

**Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated**

Version number: GHS 2.0  
Replaces version of: 2019-10-17 (GHS 1)

Revision: 2019-10-21

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

**1.1 Product identifier**

Identification of the substance **Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy-Ethane-1,2-diol, ethoxylated**  
 Registration number (REACH) this information is not available  
 CAS number 25322-68-3  
 Article number A0273358

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

Relevant identified uses General use

**1.3 Details of the supplier of the safety data sheet**

Chemos GmbH & Co. KG  
 Sonnenring 7  
 84032 Altdorf  
 Germany  
  
 Telephone: +49 871-966346-0  
 Telefax: +49 871-966346-13  
 e-mail: chemos@chemos.de  
 Website: <http://www.chemos.de/>

e-mail (competent person) chemos@chemos.de

**1.4 Emergency telephone number**

Emergency information service +49 89 1 92 40

| Poison centre  |   |                      |                   |         |
|----------------|---|----------------------|-------------------|---------|
| Country        | Name  | Postal code/<br>city | Telephone         | Telefax |
| United Kingdom | National Poison Information Centre<br>Medical Toxicology Unit | SE14 5ER Lon-<br>don | +44 171 635 91 91 |         |

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008 (CLP)  
 This substance does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

**2.2 Label elements**

Labelling according to Regulation (EC) No 1272/2008 (CLP)  
 not required

**2.3 Other hazards**

Results of PBT and vPvB assessment  
 According to the results of its assessment, this substance is not a PBT or a vPvB.

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**SECTION 3: Composition/information on ingredients****3.1 Substances**

|                   |  |
|-------------------|--|
| Name of substance | Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated |
| Identifiers       |  |
| CAS No            | 25322-68-3   |
| EC No             | 500-038-2  |

**SECTION 4: First aid measures****4.1 Description of first aid measures**

## General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

## Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

## Following skin contact

Wash with plenty of soap and water.

## Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

## Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

**4.2 Most important symptoms and effects, both acute and delayed**

Symptoms and effects are not known to date.

**4.3 Indication of any immediate medical attention and special treatment needed**

none

**SECTION 5: Firefighting measures****5.1 Extinguishing media**

## Suitable extinguishing media

Water, Foam, Alcohol resistant foam, ABC-powder

## Unsuitable extinguishing media

Water jet

**5.2 Special hazards arising from the substance or mixture**

## Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

**5.3 Advice for firefighters**

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

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**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

**6.2 Environmental precautions**

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

**6.3 Methods and material for containment and cleaning up**

Advice on how to contain a spill

Covering of drains, Take up mechanically

Advice on how to clean up a spill

Take up mechanically.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

**6.4 Reference to other sections**

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas. Ground/bond container and receiving equipment.

- Specific notes/details

Dust deposits may accumulate on all deposition surfaces in a technical room. The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

**7.2 Conditions for safe storage, including any incompatibilities**

Managing of associated risks

- Explosive atmospheres

Removal of dust deposits.

- Packaging compatibilities

Only packagings which are approved (e.g. acc. to ADR) may be used.

**7.3 Specific end use(s)**

See section 16 for a general overview.

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**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

This information is not available.

**Human health values**

| Relevant DNELs and other threshold levels |                        |                                    |                   |                            |
|---|------------------------|------------------------------------|-------------------|----------------------------|
| Endpoint                                  | Threshold level        | Protection goal, route of exposure | Used in           | Exposure time              |
| DNEL                                      | 40.2 mg/m <sup>3</sup> | human, inhalatory                  | worker (industry) | chronic - systemic effects |
| DNEL                                      | 112 mg/kg bw/day       | human, dermal                      | worker (industry) | chronic - systemic effects |

**Environmental values**

| Relevant PNECs and other threshold levels |                 |                       |                           |                              |
|---|-----------------|-----------------------|---------------------------|------------------------------|
| Endpoint                                  | Threshold level | Organism              | Environmental compartment | Exposure time                |
| PNEC                                      | 0.273 g/l       | aquatic organisms     | freshwater                | short-term (single instance) |
| PNEC                                      | 27.3 mg/l       | aquatic organisms     | marine water              | short-term (single instance) |
| PNEC                                      | 1,030 mg/kg     | aquatic organisms     | freshwater sediment       | short-term (single instance) |
| PNEC                                      | 103 mg/kg       | aquatic organisms     | marine sediment           | short-term (single instance) |
| PNEC                                      | 46.4 mg/kg      | terrestrial organisms | soil                      | short-term (single instance) |

**8.2 Exposure controls**

**Appropriate engineering controls**

General ventilation.

**Individual protection measures (personal protective equipment)**

**Eye/face protection**

Wear eye/face protection.

**Skin protection**

- Hand protection

Wear protective gloves.

