### If swallowed

DO NOT INDUCE VOMITING! Even the induced vomiting can cause complications as in case of detergents and other foaming substances.

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

#### If inhaled

Inhaling vapours can cause corrosion of the breathing system.

#### If on skin

Causes severe skin burns.

#### If in eyes

Causes serious eye damage.

#### If swallowed

Corrosion of the digestion system can occur.

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

Symptomatic treatment.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

#### Unsuitable extinguishing media

Water - full jet.

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

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.



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### 5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

## SECTION 6: Accidental release measures

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

Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not inhale mist/vapours/spray. Prevent contact with skin and eyes.

### 6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

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

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

### 6.4. Reference to other sections

See the Section 7, 8 and 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Prevent formation of gases and vapours in concentrations exceeding the occupational exposure limits. Do not inhale mist/vapours/spray. Prevent contact with skin and eyes. Wash hands and exposed parts of the body thoroughly after handling. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.

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

Store in a tightly closed, original plastic container (high density polyethylene HDPE). Store this product in a dry environment that will be maintained at 5°C - 35°C temperature with a good ventilation system and an easy washable, nonabsorbable alkaline resistant floor. DO NOT expose the product to sunlight and keep away from heat, frost, sparks, flame and source of ignition.

Storage temperature min 5 °C, max 35 °C

### 7.3. Specific end use(s)

not available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

#### European Union

#### Commission Directive 2006/15/EC

| Substance name (component)                | Type           | Value                   |
|-------------------------------------------|----------------|-------------------------|
| 2-(2-butoxyethoxy)ethanol (CAS: 112-34-5) | OEL 8 hours    | 67,5 mg/m <sup>3</sup>  |
|                                           | OEL 8 hours    | 10 ppm                  |
|                                           | OEL 15 minutes | 101,2 mg/m <sup>3</sup> |
|                                           | OEL 15 minutes | 15 ppm                  |

#### DNEL

| 2-(2-butoxyethoxy)ethanol |                   |           |                          |                     |        |
|---------------------------|-------------------|-----------|--------------------------|---------------------|--------|
| Workers / consumers       | Route of exposure | Value     | Effect                   | Value determination | Source |
| Workers                   | Dermal            | 20 mg/kg  | Chronic effects systemic |                     | SDS    |
| Workers                   | Inhalation        | 67.5 mg/l | Chronic effects systemic |                     | SDS    |
| Workers                   | Inhalation        | 67.5 mg/l | Chronic effects local    |                     | SDS    |
| Consumers                 | Inhalation        | 50.6 mg/l | Acute effects local      |                     | SDS    |



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### 2-(2-butoxyethoxy)ethanol

| Workers / consumers | Route of exposure | Value      | Effect                   | Value determination | Source |
|---------------------|-------------------|------------|--------------------------|---------------------|--------|
| Consumers           | Dermal            | 10 mg/kg   | Chronic effects systemic |                     | SDS    |
| Consumers           | Inhalation        | 3 mg/l     | Chronic effects systemic |                     | SDS    |
| Consumers           | Oral              | 1.25 mg/kg | Chronic effects systemic |                     | SDS    |
| Consumers           | Inhalation        | 34 mg/l    | Chronic effects local    |                     | SDS    |

### Aminotrimethylene phosphonic acid

| Workers / consumers | Route of exposure | Value                  | Effect                | Value determination | Source                |
|---------------------|-------------------|------------------------|-----------------------|---------------------|-----------------------|
| Workers             | Inhalation        | 19.4 mg/m <sup>3</sup> | Chronic effects local |                     | karta charakterystyki |
| Workers             | Inhalation        | 19.4 mg/m <sup>3</sup> |                       |                     | karta charakterystyki |
| Workers             | Dermal            | 4.8 mg/kg bw/day       | Chronic effects local |                     | karta charakterystyki |
| Workers             | Dermal            | 4.8 mg/kg bw/day       |                       |                     | karta charakterystyki |

### ethanol

| Workers / consumers | Route of exposure | Value                 | Effect                   | Value determination | Source |
|---------------------|-------------------|-----------------------|--------------------------|---------------------|--------|
| Workers             | Dermal            | 343 mg/kg             | Chronic effects systemic |                     | SDS    |
| Workers             | Inhalation        | 950 mg/m <sup>3</sup> | Acute effects systemic   |                     | SDS    |
| Workers             | Dermal            | 1900 mg/kg            | Acute effects systemic   |                     | SDS    |
| Consumers           | Dermal            | 206 mg/kg             | Chronic effects systemic |                     | SDS    |
| Consumers           | Oral              | 87 mg/kg              | Chronic effects systemic |                     | SDS    |
| Consumers           | Inhalation        | 114 mg/m <sup>3</sup> | Chronic effects systemic |                     | SDS    |
| Consumers           | Dermal            | 950 mg/kg             | Acute effects systemic   |                     | SDS    |
| Consumers           | Inhalation        | 950 mg/m <sup>3</sup> | Acute effects systemic   |                     | SDS    |

