

# SAFETY DATA SHEET

PoliDent

according to Regulation (EC) No 1907/2006 (REACH) as amended -  
COMMISSION REGULATION (EU) 2020/878



## POLICOLD LIQUID

|               |                    |         |     |
|---------------|--------------------|---------|-----|
| Creation date | 14th May 2021      |         |     |
| Revision date | 16th December 2022 | Version | 3.0 |

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

- 1.1. Product identifier**  
Substance / mixture POLICOLD LIQUID mixture
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**  
**Mixture's intended use**  
Material for the fabrication of dentures, repairs and rebasing by using the cast technique and the cold curing.  
**Mixture uses advised against**  
The product should not be used in ways other than those referred in Section 1.
- 1.3. Details of the supplier of the safety data sheet**  
**Manufacturer**  
Name or trade name Polident d.o.o., Dental Products  
Industry  
Address Volčja Draga 42, Volčja Draga, 5293  
Slovenia  
VAT Reg No SI31319297  
Phone 00386 5 3304840, Fax: 00386 5 3304870  
E-mail polident@polident.si
- Competent person responsible for the safety data sheet**  
Name Polident d.o.o., Dental Products  
Industry  
E-mail polident@polident.si
- 1.4. Emergency telephone number**  
00386 5 3304840 - Polident d.o.o. - Available from mon to fri 7 a.m. to 3 p.m.  
112-Information center-available 0-24

### 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.
- Flam. Liq. 2, H225  
Skin Irrit. 2, H315  
Skin Sens. 1, H317  
STOT SE 3, H335
- Full text of all classifications and hazard statements is given in the section 16.
- Most serious adverse physico-chemical effects**  
Highly flammable liquid and vapour.
- Most serious adverse effects on human health and the environment**  
Causes skin irritation. May cause an allergic skin reaction. May cause respiratory irritation.

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



**Signal word**  
Danger

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### Hazardous substances

Methyl methacrylate  
Ethylene dimethacrylate  
Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol, 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-

### Hazard statements

H225 Highly flammable liquid and vapour.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H335 May cause respiratory irritation.

### Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P262 Do not get in eyes, on skin, or on clothing.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
P501 Dispose of contents/container to in accordance with local/regional/national/international regulations.

### 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

Product contents methyl methacrylate, dimethacrylate and activator.

**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 |
|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|---------------------|----------------------------------------------------------------------------------------------------------------|------|
| Index: 607-035-00-6<br>CAS: 80-62-6<br>EC: 201-297-1<br>Registration number: 01-2119452498-28  | Methyl methacrylate                                                                                                       | 80-95               | Flam. Liq. 2, H225<br>Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>STOT SE 3, H335                             | 2    |
| Index: 607-114-00-5<br>CAS: 97-90-5<br>EC: 202-617-2<br>Registration number: 01-2119965172-38  | Ethylene dimethacrylate                                                                                                   | 2,5-10              | Skin Sens. 1, H317<br>STOT SE 3, H335                                                                          | 1    |
| EC: 911-490-9<br>Registration number: 01-2119979579-10-0001                                    | Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol, 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]- | <1                  | Acute Tox. 4, H302<br>Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Eye Dam. 1, H318<br>Aquatic Chronic 3, H412 |      |
| Index: 607-124-00-X<br>CAS: 868-77-9<br>EC: 212-782-2<br>Registration number: 01-2119490169-29 | 2-hydroxyethyl methacrylate                                                                                               | <0,1                | Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Eye Irrit. 2, H319                                                | 1    |

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### Notes

- 1 Note D: Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed in Part 3 of Annex VI to Regulation (EC) No 1272/2008. However, such substances are sometimes placed on the market in a non-stabilised form. In this case, the supplier who places such a substance on the market must state on the label the name of the substance followed by the words "non-stabilised".
- 2 A substance for which exposure limits are set.

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 unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

#### If inhaled

Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

#### If on skin

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists. 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. Rinsing should continue at least for 10 minutes. Provide medical treatment, specialized if possible.

#### If swallowed

Rinse out the mouth with water and provide 2-5 dL of water. Provide medical treatment if the person has any health problems.

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

#### If inhaled

May cause respiratory irritation. Cough, headache.

#### If on skin

May cause an allergic skin reaction. Irritation, itching, redness.

#### If in eyes

Not expected. When intruding eyes, it can evoke irritation. Irritation, lacrimation, pain.

#### If swallowed

Irritation, nausea.

### 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

Highly flammable liquid. 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. Closed containers with the product near the fire should be cooled with water. 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

Provide sufficient ventilation. Highly flammable liquid and vapour. Remove all ignition sources. 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. In the event of substantial pollution, contact respective authorities and wastewater treatment plants.

