

Information Safety data sheet
according to 1907/2006/EC (Article 32) and subsequent amendments

Printing date 06.12.2022

Version number 5 (replaces version 4)

Revision: 06.12.2022

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

- 1.1 Product identifier

- Trade name: **POLYETHYLENEGLYCOL 400 TEC.**

- Chemical Identification: Poly(oxy-1,2-ethanediyl), α -hydro- ω -hydroxy- Ethane-1,2-diol, ethoxylated

- Article number: MP 018572

- CAS Number:

25322-68-3

- NLP Number:

500-038-2

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

- Application of the substance / the mixture

Solvent

Plasticiser

Use in Cleaning Agents.

Chemical industry.

Textile industry

Manufacture of rubber product.

Metal working

- 1.3 Details of the supplier of the safety data sheet

- Manufacturer/Supplier:

ECSA Chemicals AG

Via Luigi Favre 16 - CH-6828 Balerna (Chiasso); Burgauerstrasse 17 - CH-9230 Flawil (SG) tel.+41 58 211 91 00

- fax +41 58 211 91 01

ECSA Maintenance AG

Burgauerstrasse 17 - CH-9230 Flawil (SG) tel.+41 58 211 93 00 - fax +41 58 211 93 01

ECSA Energy SA

Via Luigi Favre 16 - CH-6828 Balerna (Chiasso) tel.+41 58 211 95 00 - fax +41 58 211 95 01

ECSA ITALIA Srl Società con Unico Socio

Via Lav. Autobianchi 1 - I-20832 Desio (MB) tel. +39 0362 625 421 – fax +39 0362 304 361

- Informing department: Product safety department: quality@ecsa.ch

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture

- Classification according to Regulation (EC) No 1272/2008

The substance is not classified, according to the CLP regulation.

- 2.2 Label elements

- Labelling according to Regulation (EC) No 1272/2008 Void

- Hazard pictograms Void

- Signal word Void

- Hazard statements Void

- 2.3 Other hazards

- Results of PBT and vPvB assessment

- PBT: Not applicable.

- vPvB: Not applicable.

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SECTION 3: Composition/information on ingredients

- **3.1 Substances**
- **CAS No. Designation:**
25322-68-3 POLYETHYLENEGLYCOL
(Poly(oxy-1,2-ethanediyl), α -hydro- ω -hydroxy- Ethane-1,2-diol, ethoxylated)
- **Identification number(s):**
- **NLP Number:** 500-038-2

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information** Personal protection for the First Aider.
- **After inhalation**
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.



In case of unconsciousness bring patient into stable side position for transport.

- **After skin contact**
The product is not skin irritating.
Remove contaminated clothing.
Instantly rinse with water.
If the skin is irritated, consult a doctor.
- **After eye contact**
Remove contact lenses, if present and easy to do.
Rinse opened eye for at least 15 minutes under running water; then consult doctor.
- **After swallowing**
Do not induce vomiting;
In case of persistent symptoms consult doctor.
If the person is conscious, wash out mouth with water.
- **4.2 Most important symptoms and effects, both acute and delayed**
Eye irritation
Stomach pain
- **4.3 Indication of any immediate medical attention and special treatment needed** Treat symptomatically.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**
Water haze
Foam
- **5.2 Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
Carbon oxides (COx)
- **5.3 Advice for firefighters**
- **Protective equipment:**
Do not inhale explosion gases or combustion gases.
Wear self-contained breathing apparatus.
Wear full protective suit.
- **Additional information**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

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SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures

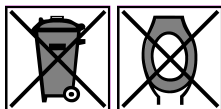
Particular danger of slipping on leaked/spilled product.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

- 6.2 Environmental precautions: Do not allow to enter drainage system, surface or ground water.

- 6.3 Methods and material for containment and cleaning up:



Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Collect mechanically.

Send for recovery or disposal in suitable containers.

Dispose of the material collected according to regulations.

- 6.4 Reference to other sections

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Open and handle container with care.

- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.

- 7.2 Conditions for safe storage, including any incompatibilities

- Storage

- Requirements to be met by storerooms and containers:

Store in original container.

Store in cool location.

Store in closed containers.