### etidronic acid

| Workers / consumers | Route of exposure | Value     | Effect                   | Value determination | Source |
|---------------------|-------------------|-----------|--------------------------|---------------------|--------|
| Consumers           | Oral              | 6.5 mg/kg | Chronic effects systemic |                     | SDS    |
| Consumers           | Oral              | 6.5 mg/kg | Acute effects systemic   |                     | SDS    |

### sodium hydroxide

| Workers / consumers | Route of exposure | Value                 | Effect                | Value determination | Source |
|---------------------|-------------------|-----------------------|-----------------------|---------------------|--------|
| Workers             | Inhalation        | 1.0 mg/m <sup>3</sup> | Chronic effects local |                     | SDS    |
| Consumers           | Inhalation        | 1.0 mg/m <sup>3</sup> | Chronic effects local |                     | SDS    |



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### sulfonic acids, C14-16-hydroskalkane and C14-16-alkene, sodium salts

| Workers / consumers | Route of exposure | Value                    | Effect                   | Value determination | Source                |
|---------------------|-------------------|--------------------------|--------------------------|---------------------|-----------------------|
| Workers             | Dermal            | 2158.33 mg/kg bw/day     | Chronic effects systemic |                     | karta charakterystyki |
| Workers             | Inhalation        | 152.22 mg/m <sup>3</sup> | Chronic effects systemic |                     | karta charakterystyki |
| Consumers           | Dermal            | 1295 mg/kg bw/day        | Chronic effects systemic |                     | karta charakterystyki |
| Consumers           | Oral              | 12.95 mg/kg bw/day       | Chronic effects systemic |                     | karta charakterystyki |
| Consumers           | Inhalation        | 45.04 mg/m <sup>3</sup>  | Chronic effects systemic |                     | karta charakterystyki |

### PNEC

#### 2-(2-butoxyethoxy)ethanol

| Route of exposure                  | Value     | Value determination | Source |
|------------------------------------|-----------|---------------------|--------|
| Drinking water                     | 1 mg/l    |                     | SDS    |
| Marine water                       | 0.1 mg/l  |                     | SDS    |
| Freshwater sediment                | 4 mg/kg   |                     | SDS    |
| Sea sediments                      | 0.4 mg/kg |                     | SDS    |
| Soil (agricultural)                | 0.4 mg/kg |                     | SDS    |
| Microorganisms in sewage treatment | 200 mg/l  |                     | SDS    |
| Oral                               | 56 mg/kg  |                     | SDS    |

#### Aminotrimethylene phosphonic acid

| Route of exposure                  | Value                      | Value determination | Source                |
|------------------------------------|----------------------------|---------------------|-----------------------|
| Drinking water                     | 0.46 mg/l                  |                     | karta charakterystyki |
| Marine water                       | 0.046 mg/l                 |                     | karta charakterystyki |
| Freshwater sediment                | 150 mg/kg of dry substance |                     | karta charakterystyki |
| Sea sediments                      | 15 mg/kg of dry substance  |                     | karta charakterystyki |
| Soil (agricultural)                | 244 mg/kg of dry substance |                     | karta charakterystyki |
| Microorganisms in sewage treatment | 20 mg/l                    |                     | karta charakterystyki |

#### ethanol

| Route of exposure                  | Value      | Value determination | Source |
|------------------------------------|------------|---------------------|--------|
| Soil (agricultural)                | 0.63 mg/kg |                     | SDS    |
| Microorganisms in sewage treatment | 580 mg/l   |                     | SDS    |
| Marine water                       | 0.79 mg/l  |                     | SDS    |
| Freshwater sediment                | 3.6 mg/kg  |                     | SDS    |
| Drinking water                     | 0.96 mg/l  |                     | SDS    |



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| etidronic acid                     |             |                     |        |
|------------------------------------|-------------|---------------------|--------|
| Route of exposure                  | Value       | Value determination | Source |
| Drinking water                     | 0.136 mg/l  |                     | SDS    |
| Marine water                       | 0.014 mg/l  |                     | SDS    |
| Microorganisms in sewage treatment | 20 mg/l     |                     | SDS    |
| Freshwater sediment                | 59 mg/kg    |                     | SDS    |
| Sea sediments                      | 5.9 mg/kg   |                     | SDS    |
| Soil (agricultural)                | 96 mg/kg    |                     | SDS    |
| Oral                               | 0.012 mg/kg |                     | SDS    |

| sulfonic acids, C14-16-hydroskalkane and C14-16-alkene, sodium salts |              |                     |                       |
|----------------------------------------------------------------------|--------------|---------------------|-----------------------|
| Route of exposure                                                    | Value        | Value determination | Source                |
| Drinking water                                                       | 0.024 mg/l   |                     | karta charakterystyki |
| Marine water                                                         | 0.0024 mg/l  |                     | karta charakterystyki |
| Freshwater sediment                                                  | 0.767 mg/kg  |                     | karta charakterystyki |
| Sea sediments                                                        | 0.0767 mg/kg |                     | karta charakterystyki |
| Soil (agricultural)                                                  | 1.21 mg/kg   |                     | karta charakterystyki |
| Water (intermittent release)                                         | 0.0197 mg/kg |                     | karta charakterystyki |

### 8.2. Exposure controls

Take off contaminated clothing and wash before reuse. Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

#### Eye/face protection

Protective goggles or face shield (based on the nature of the work performed).