### 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

Only adequate trained persons may deal with product. For use in dentistry only.

Prevent formation of gases and vapours in flammable or explosive concentrations and concentrations exceeding the occupational exposure limits. The product should be used only in the areas where it is not in contact with open fire and other ignition sources. Use non-sparking tools. Use of antistatic clothes and footwear is recommended. The vapour is heavier than air; beware of pits and confined spaces. Do not inhale mist/vapours/spray. Prevent contact with skin and eyes. No smoking. Wash hands and exposed parts of the body thoroughly after handling. Use only outdoors or in a well-ventilated area. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Take action to prevent static discharges. Keep away from children.

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

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Do not expose to sunlight. Keep cool. Keep away from sources of ignition - No Smoking. Keep away from children.

Keep the liquid only in the original vessel at a temperature preferably not exceeding 25°C.

#### The specific requirements or rules relating to the substance/mixture

Solvent vapours are heavier than air and accumulate especially near the floor where they may form an explosive mixture with the air.

### 7.3. Specific end use(s)

Expiry date: Considering the instructions for safety storage and handling the expiry date of the liquid is three years.

## 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 2009/161/EU

| Substance name (component)         | Type           | Value   | Note |
|------------------------------------|----------------|---------|------|
| Methyl methacrylate (CAS: 80-62-6) | OEL 8 hours    | 50 ppm  |      |
|                                    | OEL 15 minutes | 100 ppm |      |

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### Slovenia

Uradni list RS, Št. 72/2021

| Substance name (component)         | Type         | Value                 | Note                                                                              |
|------------------------------------|--------------|-----------------------|-----------------------------------------------------------------------------------|
| Methyl methacrylate (CAS: 80-62-6) | 8 hours      | 210 mg/m <sup>3</sup> | Substances representing no risk to the foetus with reference to the limit values. |
|                                    | 8 hours      | 50 ppm                |                                                                                   |
|                                    | KTV (15 min) | 420 mg/m <sup>3</sup> |                                                                                   |
|                                    | KTV (15 min) | 100 ppm               |                                                                                   |

### United Kingdom

EH40/2005 Workplace exposure limits (Fourth Edition 2020)

| Substance name (component)         | Type      | Value                 | Note |
|------------------------------------|-----------|-----------------------|------|
| Methyl methacrylate (CAS: 80-62-6) | WEL 8h    | 208 mg/m <sup>3</sup> |      |
|                                    | WEL 8h    | 50 ppm                |      |
|                                    | WEL 15min | 416 mg/m <sup>3</sup> |      |
|                                    | WEL 15min | 100 ppm               |      |

### DNEL

Ethylene dimethacrylate

| Workers / consumers | Route of exposure | Value                  | Effect                   | Value determination | Source     |
|---------------------|-------------------|------------------------|--------------------------|---------------------|------------|
| Workers             | Inhalation        | 2.45 mg/m <sup>3</sup> | Systemic chronic effects |                     | ECHA REACH |
| Workers             | Dermal            | 1.3 mg/kg bw/day       | Systemic chronic effects |                     | ECHA REACH |
| Consumers           | Inhalation        | 1.45 mg/m <sup>3</sup> | Systemic chronic effects |                     | ECHA REACH |
| Consumers           | Dermal            | 0.83 mg/kg bw/day      | Systemic chronic effects |                     | ECHA REACH |
| Consumers           | Oral              | 0.83 mg/kg bw/day      | Systemic chronic effects |                     | ECHA REACH |

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### Methyl methacrylate

| Workers / consumers | Route of exposure | Value                   | Effect                   | Value determination | Source     |
|---------------------|-------------------|-------------------------|--------------------------|---------------------|------------|
| Workers             | Inhalation        | 348.4 mg/m <sup>3</sup> | Systemic chronic effects |                     | ECHA REACH |
| Workers             | Inhalation        | 208 mg/m <sup>3</sup>   | Local chronic effects    |                     | ECHA REACH |
| Workers             | Inhalation        | 416 mg/m <sup>3</sup>   | Local acute effects      |                     | ECHA REACH |
| Workers             | Dermal            | 13.67 mg/kg bw/day      | Systemic chronic effects |                     | ECHA REACH |
| Workers             | Dermal            | 1.5 mg/cm <sup>2</sup>  | Local chronic effects    |                     | ECHA REACH |
| Workers             | Dermal            | 1.5 mg/cm <sup>2</sup>  | Local acute effects      |                     | ECHA REACH |
| Consumers           | Inhalation        | 74.3 mg/m <sup>3</sup>  | Systemic chronic effects |                     | ECHA REACH |
| Consumers           | Inhalation        | 104 mg/m <sup>3</sup>   | Local chronic effects    |                     | ECHA REACH |
| Consumers           | Inhalation        | 208 mg/m <sup>3</sup>   | Local acute effects      |                     | ECHA REACH |
| Consumers           | Dermal            | 8.2 mg/kg bw/day        | Systemic chronic effects |                     | ECHA REACH |
| Consumers           | Dermal            | 1.5 mg/cm <sup>2</sup>  | Local chronic effects    |                     | ECHA REACH |
| Consumers           | Dermal            | 1.5 mg/cm <sup>2</sup>  | Local acute effects      |                     | ECHA REACH |
| Consumers           | Oral              | 8.2 mg/kg bw/day        | Systemic chronic effects |                     | ECHA REACH |

Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol, 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-

| Workers / consumers | Route of exposure | Value                  | Effect                   | Value determination | Source     |
|---------------------|-------------------|------------------------|--------------------------|---------------------|------------|
| Workers             | Inhalation        | 9.8 mg/m <sup>3</sup>  | Systemic chronic effects |                     | ECHA REACH |
| Workers             | Dermal            | 1.4 mg/kg bw/day       | Systemic chronic effects |                     | ECHA REACH |
| Consumers           | Inhalation        | 1.74 mg/m <sup>3</sup> | Systemic chronic effects |                     | ECHA REACH |
| Consumers           | Dermal            | 0.5 mg/kg bw/day       | Systemic chronic effects |                     | ECHA REACH |
| Consumers           | Oral              | 0.5 mg/kg bw/day       | Systemic chronic effects |                     | ECHA REACH |

### PNEC

#### Ethylene dimethacrylate

| Route of exposure                             | Value                                   | Value determination | Source     |
|-----------------------------------------------|-----------------------------------------|---------------------|------------|
| Freshwater environment                        | 0.139 mg/l                              |                     | ECHA REACH |
| Seawater                                      | 0.014 mg/l                              |                     | ECHA REACH |
| Microorganisms in wastewater treatment plants | 57 mg/l                                 |                     | ECHA REACH |
| Freshwater sediment                           | 1.6 mg/kg of dry substance of sediment  |                     | ECHA REACH |
| Sea sediments                                 | 0.16 mg/kg of dry substance of sediment |                     | ECHA REACH |
| Soil (agricultural)                           | 0.239 mg/kg of dry substance of soil    |                     | ECHA REACH |

#### Methyl methacrylate

| Route of exposure      | Value     | Value determination | Source     |
|------------------------|-----------|---------------------|------------|
| Freshwater environment | 0.94 mg/l |                     | WCHA REACH |

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Methyl methacrylate

| Route of exposure                             | Value                                   | Value determination | Source     |
|-----------------------------------------------|-----------------------------------------|---------------------|------------|
| Seawater                                      | 0.094 mg/l                              |                     | WCHA REACH |
| Microorganisms in wastewater treatment plants | 10 mg/l                                 |                     | WCHA REACH |
| Freshwater sediment                           | 10.2 mg/kg of dry substance of sediment |                     | WCHA REACH |
| Sea sediments                                 | 1.02 mg/kg of dry substance of sediment |                     | WCHA REACH |
| Soil (agricultural)                           | 1.48 mg/kg of dry substance of soil     |                     | WCHA REACH |

Reaction mass of 2,2'-[[4-methylphenyl]imino]bisethanol and Ethanol, 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-

| Route of exposure                             | Value                                   | Value determination | Source     |
|-----------------------------------------------|-----------------------------------------|---------------------|------------|
| Freshwater environment                        | 0.048 mg/l                              |                     | ECHA REACH |
| Water (intermittent release)                  | 0.48 mg/l                               |                     | ECHA REACH |
| Seawater                                      | 0.005 mg/l                              |                     | ECHA REACH |
| Microorganisms in wastewater treatment plants | 10 mg/l                                 |                     | ECHA REACH |
| Freshwater sediment                           | 1.2 mg/kg of dry substance of sediment  |                     | ECHA REACH |
| Sea sediments                                 | 0.12 mg/kg of dry substance of sediment |                     | ECHA REACH |
| Soil (agricultural)                           | 0.21 mg/kg of dry substance of soil     |                     | ECHA REACH |

### 8.2. Exposure controls

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. If exposure limits cannot be observed in this mode, suitable protection of airways must be used. 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 glasses with side shields. EN166 - Personal Eye Protection Standard.

#### Skin protection

Hand protection: Protective gloves resistant to the product. EN ISO 374-1.