- Information about storage in one common storage facility:

Incompatible products:

strong oxidizing agents

acids

bases

- Further information about storage conditions:

Store under dry conditions.

Protect from humidity and keep away from water.

Caution when reopening containers with broken seal.

- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- 8.1 Control parameters

- Components with limit values that require monitoring at the workplace: Not required.

- 8.2 Exposure controls

Appropriate engineering controls:

Ensure good ventilation in the workplace

- Appropriate engineering controls No further data; see item 7.

- Individual protection measures, such as personal protective equipment

- General protective and hygienic measures

The usual precautionary measures should be adhered to general rules for handling chemicals.

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Take off immediately all contaminated clothing

Avoid contact with the eyes and skin.

Wash hands during breaks and at the end of the work.

Do not eat, drink or smoke while working.

- Breathing equipment:

Use breathing protection in case of insufficient ventilation.

Filter: ABEK (EU EN 14387)

- Hand protection

Protective gloves.

Chemical resistant gloves (EN 374)

- Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

- Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- Eye/face protection

Safety glasses

Equipment should conform to EN 166.

- Body protection:

Use protective suit.

Safety shoes.

- Environmental exposure controls Do not discharge into the drains/surface waters/groundwater*** SECTION 9: Physical and chemical properties****- 9.1 Information on basic physical and chemical properties****- Appearance:****- Form:**

Fluid

- Colour:

colourless to pale yellow

- Odour:

Light

- Odour threshold:

Not determined.

- Melting point/freezing point:

4-8 °C

- Boiling point or initial boiling point and boiling range

>200 °C

- Flammability

Not determined.

- Lower and upper explosion limit**- Lower:**

Not determined.

- Upper:

Not determined.

- Flash point:

200 °C

- Ignition temperature:

> 360 °C

- Decomposition temperature:

> 200 °C

- pH

4.5-7.0 (5%)

- Viscosity:**- Kinematic viscosity**

Not determined.

- dynamic at 100 °C:

0.007995-0.008558 Pa.s

- Solubility**- Water:**

Soluble

- Partition coefficient n-octanol/water (log value) at 30 °C

-0.698 log Kow (OECD 107)

- Vapour pressure at 20 °C:

< 0.01 hPa

- Density and/or relative density**- Relative density**

1.126

- Vapour density

Not determined.

- Relative gas density

> 1

- 9.2 Other information**- Important information on protection of health and environment, and on safety.****- Explosive properties:**

Product is not explosive.

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- Change in condition	
- Softening point/range	
- Oxidising properties	Not determined
- Evaporation rate	Not determined.
- Information with regard to physical hazard classes	
- Explosives	Void
- Flammable gases	Void
- Aerosols	Void
- Oxidising gases	Void
- Gases under pressure	Void
- Flammable liquids	Void
- Flammable solids	Void
- Self-reactive substances and mixtures	Void
- Pyrophoric liquids	Void
- Pyrophoric solids	Void
- Self-heating substances and mixtures	Void
- Substances and mixtures, which emit flammable gases in contact with water	Void
- Oxidising liquids	Void
- Oxidising solids	Void
- Organic peroxides	Void
- Corrosive to metals	Void
- Desensitised explosives	Void

SECTION 10: Stability and reactivity

- **10.1 Reactivity** See "Possibility of hazardous reactions"
- **10.2 Chemical stability** Stable under normal condition of use
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** Reacts with oxidizing agents
- **10.4 Conditions to avoid**
Heat and ignition sources
Sunlight
- **10.5 Incompatible materials:**
strong oxidizing agents
strong acids
alkaline substances
- **10.6 Hazardous decomposition products:**
Formation of toxic gases is possible during heating or in case of fire.
Carbon oxides (COx)

* SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

- **LD/LC50 values that are relevant for classification:**

25322-68-3 POLYETHYLENEGLYCOL

Oral	LD50	>2,000 mg/kg (rat) (OECD 423)
Dermal	LD50	>2,000 mg/kg (rat) (OECD 402)

- **Skin corrosion/irritation**
Generally the product does not irritate the skin.
Test on rabbit.
OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

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- Serious eye damage/irritation

Usually does not cause irritant effects to eyes.