#### Skin protection

Hand protection: Protective gloves resistant to the product. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Other protection: protective workwear. Contaminated skin should be washed thoroughly.

#### Respiratory protection

Under regular circumstances it is not necessary. In case of inadequate ventilation wear respiratory protection.

#### Thermal hazard

Not available.

#### Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

## SECTION 9: Physical and chemical properties

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

|                                                          |                    |
|----------------------------------------------------------|--------------------|
| Physical state                                           | liquid             |
| Colour                                                   | green              |
| Odour                                                    | characteristic     |
| Melting point/freezing point                             | data not available |
| Boiling point or initial boiling point and boiling range | data not available |
| Flammability                                             | data not available |
| Lower and upper explosion limit                          | data not available |
| Flash point                                              | >64 °C             |
| Auto-ignition temperature                                | data not available |
| Decomposition temperature                                | data not available |
| pH                                                       | 14 (undiluted)     |
| Kinematic viscosity                                      | data not available |



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Solubility in water soluble  
Partition coefficient n-octanol/water (log value) data not available  
Vapour pressure data not available  
Density and/or relative density  
Density 1.065-1.105 g/cm<sup>3</sup>  
Relative vapour density data not available  
Particle characteristics data not available  
Form liquid

### 9.2. Other information

not available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

not available

### 10.2. Chemical stability

The product is stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Unknown.

### 10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

### 10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

### 10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. No toxicological data is available for the mixture.

#### Acute toxicity

Based on available data the classification criteria are not met.

| 2-(2-butoxyethoxy)ethanol |                  |            |               |         |     |                     |        |
|---------------------------|------------------|------------|---------------|---------|-----|---------------------|--------|
| Route of exposure         | Parameter        | Value      | Exposure time | Species | Sex | Value determination | Source |
| Oral                      | LD <sub>50</sub> | 2410 mg/kg |               | Mouse   |     |                     | SDS    |
| Dermal                    | LD <sub>50</sub> | 2764 mg/kg |               | Rabbit  |     |                     | SDS    |

| Alcohols, C12-13, ethoxylated |                  |                 |               |                         |     |                     |                       |
|-------------------------------|------------------|-----------------|---------------|-------------------------|-----|---------------------|-----------------------|
| Route of exposure             | Parameter        | Value           | Exposure time | Species                 | Sex | Value determination | Source                |
| Oral                          | LD <sub>50</sub> | >300-2000 mg/kg |               | Rat (Rattus norvegicus) |     |                     | karta charakterystyki |
| Skin                          | LD <sub>50</sub> | >2000 mg/kg     |               | Rabbit                  | F/M |                     | karta charakterystyki |



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### Aminotrimethylene phosphonic acid

| Route of exposure | Parameter        | Value      | Exposure time | Species                 | Sex | Value determination | Source                |
|-------------------|------------------|------------|---------------|-------------------------|-----|---------------------|-----------------------|
| Oral              | LD <sub>50</sub> | 2910 mg/kg |               | Rat (Rattus norvegicus) |     |                     | karta charakterystyki |
| Dermal            | LD <sub>50</sub> | 6310 mg/kg |               | Rabbit                  |     |                     | karta charakterystyki |

### ethanol

| Route of exposure | Parameter        | Value      | Exposure time | Species                 | Sex | Value determination | Source |
|-------------------|------------------|------------|---------------|-------------------------|-----|---------------------|--------|
| Oral              | LD <sub>50</sub> | 6.2-15 g/l |               | Rat (Rattus norvegicus) |     |                     | SDS    |
| Oral              | LDLo             | 6000 mg/kg |               | Human                   |     |                     | SDS    |
|                   | LDLo             | 7060 mg/kg |               | Rat (Rattus norvegicus) |     |                     | SDS    |
| Inhalation        | LC <sub>50</sub> | <50 mg/l   | 4 hours       | Rat (Rattus norvegicus) |     |                     | SDS    |

### etidronic acid

| Route of exposure | Parameter        | Value      | Exposure time | Species                 | Sex | Value determination | Source                |
|-------------------|------------------|------------|---------------|-------------------------|-----|---------------------|-----------------------|
| Oral              | LD <sub>50</sub> | 3200 mg/kg |               | Rat (Rattus norvegicus) |     | Based on evidence   | karta charakterystyki |
| Inhalation        | LD <sub>50</sub> | 3000 mg/kg |               | Rat (Rattus norvegicus) |     | Based on evidence   | karta charakterystyki |