Material: butyl rubber.

When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Change gloves, if contamination occurs or duration of activity exceed break through time. Breakthrough time of the glove material: refer to the information provided by the glove's producer.

Commercial medical gloves do not provide protection against the sensitizing effect of methacrylates.

#### Respiratory protection

Halfmask with a filter against organic vapours type A or a self-contained breathing apparatus as appropriate if exposure limit values of substances are exceeded or in a poorly ventilated environment.

#### 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

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|                                                          |                                 |
|----------------------------------------------------------|---------------------------------|
| Physical state                                           | liquid                          |
| Colour                                                   | colourless                      |
| Odour                                                    | characteristic                  |
| Melting point/freezing point                             | -48 °C                          |
| Boiling point or initial boiling point and boiling range | 100,5 °C                        |
| Flammability                                             | data not available              |
| Lower and upper explosion limit                          |                                 |
| bottom                                                   | 2,1 %                           |
| upper                                                    | 12,5 %                          |
| Flash point                                              | 10 °C                           |
| Auto-ignition temperature                                | 421 °C                          |
| Decomposition temperature                                | data not available              |
| pH                                                       | data not available              |
| Kinematic viscosity                                      | data not available              |
| Viscosity                                                | 0,53 mPas at 20 °C              |
| Solubility in water                                      | soluble                         |
| Partition coefficient n-octanol/water (log value)        | 1,38                            |
| Vapour pressure                                          | 3600 Pa at 20 °C                |
| Density and/or relative density                          |                                 |
| Density                                                  | 0,94 g/cm <sup>3</sup> at 20 °C |
| Relative vapour density                                  | 3,5 (air = 1)                   |
| Particle characteristics                                 | data not available              |

### 9.2. Other information

not available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Will exothermically polymerise in the presence of initiators.

### 10.2. Chemical stability

The product is stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Susceptible to polymerisation initiated by prolonged heating or the presence of catalyst.

### 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

Polymerisation catalysts, such as peroxy or azo compounds, strong acids, alkalies and oxidizing agents. Oxides and salts of transition metals. Organic Nitrogen containing compounds. Cyclohexanone / Cyclohexenol tautomer.

### 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.



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### Acute toxicity

Based on available data the classification criteria are not met.

2-hydroxyethyl methacrylate

| Route of exposure | Parameter        | Method | Value       | Exposure time | Species | Sex | Source           |
|-------------------|------------------|--------|-------------|---------------|---------|-----|------------------|
|                   | LD <sub>50</sub> |        | >5000 mg/kg |               | Rat     |     | raw material SDS |
|                   | LD <sub>50</sub> |        | >5000 mg/kg |               | Rabbit  |     | raw material SDS |

Ethylene dimethacrylate

| Route of exposure | Parameter        | Method | Value       | Exposure time | Species | Sex | Source           |
|-------------------|------------------|--------|-------------|---------------|---------|-----|------------------|
| Oral              | LD <sub>50</sub> |        | >5000 mg/kg |               | Rat     |     | raw material SDS |
| Dermal            | LD <sub>50</sub> |        | >2000 mg/kg |               |         |     | raw material SDS |

Methyl methacrylate

| Route of exposure | Parameter        | Method | Value       | Exposure time | Species | Sex | Source                   |
|-------------------|------------------|--------|-------------|---------------|---------|-----|--------------------------|
| Oral              | LD <sub>50</sub> |        | >5000 mg/kg |               |         |     | raw material SDS         |
| Inhalation        | LC <sub>50</sub> |        | 7093 ppm    | 4 hour        |         |     | vapour, raw material SDS |
| Dermal            | LD <sub>50</sub> |        | >5000 mg/kg |               |         |     | raw material SDS         |

Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol, 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-

| Route of exposure | Parameter        | Method   | Value       | Exposure time | Species | Sex | Source           |
|-------------------|------------------|----------|-------------|---------------|---------|-----|------------------|
| Oral              | EC <sub>50</sub> | OECD 401 | 619 mg/kg   |               |         |     | raw material SDS |
| Dermal            | EC <sub>50</sub> | OECD 402 | >2000 mg/kg |               |         |     | raw material SDS |

### Skin corrosion/irritation

Causes skin irritation.