Test on rabbit

OECD Guideline 405 (Acute Eye Irritation / Corrosion)

- Respiratory or skin sensitisation Not sensitizing for skin.**- Germ cell mutagenicity** Based on available data, the classification criteria are not met.**- Carcinogenicity** Based on available data, the classification criteria are not met.**- Reproductive toxicity** Based on available data, the classification criteria are not met.**- STOT-single exposure** Based on available data, the classification criteria are not met.**- STOT-repeated exposure** Based on available data, the classification criteria are not met.**- Aspiration hazard** Based on available data, the classification criteria are not met.**- Additional toxicological information:****- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

No mutagenic activity has been shown

Bacteria Reverse Mutation Test ; Results: negative (OECD 471)

In vitro Mammalian Cell Gene Mutation test: negative (OECD 476)

- 11.2 Information on other hazards**- Endocrine disrupting properties**

Substance is not listed.

*** SECTION 12: Ecological information****- 12.1 Toxicity****- Aquatic toxicity:****25322-68-3 POLYETHYLENEGLYCOL**

LC50/96h >100 mg/l (poecilia reticulata) (OECD 203)

LC50/48 h >100 mg/l (daphnia) (OECD 202)

- 12.2 Persistence and degradability

The product is biodegradable.

Degradation: 74.85% 28 day (OECD 301 D)

- 12.3 Bioaccumulative potential

Log KOW: -0.698 30°C (OECD 107)

Less bioaccumulative

- 12.4 Mobility in soil

Log Koc 1.857 (OECD 121)

moderate mobility in soil

- 12.5 Results of PBT and vPvB assessment**- PBT:** Not applicable.**- vPvB:** Not applicable.**- 12.6 Endocrine disrupting properties** The product does not contain substances with endocrine disrupting properties.**- 12.7 Other adverse effects****- Additional ecological information:****- General notes:**

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

SECTION 13: Disposal considerations**- 13.1 Waste treatment methods****- Recommendation**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Disposal must be made according to official regulations.

- Waste disposal key number: HP 15 Reg.1357/2014/UE

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- Uncleaned packagings:**- Recommendation:**

Non contaminated packagings can be reused.

Packagings that cannot be cleaned are to be disposed of in the same manner as the product.

Disposal must be made according to official regulations.

SECTION 14: Transport information

- 14.1 UN number or ID number - ADR, ADN, IMDG, IATA	Void
- 14.2 UN proper shipping name - ADR, ADN, IMDG, IATA	Void
- 14.3 Transport hazard class(es) - ADR, ADN, IMDG, IATA - Class	Void
- 14.4 Packing group - ADR, IMDG, IATA	Void
- 14.5 Environmental hazards: - Marine pollutant:	No
- 14.6 Special precautions for user	Not applicable.
- 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
- UN "Model Regulation":	Void

* SECTION 15: Regulatory information

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

Regulation (EC) n° 1907/2006

Regulation (EC) n° 1272/2008

Regulation (EC) n° 830/2015

Regulation (EC) n° 487/2013

Regulation (EC) n° 878/2020

OPChim 813.11

Authorization in accordance with REACH regulation (CE n. 1907/2006 and subsequent amendments and integration):

the product is not included in the list of substance of very high concern (SVHC) candidate for authorization.

- Directive 2012/18/EU**- Named dangerous substances - ANNEX I** Substance is not listed.**- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

Substance is not listed.

- REGULATION (EU) 2019/1148**- Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

Substance is not listed.

- Annex II - REPORTABLE EXPLOSIVES PRECURSORS

Substance is not listed.

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- Regulation (EC) No 273/2004 on drug precursors

Substance is not listed.

- Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

Substance is not listed.

- National regulations**- Water hazard class:** Water hazard class 1 (Assessment by list): slightly hazardous for water.**- 15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.**SECTION 16: Other information**

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Department issuing data specification sheet: Environment protection department.**- Contact:** quality@ecsa.ch**- Date of previous version:** 14.09.2021**- Version number of previous version:** 4**- Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

- Sources

ECHA Registered Substances Database

Regulation (EC) n° 1907/2006

Regulation (EC) n° 1272/2008

Regulation (EC) n° 487/2013

Regulation (EC) n° 830/2015

Regulation (EC) n° 878/2020

- * Data compared to the previous version altered.