### sodium hydroxide

| Route of exposure | Parameter        | Value     | Exposure time | Species                 | Sex | Value determination | Source |
|-------------------|------------------|-----------|---------------|-------------------------|-----|---------------------|--------|
| Intraperitoneally | LD <sub>50</sub> | 40 mg/kg  |               | Mouse                   |     |                     | SDS    |
| Oral              | LDLo             | 500 mg/kg |               | Rabbit                  |     |                     | SDS    |
| Oral              | TDLo             | 44 mg/kg  |               | Rat (Rattus norvegicus) |     |                     | SDS    |

### sulfonic acids, C14-16-hydroskalkane and C14-16-alkene, sodium salts

| Route of exposure | Parameter        | Value            | Exposure time | Species | Sex | Value determination | Source                |
|-------------------|------------------|------------------|---------------|---------|-----|---------------------|-----------------------|
| Oral              | LD <sub>50</sub> | 2079 mg/kg       |               | Rat     |     |                     | karta charakterystyki |
| Dermal            | LD <sub>50</sub> | 6300-13500 mg/kg |               | Rabbit  |     |                     | karta charakterystyki |
| Inhalation        | LC <sub>50</sub> | >52 mg/l         | 4 hours       | Rat     |     |                     | karta charakterystyki |



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### Skin corrosion/irritation

Causes severe skin burns and eye damage.

#### Alcohols, C12-13, ethoxylated

| Route of exposure | Result         | Method | Exposure time | Species | Value determination | Source                |
|-------------------|----------------|--------|---------------|---------|---------------------|-----------------------|
| Skin              | Not irritating |        |               | Rabbit  |                     | karta charakterystyki |

#### Aminotrimethylene phosphonic acid

| Route of exposure | Result              | Method | Exposure time | Species | Value determination | Source                |
|-------------------|---------------------|--------|---------------|---------|---------------------|-----------------------|
|                   | Slightly irritating |        |               |         |                     | karta charakterystyki |

#### etidronic acid

| Route of exposure | Result     | Method | Exposure time | Species | Value determination | Source                |
|-------------------|------------|--------|---------------|---------|---------------------|-----------------------|
|                   | Irritating |        |               |         | Based on evidence   | karta charakterystyki |

#### sulfonic acids, C14-16-hydroskalkane and C14-16-alkene, sodium salts

| Route of exposure | Result     | Method   | Exposure time | Species | Value determination | Source                |
|-------------------|------------|----------|---------------|---------|---------------------|-----------------------|
| Dermal            | Irritating | OECD 404 |               | Rabbit  |                     | karta charakterystyki |

### Serious eye damage/irritation

Causes severe skin burns and eye damage. Causes serious eye damage.

#### Alcohols, C12-13, ethoxylated

| Route of exposure | Result             | Method | Exposure time | Species | Value determination | Source                |
|-------------------|--------------------|--------|---------------|---------|---------------------|-----------------------|
| Eye               | Serious eye damage |        |               | Rabbit  |                     | karta charakterystyki |

#### Aminotrimethylene phosphonic acid

| Route of exposure | Result     | Method | Exposure time | Species | Value determination | Source                |
|-------------------|------------|--------|---------------|---------|---------------------|-----------------------|
|                   | Irritating |        |               |         |                     | karta charakterystyki |

#### etidronic acid

| Route of exposure | Result             | Method | Exposure time | Species | Value determination | Source                |
|-------------------|--------------------|--------|---------------|---------|---------------------|-----------------------|
|                   | Serious eye damage |        |               |         | Based on evidence   | karta charakterystyki |

#### sulfonic acids, C14-16-hydroskalkane and C14-16-alkene, sodium salts

| Route of exposure | Result     | Method   | Exposure time | Species | Value determination | Source                |
|-------------------|------------|----------|---------------|---------|---------------------|-----------------------|
| Eye               | Irritating | OECD 405 |               | Rabbit  |                     | karta charakterystyki |



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### Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

#### Alcohols, C12-13, ethoxylated

| Route of exposure | Result    | Exposure time | Species                                | Sex | Value determination | Source                 |
|-------------------|-----------|---------------|----------------------------------------|-----|---------------------|------------------------|
| Skin              | No effect |               | Guinea-pig (Cavia aperea f. porcellus) | F/M |                     | karta charaktery styki |

#### etidronic acid

| Route of exposure | Result    | Exposure time | Species | Sex | Value determination | Source                 |
|-------------------|-----------|---------------|---------|-----|---------------------|------------------------|
|                   | No effect |               |         |     | Based on evidence   | karta charaktery styki |

#### sulfonic acids, C14-16-hydroskalkane and C14-16-alkene, sodium salts

| Route of exposure | Result          | Exposure time | Species | Sex | Value determination | Source                 |
|-------------------|-----------------|---------------|---------|-----|---------------------|------------------------|
|                   | Not sensitizing |               |         |     |                     | karta charaktery styki |

### Germ cell mutagenicity

Based on available data the classification criteria are not met.