2-hydroxyethyl methacrylate

| Route of exposure | Result         | Method | Exposure time | Species | Source                        |
|-------------------|----------------|--------|---------------|---------|-------------------------------|
| Dermal            | Not irritating |        | 24 hour       | Rabbit  | Draize test, raw material SDS |

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Ethylene dimethacrylate

| Route of exposure | Result         | Method | Exposure time | Species | Source                            |
|-------------------|----------------|--------|---------------|---------|-----------------------------------|
| Dermal            | Not irritating |        | 24 hour       | Rabbit  | FDA 1959 Drazie, raw material SDS |

Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol, 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-

| Route of exposure | Result     | Method   | Exposure time | Species | Source           |
|-------------------|------------|----------|---------------|---------|------------------|
| Dermal            | Irritating | OECD 439 |               |         | raw material SDS |
| Eye               | Irritating | OECD 405 |               |         | raw material SDS |

### Serious eye damage/irritation

Based on available data the classification criteria are not met. High vapour concentration will cause irritation.

2-hydroxyethyl methacrylate

| Route of exposure | Result     | Method | Exposure time | Species | Source                                      |
|-------------------|------------|--------|---------------|---------|---------------------------------------------|
| Eye               | Irritating |        | 24 hour       | Rabbit  | Draize test, Category 2 B, raw material SDS |

Ethylene dimethacrylate

| Route of exposure | Result         | Method   | Exposure time | Species | Source           |
|-------------------|----------------|----------|---------------|---------|------------------|
| Eye               | Not irritating | OECD 405 |               | Rabbit  | raw material SDS |

Methyl methacrylate

| Route of exposure | Result              | Method   | Exposure time | Species | Source           |
|-------------------|---------------------|----------|---------------|---------|------------------|
| Eye               | Slightly irritating | OECD 405 |               | Rabbit  | raw material SDS |

### Respiratory or skin sensitisation

May cause an allergic skin reaction. Repeated and/or prolonged contact may cause dermatitis.

2-hydroxyethyl methacrylate

| Route of exposure | Result      | Method | Exposure time | Species                                | Sex | Source                         |
|-------------------|-------------|--------|---------------|----------------------------------------|-----|--------------------------------|
| Dermal            | Sensitizing |        |               | Guinea-pig (Cavia aperea f. porcellus) |     | Category 1 B, raw material SDS |
| Dermal            | Sensitizing |        |               | Human                                  |     | raw material SDS               |

Ethylene dimethacrylate

| Route of exposure | Result      | Method | Exposure time | Species          | Sex | Source           |
|-------------------|-------------|--------|---------------|------------------|-----|------------------|
| Dermal            | Sensitizing |        |               | Mouse (lymphoma) |     | raw material SDS |

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### Methyl methacrylate

| Route of exposure | Result      | Method   | Exposure time | Species | Sex | Source           |
|-------------------|-------------|----------|---------------|---------|-----|------------------|
| Dermal            | Sensitizing | OECD 429 |               | Mouse   |     | raw material SDS |
| Dermal            | Sensitizing |          |               | Human   |     | raw material SDS |

Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol, 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-

| Route of exposure | Result      | Method   | Exposure time | Species | Sex | Source           |
|-------------------|-------------|----------|---------------|---------|-----|------------------|
| Dermal            | Sensitizing | OECD 429 |               |         |     | raw material SDS |

### Germ cell mutagenicity

Based on available data the classification criteria are not met.

### Methyl methacrylate

| Result   | Method   | Exposure time | Specific target organ | Species                            | Sex | Source                                                       |
|----------|----------|---------------|-----------------------|------------------------------------|-----|--------------------------------------------------------------|
| Negative | OECD 471 |               |                       | Salmonella typhimurium             |     | TA1535, 1537, 97, 98, 100, raw material SDS                  |
| Negative | OECD 478 |               |                       |                                    |     | Rodent dominant lethal test, raw material SDS                |
| Negative | OECD 474 |               |                       | mammalian erythrocyte micronucleus |     | in vivo, raw material SDS                                    |
| Positive | OECD 473 |               |                       |                                    |     | In vitro mammalian cell gene mutation test, raw material SDS |

### Carcinogenicity

Based on available data the classification criteria are not met.

### Methyl methacrylate

| Route of exposure | Parameter | Method   | Value | Result           | Species | Sex | Source           |
|-------------------|-----------|----------|-------|------------------|---------|-----|------------------|
|                   |           | OECD 451 |       | Not carcinogenic |         |     | raw material SDS |

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### Reproductive toxicity

Based on available data the classification criteria are not met. Teratogenic and fetotoxic effects only observed in presence of maternal toxicity.

Methyl methacrylate

| Effect                 | Parameter | Method   | Value        | Result | Species | Sex | Source                       |
|------------------------|-----------|----------|--------------|--------|---------|-----|------------------------------|
| Effects on fertility   | NOAEC     | OECD 414 | >2028 ppm    |        | Rat     |     | inhalation, raw material SDS |
| Developmental toxicity | NOAEL     |          | 450 mg/kg bw |        | Rabbit  |     | oral, raw material SDS       |

### Toxicity for specific target organ - single exposure

May cause respiratory irritation.