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

**Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

**Environmental exposure controls**

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

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**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

**Appearance**

|                |                |
|----------------|----------------|
| Physical state | solid (flakes) |
| Colour         | colourless     |
| Odour          | characteristic |

**Other safety parameters**

|   |   |
|---|---|
| pH (value)                              | not applicable  |
| Melting point/freezing point            | <-14.08 °C at 973.5 hPa                                   |
| Initial boiling point and boiling range | 205.7 °C at 977.6 hPa                                     |
| Flash point                             | 138.6 °C at 976.4 hPa                                     |
| Evaporation rate                        | not determined  |
| Flammability (solid, gas)               | this material is combustible, but will not ignite readily |
| Explosion limits of dust clouds         | not determined  |
| Vapour pressure                         | <0.1 Pa at 20 °C  |
| Density                                 | 1.116 g/cm <sup>3</sup> at 20 °C                          |
| Vapour density                          | this information is not available                         |

**Solubility(ies)**

|                    |                    |
|--------------------|--------------------|
| - Water solubility | 256.1 g/l at 25 °C |
|--------------------|--------------------|

**Partition coefficient**

|                                       |                                   |
|---------------------------------------|-----------------------------------|
| - n-octanol/water (log KOW)           | this information is not available |
| - Soil organic carbon/water (log KOC) | 1.857 (ECHA)                      |

|                           |  |
|---------------------------|--|
| Auto-ignition temperature |  |
|---------------------------|--|

**Viscosity**

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|                       |                                   |
|-----------------------|-----------------------------------|
| - Kinematic viscosity | 259.7 mm <sup>2</sup> /s at 20 °C |
| - Dynamic viscosity   | 289.9 mPa s at 20 °C              |
| Explosive properties  | none                              |
| Oxidising properties  | none                              |

**9.2 Other information**

|                 |                          |
|-----------------|--------------------------|
| Surface tension | 44.5 mN/m (25 °C) (ECHA) |
| Solvent content | 100 %                    |
| Solid content   | 100 %                    |

**SECTION 10: Stability and reactivity**

**10.1 Reactivity**

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

**10.2 Chemical stability**

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

**10.3 Possibility of hazardous reactions**

No known hazardous reactions.

**10.4 Conditions to avoid**

There are no specific conditions known which have to be avoided.

Hints to prevent fire or explosion

The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

**10.5 Incompatible materials**

Oxidisers

**10.6 Hazardous decomposition products**

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

**SECTION 11: Toxicological information**

**11.1 Information on toxicological effects**

**Classification according to GHS (1272/2008/EC, CLP)**

This substance does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

Acute toxicity

Shall not be classified as acutely toxic.

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

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- Serious eye damage/eye irritation  
Shall not be classified as seriously damaging to the eye or eye irritant.
- Respiratory or skin sensitisation  
Shall not be classified as a respiratory or skin sensitiser.
- Germ cell mutagenicity  
Shall not be classified as germ cell mutagenic.
- Carcinogenicity  
Shall not be classified as carcinogenic.
- Reproductive toxicity  
Shall not be classified as a reproductive toxicant.
- Specific target organ toxicity - single exposure  
Shall not be classified as a specific target organ toxicant (single exposure).
- Specific target organ toxicity - repeated exposure  
Shall not be classified as a specific target organ toxicant (repeated exposure).
- Aspiration hazard  
Shall not be classified as presenting an aspiration hazard.

**SECTION 12: Ecological information**

**12.1 Toxicity**

Shall not be classified as hazardous to the aquatic environment.

**Biodegradation**

The substance is readily biodegradable. The relevant substances of the mixture are readily biodegradable.

**12.2 Persistence and degradability**

| Process of degradability |                  |      |
|--------------------------|------------------|------|
| Process                  | Degradation rate | Time |
| oxygen depletion         | 74.85 %          | 28 d |

**12.3 Bioaccumulative potential**

Data are not available.

|     |              |
|-----|--------------|
| BCF | 3.162 (ECHA) |
|-----|--------------|

**12.4 Mobility in soil**

|  |              |
|--|--------------|
| The Organic Carbon normalised adsorption coefficient | 1.857 (ECHA) |
|--|--------------|

**12.5 Results of PBT and vPvB assessment**

Data are not available.

**12.6 Other adverse effects**

Data are not available.

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**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

**Remarks**

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

**SECTION 14: Transport information**

- 14.1 UN number** not assigned
- 14.2 UN proper shipping name** not assigned
- 14.3 Transport hazard class(es)** not assigned
- 14.4 Packing group** not assigned to a packing group
- 14.5 Environmental hazards** non-environmentally hazardous acc. to the dangerous goods regulations
- 14.6 Special precautions for user**  
Provisions for dangerous goods (ADR) should be complied within the premises.
- 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code**  
The cargo is not intended to be carried in bulk.