#### Alcohols, C12-13, ethoxylated

| Result    | Method  | Exposure time | Specific target organ | Species | Sex | Value determination | Source                 |
|-----------|---------|---------------|-----------------------|---------|-----|---------------------|------------------------|
| No effect | in vivo |               |                       |         | F/M |                     | karta charakt erystyki |

#### etidronic acid

| Result   | Method | Exposure time | Specific target organ | Species | Sex | Value determination | Source                 |
|----------|--------|---------------|-----------------------|---------|-----|---------------------|------------------------|
| Negative |        |               |                       |         |     | Based on evidence   | karta charakt erystyki |

### Carcinogenicity

Based on available data the classification criteria are not met.

#### Alcohols, C12-13, ethoxylated

| Route of exposure | Parameter | Value | Result           | Species | Sex | Value determination | Source                 |
|-------------------|-----------|-------|------------------|---------|-----|---------------------|------------------------|
|                   |           |       | Not carcinogenic |         | F/M |                     | karta charaktery styki |

#### etidronic acid

| Route of exposure | Parameter | Value | Result           | Species | Sex | Value determination | Source                 |
|-------------------|-----------|-------|------------------|---------|-----|---------------------|------------------------|
|                   |           |       | Not carcinogenic |         |     | Based on evidence   | karta charaktery styki |



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### Reproductive toxicity

Based on available data the classification criteria are not met.

#### Alcohols, C12-13, ethoxylated

| Effect               | Parameter | Method   | Value | Result    | Species | Sex | Source                 |
|----------------------|-----------|----------|-------|-----------|---------|-----|------------------------|
|                      |           | in vitro |       | No effect |         | F/M | karta charaktery styki |
| Effects on fertility |           |          |       | No effect |         | F/M | karta charaktery styki |

### Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

#### Alcohols, C12-13, ethoxylated

| Route of exposure | Parameter | Value | Result    | Species | Sex | Value determination | Source                 |
|-------------------|-----------|-------|-----------|---------|-----|---------------------|------------------------|
|                   |           |       | No effect |         |     |                     | karta charaktery styki |

#### etidronic acid

| Route of exposure | Parameter | Value | Result   | Species | Sex | Value determination | Source                 |
|-------------------|-----------|-------|----------|---------|-----|---------------------|------------------------|
|                   |           |       | Negative |         |     | Based on evidence   | karta charaktery styki |

### Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

#### Alcohols, C12-13, ethoxylated

| Route of exposure | Parameter | Value    | Exposure time | Specific target organ | Result              | Species                 | Sex | Source                 |
|-------------------|-----------|----------|---------------|-----------------------|---------------------|-------------------------|-----|------------------------|
| Oral              | NOAEL     | 50 mg/kg | 2 years       | Heart                 | Reduced body weight | Rat (Rattus norvegicus) | F/M | karta charakter ystyki |

#### sulfonic acids, C14-16-hydroskyalkane and C14-16-alkene, sodium salts

| Route of exposure | Parameter | Value         | Exposure time | Specific target organ | Result | Species | Sex | Source                 |
|-------------------|-----------|---------------|---------------|-----------------------|--------|---------|-----|------------------------|
|                   | NOAEL     | 259 mg/kg/24h |               |                       |        |         |     | karta charakter ystyki |

### Repeated dose toxicity

#### etidronic acid

| Route of exposure | Parameter | Result   | Value | Exposure time | Species | Sex | Value determination | Source                 |
|-------------------|-----------|----------|-------|---------------|---------|-----|---------------------|------------------------|
|                   |           | Negative |       |               |         |     | Based on evidence   | karta charakter ystyki |



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### Aspiration hazard

Based on available data the classification criteria are not met.

### etidronic acid

| Route of exposure | Result   | Exposure time | Species | Sex | Value determination | Source                 |
|-------------------|----------|---------------|---------|-----|---------------------|------------------------|
|                   | Negative |               |         |     | Based on evidence   | karta charaktery styki |

### 11.2. Information on other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

## SECTION 12: Ecological information

### 12.1. Toxicity

not available

#### Acute toxicity

#### 2-(2-butoxyethoxy)ethanol

| Parameter        | Method   | Value      | Exposure time | Species                               | Environment | Value determination | Source |
|------------------|----------|------------|---------------|---------------------------------------|-------------|---------------------|--------|
| LC <sub>50</sub> |          | 1300 mg/l  |               | Fish (Lepomis macrochirus)            |             |                     | SDS    |
| EC <sub>50</sub> |          | >100 mg/l  |               | Aquatic invertebrates (Daphnia magna) |             |                     | SDS    |
| EC <sub>50</sub> | OECD 201 | >100 mg/l  |               | Algae (Scenedesmus subspicatus)       |             |                     | SDS    |
| EC <sub>10</sub> | OECD 209 | >1995 mg/l |               |                                       |             |                     | SDS    |