Ethylene dimethacrylate

| Route of exposure | Parameter | Value | Result     | Species | Sex | Source           |
|-------------------|-----------|-------|------------|---------|-----|------------------|
| Inhalation        |           |       | Irritating |         |     | raw material SDS |

### Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

Repeated exposure to high levels produces adverse effects on the heart, lungs, liver and kidneys.

Repeated exposure of animals by inhalation to levels at or above the occupational exposure level produces adverse effects on the nasal epithelium (levels of 100 and 400 ppm).

There is no reason to believe that methyl methacrylate represents a carcinogenic or mutagenic hazard to man based upon evidence from well conducted animal studies, relevant mutagenicity studies and adequate epidemiology studies in relevant cohorts.

Recent studies in animals have shown that high exposures do not produce embryo or foetotoxic nor teratogenic effects in the presence of maternal toxicity.

Methyl methacrylate

| Route of exposure | Parameter | Method   | Value     | Exposure time | Result | Species | Sex | Source           |
|-------------------|-----------|----------|-----------|---------------|--------|---------|-----|------------------|
| Oral              | NOEL      |          | >2000 ppm | 104 week      |        | Rat     |     | raw material SDS |
| Inhalation        | NOAEC     | OECD 453 | 100 ppm   | 104 week      |        | Rat     |     | raw material SDS |
| Inhalation        | NOAEC     | OECD 412 | 1000 ppm  | 14 week       |        | Mouse   |     | raw material SDS |

### Repeated dose toxicity

2-hydroxyethyl methacrylate

| Route of exposure | Parameter | Result    | Value     | Exposure time | Species | Sex | Source           |
|-------------------|-----------|-----------|-----------|---------------|---------|-----|------------------|
| Oral              | NOAEL     | No effect | 100 mg/kg | 7 week        | Rat     |     | raw material SDS |

### Aspiration hazard

Based on available data the classification criteria are not met.

### 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.

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### SECTION 12: Ecological information

#### 12.1. Toxicity

##### Acute toxicity

2-hydroxyethyl methacrylate

| Parameter        | Method   | Value      | Exposure time | Species                                  | Environment | Value determination | Source           |
|------------------|----------|------------|---------------|------------------------------------------|-------------|---------------------|------------------|
| LC <sub>50</sub> | OECD 203 | >100 mg/l  | 96 hour       | Fishes (Oryzias latipes)                 |             |                     | raw material SDS |
| EC <sub>50</sub> | OECD 202 | 380 mg/l   | 48 hour       | Daphnia (Daphnia magna)                  |             |                     | raw material SDS |
| EC <sub>50</sub> | OECD 201 | 836 mg/l   | 72 hour       | Algae (Selenastrum capricornutum)        |             |                     | raw material SDS |
| EC <sub>50</sub> |          | >3000 mg/l | 16 hour       | Microorganisms (Pseudomonas fluorescens) |             |                     | raw material SDS |
| NOEC             | OECD 201 | 400 mg/l   | 72 hour       | Algae (Selenastrum capricornutum)        |             |                     | raw material SDS |

Ethylene dimethacrylate

| Parameter        | Method   | Value      | Exposure time | Species                             | Environment | Value determination | Source           |
|------------------|----------|------------|---------------|-------------------------------------|-------------|---------------------|------------------|
| LC <sub>50</sub> | OECD 203 | 15.95 mg/l | 96 hour       | Fishes (Oncorhynchus mykiss)        |             |                     | raw material SDS |
| EC <sub>50</sub> | OECD 202 | 44.9 mg/l  | 48 hour       | Daphnia (Daphnia magna)             |             |                     | raw material SDS |
| EC <sub>50</sub> | OECD 201 | 17.3 mg/l  | 72 hour       | Algae (Selenastrum capricornutum)   |             |                     | raw material SDS |
| EC <sub>50</sub> | OECD 209 | 570 mg/l   | 3 hour        | Microorganisms (Pseudomonas putida) |             |                     | raw material SDS |

Methyl methacrylate

| Parameter        | Method | Value     | Exposure time | Species                           | Environment | Value determination | Source           |
|------------------|--------|-----------|---------------|-----------------------------------|-------------|---------------------|------------------|
| LC <sub>50</sub> |        | >100 mg/l |               | Fishes                            |             |                     | raw material SDS |
| LC <sub>50</sub> |        | 130 mg/l  | 96 hour       | Fishes (Fathead minnow)           |             | Static system       | raw material SDS |
| EC <sub>50</sub> |        | 69 mg/l   | 48 hour       | Daphnia (Daphnia magna)           |             |                     | raw material SDS |
| EC <sub>50</sub> |        | 170 mg/l  | 96 hour       | Algae (Selenastrum capricornutum) |             |                     | raw material SDS |

Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol, 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-

| Parameter        | Method   | Value     | Exposure time | Species                      | Environment | Value determination | Source           |
|------------------|----------|-----------|---------------|------------------------------|-------------|---------------------|------------------|
| LC <sub>50</sub> | OECD 203 | >100 mg/l | 96 hour       | Fishes (Oncorhynchus mykiss) |             |                     | raw material SDS |

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Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol, 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-

| Parameter        | Method   | Value     | Exposure time | Species                           | Environment | Value determination | Source           |
|------------------|----------|-----------|---------------|-----------------------------------|-------------|---------------------|------------------|
| EC <sub>50</sub> | OECD 202 | 48 mg/l   | 48 hour       | Daphnia (Daphnia magna)           |             |                     | raw material SDS |
| EC <sub>50</sub> | OECD 201 | >100 mg/l |               | Algae (Selenastrum capricornutum) |             |                     | raw material SDS |

### Chronic toxicity

2-hydroxyethyl methacrylate

| Parameter | Method   | Value     | Exposure time | Species                 | Environment | Source           |
|-----------|----------|-----------|---------------|-------------------------|-------------|------------------|
| NOEC      | OECD 202 | 24.1 mg/l | 21 day        | Daphnia (Daphnia magna) |             | raw material SDS |

Ethylene dimethacrylate

| Parameter | Method   | Value     | Exposure time | Species                 | Environment | Source           |
|-----------|----------|-----------|---------------|-------------------------|-------------|------------------|
| NOEC      | OECD 211 | 5.05 mg/l | 21 day        | Daphnia (Daphnia magna) |             | raw material SDS |

Methyl methacrylate

| Parameter | Method | Value    | Exposure time | Species             | Environment | Source           |
|-----------|--------|----------|---------------|---------------------|-------------|------------------|
| NOEC      |        | 8.4 mg/l | 35 day        | Fishes (Zebra fish) |             | raw material SDS |

## 12.2. Persistence and degradability

### Biodegradability

Methyl methacrylate

| Parameter   | Method | Value | Exposure time | Environment | Result               | Source           |
|-------------|--------|-------|---------------|-------------|----------------------|------------------|
|             |        |       |               |             | Easily biodegradable | raw material SDS |
| COD         |        | 88 %  | 28 day        |             |                      | raw material SDS |
| DOC removal |        | >95 % | 28 day        |             |                      | raw material SDS |

Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol, 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-

| Parameter | Method    | Value     | Exposure time | Environment | Result               | Source           |
|-----------|-----------|-----------|---------------|-------------|----------------------|------------------|
|           | OECD 301B | >100 mg/l | 96 hour       |             | Hardly biodegradable | raw material SDS |

Readily biodegradable.

## 12.3. Bioaccumulative potential

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Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol, 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-

| Parameter | Method   | Value | Exposure time | Species | Environment | Temperature [°C] | Source           |
|-----------|----------|-------|---------------|---------|-------------|------------------|------------------|
| Log Kow   | OECD 117 | 2.17  |               |         |             |                  | raw material SDS |

The product has low potential for bioaccumulation.

### 12.4. Mobility in soil

Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol, 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-

| Parameter | Method   | Value | Environment | Temperature | Source           |
|-----------|----------|-------|-------------|-------------|------------------|
| Log Koc   | OECD 122 | 2.33  |             | 20°C        | raw material SDS |

The product is predicted to have high mobility in soil.

### 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

Producer Responsibility Obligations (Packaging Waste) Regulations 2007 (S.I. No. 871 of 2007). 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.

## SECTION 14: Transport information

### 14.1. UN number or ID number

UN 1247

### 14.2. UN proper shipping name

METHYL METHACRYLATE MONOMER, STABILIZED

### 14.3. Transport hazard class(es)

3 Flammable liquids

### 14.4. Packing group

II - substances presenting medium danger

### 14.5. Environmental hazards

not relevant

### 14.6. Special precautions for user

Always transport closed containers in the upright position. Make sure that the person transporting the product knows the ways of handling the product in the event of accident. Reference in the Sections 4 to 8.

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

not relevant

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### Additional information

Hazard identification No.