**Information for each of the UN Model Regulations**

**Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)**

not assigned

**International Maritime Dangerous Goods Code (IMDG)**

not assigned

**International Civil Aviation Organization (ICAO-IATA/DGR)**

not assigned

**SECTION 15: Regulatory information**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- Relevant provisions of the European Union (EU)**
- Deco-Paint Directive (2004/42/EC)**

|             |       |
|-------------|-------|
| VOC content | 100 % |
|-------------|-------|

**Directive on industrial emissions (VOCs, 2010/75/EU)**

|             |       |
|-------------|-------|
| VOC content | 100 % |
|-------------|-------|



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**15.2 Chemical Safety Assessment**

No Chemical Safety Assessment has been carried out for this substance.

**SECTION 16: Other information**
**Indication of changes (revised safety data sheet)**

| Section | Former entry (text/value)  | Actual entry (text/value)   | Safety-relevant |
|---------|--|---|-----------------|
| 5.1     | Suitable extinguishing media:<br>Water spray, Alcohol resistant foam, BC-powder, Carbon dioxide (CO <sub>2</sub> )   | Suitable extinguishing media:<br>Water, Foam, Alcohol resistant foam, ABC-powder  | yes             |
| 6.3     | Advice on how to contain a spill:<br>Covering of drains  | Advice on how to contain a spill:<br>Covering of drains, Take up mechanically   | yes             |
| 6.3     | Advice on how to clean up a spill:<br>Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder   | Advice on how to clean up a spill:<br>Take up mechanically.   | yes             |
| 6.3     | Appropriate containment techniques:<br>Use of adsorbent materials.   |   | yes             |
| 7.1     | - Measures to prevent fire as well as aerosol and dust generation:<br>Use local and general ventilation. Use only in well-ventilated areas.  | - Measures to prevent fire as well as aerosol and dust generation:<br>Use local and general ventilation. Use only in well-ventilated areas. Ground/bond container and receiving equipment.  | yes             |
| 7.1     |  | Specific notes/details:<br>Dust deposits may accumulate on all deposition surfaces in a technical room. The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion. | yes             |
| 7.2     |  | Managing of associated risks  | yes             |
| 7.2     |  | - Explosive atmospheres:<br>Removal of dust deposits.   | yes             |
| 8.2     | Hand protection:<br>Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. | Hand protection:<br>Wear protective gloves.   | yes             |
| 9.1     | Physical state:<br>liquid  | Physical state:<br>solid (flakes)   | yes             |
| 9.1     | pH (value):<br>not determined  | pH (value):<br>not applicable   | yes             |
| 9.1     | Flammability (solid, gas):<br>not relevant, (fluid)  | Flammability (solid, gas):<br>this material is combustible, but will not ignite readily   | yes             |
| 9.1     | Explosive limits:<br>not determined  |   | yes             |
| 9.1     |  | Explosion limits of dust clouds:<br>not determined  | yes             |
| 9.1     | Auto-ignition temperature:<br>360 °C (ECHA)  | Auto-ignition temperature   | yes             |

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| Section | Former entry (text/value) | Actual entry (text/value)  | Safety-relevant |
|---------|---------------------------|--|-----------------|
| 9.2     |                           | Solid content:<br>100 %  | yes             |
| 10.4    |                           | Hints to prevent fire or explosion:<br>The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion. | yes             |

### Abbreviations and acronyms

| Abbr.    | Descriptions of used abbreviations  |
|----------|---|
| ADN      | Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways) |
| ADR      | Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)                                       |
| BCF      | Bioconcentration factor   |
| CAS      | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)  |
| CLP      | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures  |
| DGR      | Dangerous Goods Regulations (see IATA/DGR)  |
| DNEL     | Derived No-Effect Level   |
| EC No    | The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)                                     |
| EINECS   | European Inventory of Existing Commercial Chemical Substances   |
| ELINCS   | European List of Notified Chemical Substances   |
| GHS      | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations   |
| IATA     | International Air Transport Association   |
| IATA/DGR | Dangerous Goods Regulations (DGR) for the air transport (IATA)  |
| ICAO     | International Civil Aviation Organization   |
| IMDG     | International Maritime Dangerous Goods Code   |
| MARPOL   | International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")   |
| NLP      | No-Longer Polymer   |
| PBT      | Persistent, Bioaccumulative and Toxic   |
| PNEC     | Predicted No-Effect Concentration   |
| REACH    | Registration, Evaluation, Authorisation and Restriction of Chemicals  |
| RID      | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)   |
| VOC      | Volatile Organic Compounds  |
| vPvB     | Very Persistent and very Bioaccumulative  |

### Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

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Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.