#### Alcohols, C12-13, ethoxylated

| Parameter        | Method   | Value      | Exposure time | Species                           | Environment      | Value determination                                       | Source                 |
|------------------|----------|------------|---------------|-----------------------------------|------------------|-----------------------------------------------------------|------------------------|
| LC <sub>50</sub> | OECD 203 | >1-10 mg/l | 96 hours      | Fish (Poecilia reticulata)        |                  | Literary studies                                          | karta charaktery styki |
| EC <sub>50</sub> | OECD 202 | >1-10 mg/l | 48 hours      | Daphnia (Daphnia magna)           |                  | Literary studies                                          | karta charaktery styki |
| EC <sub>50</sub> | OECD 201 | >1-10 mg/l | 72 hours      | Algae (Selenastrum capricornutum) |                  | Literary studies, Observation method, Indicator of growth | karta charaktery styki |
| NOEC             | OECD 201 | >1-10 mg/l | 72 hours      | Algae (Selenastrum capricornutum) |                  | Literary studies, Indicator of growth                     | karta charaktery styki |
| EC <sub>50</sub> |          | 140 mg/l   |               | Bacteria (Salmonella typhimurium) | Activated sludge | Literary studies                                          | karta charaktery styki |
| NOEC             | OECD 208 | 220 mg/l   |               |                                   |                  | Literary studies, Reproduction                            | karta charaktery styki |



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### Alcohols, C12-13, ethoxylated

| Parameter | Method   | Value    | Exposure time | Species       | Environment | Value determination                   | Source                |
|-----------|----------|----------|---------------|---------------|-------------|---------------------------------------|-----------------------|
| NOEC      | OECD 208 | 10 mg/kg |               | Higher plants |             | Literary studies, Indicator of growth | karta charakterystyki |

### Aminotrimethylene phosphonic acid

| Parameter        | Method   | Value     | Exposure time | Species                 | Environment | Value determination | Source                |
|------------------|----------|-----------|---------------|-------------------------|-------------|---------------------|-----------------------|
| EC <sub>50</sub> |          | 297 mg/l  | 48 hours      | Daphnia (Daphnia magna) |             |                     | karta charakterystyki |
| NOEC             |          | ≥25 mg/l  | 28 days       | Daphnia (Daphnia magna) |             |                     | karta charakterystyki |
| LC <sub>50</sub> | OECD 203 | 8132 mg/l | 96 hours      | Fish                    |             |                     | karta charakterystyki |
| LC <sub>50</sub> | OECD 203 | 1212 mg/l | 96 hours      | Fish                    |             |                     | karta charakterystyki |
| LC <sub>50</sub> |          | 160 mg/l  | 96 hours      |                         |             |                     | karta charakterystyki |
| LC <sub>50</sub> |          | 23 mg/l   | 60 days       |                         |             |                     | karta charakterystyki |
| EC <sub>50</sub> |          | 94 mg/l   | 48 hours      |                         |             |                     | karta charakterystyki |
| NOEC             |          | 95 mg/l   | 96 hours      |                         |             |                     | karta charakterystyki |

### etidronic acid

| Parameter        | Method | Value    | Exposure time | Species | Environment | Value determination | Source                |
|------------------|--------|----------|---------------|---------|-------------|---------------------|-----------------------|
| LC <sub>50</sub> |        | 350 mg/l | 96 hours      |         |             | Based on evidence   | karta charakterystyki |

### sodium hydroxide

| Parameter        | Method | Value     | Exposure time | Species                                     | Environment | Value determination | Source |
|------------------|--------|-----------|---------------|---------------------------------------------|-------------|---------------------|--------|
| EC <sub>50</sub> |        | 40.4 mg/l | 48 hours      | Aquatic invertebrates (Ceriodaphnia dubia)  |             |                     | SDS    |
| EC <sub>50</sub> |        | 22 mg/l   | 15 minutes    | Microorganisms (Photobacterium phosphoreum) |             |                     | SDS    |



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### sulfonic acids, C14-16-hydroskalkane and C14-16-alkene, sodium salts

| Parameter         | Method    | Value     | Exposure time | Species                           | Environment      | Value determination | Source                |
|-------------------|-----------|-----------|---------------|-----------------------------------|------------------|---------------------|-----------------------|
| EC <sub>50</sub>  | OECD 202  | 4.53 mg/l | 48 hours      | Daphnia (Daphnia magna)           |                  |                     | karta charakterystyki |
| ErC <sub>50</sub> | ISO 10253 | 5.2 mg/l  | 72 hours      | Algae (Selenastrum capricornutum) |                  |                     | karta charakterystyki |
| LC <sub>50</sub>  | OECD 203  | 4.2 mg/l  | 96 hours      | Fish (Oncorhynchus mykiss)        |                  |                     | karta charakterystyki |
| EC <sub>10</sub>  | OECD 209  | 40 mg/ml  | 3 hours       | Bacteria (Salmonella typhimurium) | Activated sludge |                     | karta charakterystyki |
| NOEC              | OECD 211  | 6.3 mg/l  | 21 days       | Daphnia (Daphnia magna)           |                  |                     | karta charakterystyki |
| NOEC              |           | 3.2 mg/l  | 72 hours      | Algae (Selenastrum capricornutum) |                  |                     | karta charakterystyki |