339

UN number

1247

Classification code

F1

Safety signs

3



### Road transport - ADR

Special provisions 386

Limited quantities 1 L

Excepted quantities E2

#### Packaging

Packing instructions P001, IBC02, R001

Mixed packing provisions MP19

#### Portable tanks and bulk containers

Guidelines T4

Special provisions TP1

#### ADR tank

Tank code LGBF

Vehicles for tank carriage FL

Transport category 2

Tunnel restriction code (D/E)

#### Special provision for

packages V8

operation S2, S4, S20

### Railway transport - RID

Special provisions 386

Excepted quantities E2

#### Packaging

Packing instructions P001, IBC02, R001

Mixed packing provisions MP19

#### Portable tanks and bulk containers

Guidelines T4

Special provisions TP1

#### RID Tanks

Tank code LGBF

Transport category 0

#### Special provision for

packages W 8

### Air transport - ICAO/IATA

Packaging instructions for limited amount Y341

Packaging instructions passenger 353

Cargo packaging instructions 364

### Marine transport - IMDG

EmS (emergency plan) F-E, S-D



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### SECTION 15: Regulatory information

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

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 as amended. Environmental Protection Act 1990 as amended.

Clean Air Act 1993 as amended.

Public health act 1961.

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.

Product is a medical device class IIa according to the Medical Device Regulation MDR 2017/745.

#### 15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

### SECTION 16: Other information

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

|      |                                                    |
|------|----------------------------------------------------|
| H225 | Highly flammable liquid and vapour.                |
| H302 | Harmful if swallowed.                              |
| H315 | Causes skin irritation.                            |
| H317 | May cause an allergic skin reaction.               |
| H318 | Causes serious eye damage.                         |
| H319 | Causes serious eye irritation.                     |
| H335 | May cause respiratory irritation.                  |
| H412 | Harmful to aquatic life with long lasting effects. |

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

|                |                                                                                                        |
|----------------|--------------------------------------------------------------------------------------------------------|
| P210           | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.<br>No smoking.      |
| P261           | Avoid breathing dust/fume/gas/mist/vapours/spray.                                                      |
| P280           | Wear protective gloves/protective clothing/eye protection/face protection.                             |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. |
| P501           | Dispose of contents/container to in accordance with local/regional/national/international regulations. |
| P262           | Do not get in eyes, on skin, or on clothing.                                                           |

#### 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 |
| DNEL             | Derived no-effect level                                                                           |
| 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                                                                                    |
| ES               | Identification code for each substance listed in EINECS                                           |
| EU               | European Union                                                                                    |
| EuPCS            | European Product Categorisation System                                                            |
| HOS              | Volatile organic compounds                                                                        |

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|                  |                                                                                                   |
|------------------|---------------------------------------------------------------------------------------------------|
| 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                                                            |
| INCI             | International Nomenclature of Cosmetic Ingredients                                                |
| ISO              | International Organization for Standardization                                                    |
| IUPAC            | International Union of Pure and Applied Chemistry                                                 |
| 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 Kow          | Octanol-water partition coefficient                                                               |
| MARPOL           | International Convention for the Prevention of Pollution from Ships                               |
| NOAEC            | No observed adverse effect concentration                                                          |
| NOAEL            | No observed adverse effect level                                                                  |
| NOEC             | No observed effect concentration                                                                  |
| NOEL             | No observed effect level                                                                          |
| OEL              | Occupational Exposure Limits                                                                      |
| PBT              | Persistent, Bioaccumulative and Toxic                                                             |
| PNEC             | Predicted no-effect concentration                                                                 |
| 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  |
| vPvB             | Very Persistent and very Bioaccumulative                                                          |
| Acute Tox.       | Acute toxicity                                                                                    |
| Aquatic Chronic  | Hazardous to the aquatic environment (chronic)                                                    |
| Eye Dam.         | Serious eye damage                                                                                |
| Eye Irrit.       | Eye irritation                                                                                    |
| Flam. Liq.       | Flammable liquid                                                                                  |
| Skin Irrit.      | Skin irritation                                                                                   |
| Skin Sens.       | Skin sensitization                                                                                |
| STOT SE          | Specific target organ toxicity - single exposure                                                  |

### 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.

### The changes (which information has been added, deleted or modified)

The version 3.0 replaces the SDS version from 14.05.2021.

Changes were made in sections:

- 2.3 Other hazards,
- 3.2 Mixtures - content in % weight,
- 11.2 Information on other hazards,
- 12.6 Endocrine disrupting properties and
- 16 Other information.

### More information

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Classification procedure - calculation method.

Safety data sheets created by CHEM CONSULTING s.p. ([www.chem-consulting.si](http://www.chem-consulting.si))

### 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.