### Chronic toxicity

#### Alcohols, C12-13, ethoxylated

| Parameter        | Method   | Value       | Exposure time | Species                    | Environment | Value determination | Source                |
|------------------|----------|-------------|---------------|----------------------------|-------------|---------------------|-----------------------|
| EC <sub>10</sub> |          | >0.1-1 mg/l |               | Fish (Pimephales promelas) |             | Literary studies    | karta charakterystyki |
| EC <sub>10</sub> | OECD 211 | >0.1-1 mg/l |               | Daphnia (Daphnia magna)    |             | Literary studies    | karta charakterystyki |

#### etidronic acid

| Parameter        | Method | Value    | Exposure time | Species                 | Environment | Value determination | Source                |
|------------------|--------|----------|---------------|-------------------------|-------------|---------------------|-----------------------|
| EC <sub>50</sub> |        | 229 mg/l | 48 hours      | Daphnia (Daphnia magna) |             | Based on evidence   | karta charakterystyki |

### 12.2. Persistence and degradability

Surfactants are biodegradable according to the European Parliament and Council Regulation (EC) No. 648/2004 on detergents, as amended.

#### Biodegradability

#### Alcohols, C12-13, ethoxylated

| Parameter | Method    | Value | Exposure time | Environment | Value determination | Result               | Source                |
|-----------|-----------|-------|---------------|-------------|---------------------|----------------------|-----------------------|
|           | OECD 301B | >60 % | 28 days       |             | Literary studies    | Easily biodegradable | karta charakterystyki |
|           | OECD 311  | >60 % | 69 days       |             |                     | Biodegradable        | karta charakterystyki |



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| Aminotrimethylene phosphonic acid |           |          |               |             |                     |                      |                       |
|-----------------------------------|-----------|----------|---------------|-------------|---------------------|----------------------|-----------------------|
| Parameter                         | Method    | Value    | Exposure time | Environment | Value determination | Result               | Source                |
|                                   | OECD 301D | 22-23 %  | 28 days       |             |                     | Hardly biodegradable | karta charakterystyki |
| EC <sub>0</sub>                   |           | 200 mg/l | 30 minutes    |             |                     |                      | karta charakterystyki |

### 12.3. Bioaccumulative potential

Not available.

### 12.4. Mobility in soil

Not available.

| Alcohols, C12-13, ethoxylated |       |             |             |                     |                       |
|-------------------------------|-------|-------------|-------------|---------------------|-----------------------|
| Parameter                     | Value | Environment | Temperature | Value determination | Source                |
| Koc                           | >5000 |             |             | Literary studies    | karta charakterystyki |

### 12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

### 12.6. Endocrine disrupting properties

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

### 12.7. Other adverse effects

Not available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

#### Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

#### Waste type code

07 06 04\* other organic solvents, washing liquids and mother liquors

#### Packaging waste type code

15 01 02 plastic packaging

(\*) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

## SECTION 14: Transport information

### 14.1. UN number or ID number

UN 1719

### 14.2. UN proper shipping name

CAUSTIC ALKALI LIQUID, N.O.S. (sodium hydroxide)

### 14.3. Transport hazard class(es)

8 Corrosive substances



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### 14.4. Packing group

II

### 14.5. Environmental hazards

No

### 14.6. Special precautions for user

Reference in the Sections 4 to 8.

### 14.7. Maritime transport in bulk according to IMO instruments

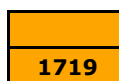
not relevant

#### Additional information

Hazard identification No.

UN number

Safety signs



8



Tunnel restriction code

(E)

## SECTION 15: Regulatory information

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents, as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

#### Restrictions pursuant to Annex XVII of Regulation (EC) No. 1907/2006 (REACH), as amended

2-(2-butoxyethoxy)ethanol

| Restriction | Conditions of restriction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 55          | <p>1. Shall not be placed on the market for the first time after 27 June 2010, for supply to the general public, as a constituent of spray paints or spray cleaners in aerosol dispensers in concentrations equal to or greater than 3 % by weight.</p> <p>2. Spray paints and spray cleaners in aerosol dispensers containing DEGBE and not conforming to paragraph 1 shall not be placed on the market for supply to the general public after 27 December 2010.</p> <p>3. Without prejudice to other Community legislation concerning the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that paints other than spray paints containing DEGBE in concentrations equal to or greater than 3 % by weight of that are placed on the market for supply to the general public are visibly, legibly and indelibly marked by 27 December 2010 as follows:</p> <p>"Do not use in paint spraying equipment".</p> |



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### 15.2. Chemical safety assessment

Chemical safety assessment has not been carried out for the mixture.

Ethyl alcohol: the manufacturer has performed a chemical safety assessment

2-(2-butoxyethoxy)ethanol: A Chemical Safety Assessment has been carried out

Aminotrimethylene phosphonic acid: the manufacturer has not performed a chemical safety assessment

etidronic acid: A Chemical Safety Assessment has not been carried out.

Sulfonic acids, C14-16-hydroskylalkane and C14-16-alkene, sodium salts: no data available

Alcohols, C12-13, ethoxylated: Not applicable.

Sodium hydroxide: the manufacturer has performed a chemical safety assessment

### SECTION 16: Other information

#### A list of standard risk phrases used in the safety data sheet

|      |                                                    |
|------|----------------------------------------------------|
| H225 | Highly flammable liquid and vapour.                |
| H290 | May be corrosive to metals.                        |
| H302 | Harmful if swallowed.                              |
| H314 | Causes severe skin burns and eye damage.           |
| H315 | Causes skin irritation.                            |
| H318 | Causes serious eye damage.                         |
| H319 | Causes serious eye irritation.                     |
| H412 | Harmful to aquatic life with long lasting effects. |

#### Guidelines for safe handling used in the safety data sheet

|                |                                                                                                                                  |
|----------------|----------------------------------------------------------------------------------------------------------------------------------|
| P280           | Wear protective gloves/protective clothing/eye protection/face protection.                                                       |
| P301+P330+P331 | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.                                                                               |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.                           |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P310           | Immediately call a POISON CENTER/doctor.                                                                                         |
| P405           | Store locked up.                                                                                                                 |

#### Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

#### Key to abbreviations and acronyms used in the safety data sheet

|                  |                                                                                                   |
|------------------|---------------------------------------------------------------------------------------------------|
| ADR              | European agreement concerning the international carriage of dangerous goods by road               |
| BCF              | Bioconcentration Factor                                                                           |
| CAS              | Chemical Abstracts Service                                                                        |
| CLP              | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures |
| EC               | Identification code for each substance listed in EINECS                                           |
| EC <sub>0</sub>  | Concentration of a substance when it is affected 0% of the population                             |
| EC <sub>10</sub> | Concentration of a substance when it is affected 10% of the population                            |
| EC <sub>50</sub> | Concentration of a substance when it is affected 50% of the population                            |
| EINECS           | European Inventory of Existing Commercial Chemical Substances                                     |
| EmS              | Emergency plan                                                                                    |
| EU               | European Union                                                                                    |
| EuPCS            | European Product Categorisation System                                                            |
| IATA             | International Air Transport Association                                                           |
| IBC              | International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals       |
| ICAO             | International Civil Aviation Organization                                                         |
| IMDG             | International Maritime Dangerous Goods                                                            |
| IMO              | International Maritime Organization                                                               |
| INCI             | International Nomenclature of Cosmetic Ingredients                                                |
| ISO              | International Organization for Standardization                                                    |
| IUPAC            | International Union of Pure and Applied Chemistry                                                 |



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|                     |                                                                                                   |
|---------------------|---------------------------------------------------------------------------------------------------|
| LC <sub>50</sub>    | Lethal concentration of a substance in which it can be expected death of 50% of the population    |
| LD <sub>50</sub>    | Lethal dose of a substance in which it can be expected death of 50% of the population             |
| log K <sub>ow</sub> | Octanol-water partition coefficient                                                               |
| NOAEL               | No observed adverse effect level                                                                  |
| NOEC                | No observed effect concentration                                                                  |
| OEL                 | Occupational Exposure Limits                                                                      |
| PBT                 | Persistent, Bioaccumulative and Toxic                                                             |
| ppm                 | Parts per million                                                                                 |
| REACH               | Registration, Evaluation, Authorisation and Restriction of Chemicals                              |
| RID                 | Agreement on the transport of dangerous goods by rail                                             |
| UN                  | Four-figure identification number of the substance or article taken from the UN Model Regulations |
| UVCB                | Substances of unknown or variable composition, complex reaction products or biological materials  |
| VOC                 | Volatile organic compounds                                                                        |
| vPvB                | Very Persistent and very Bioaccumulative                                                          |
| Acute Tox.          | Acute toxicity                                                                                    |
| Aquatic Chronic     | Hazardous to the aquatic environment (chronic)                                                    |
| Eye Dam.            | Serious eye damage                                                                                |
| Flam. Liq.          | Flammable liquid                                                                                  |
| Met. Corr.          | Corrosive to metals                                                                               |
| Skin Corr.          | Skin corrosion                                                                                    |

### Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

### Recommended restrictions of use

not available

### Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended.  
REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

### More information

Classification procedure - calculation method.

### Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.