

1. Identification of the substance and of the company

1.1 Product identifiers

Product name Polyethylene glycol standard

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

Identified uses Laboratory chemicals, Manufacture of substances
PSS-PEG1.5K - Polyethylene glycol standard, nominal Mw 1,500 g/mol, 1 g
PSS-PEG10K - Polyethylene glycol standard, nominal Mw 10,000 g/mol, 1 g
PSS-PEG12K - Polyethylene glycol standard, nominal Mw 12,000 g/mol, 1 g
PSS-PEG18K - Polyethylene glycol standard, nominal Mw 18,000 g/mol, 1 g
PSS-PEG1K - Polyethylene glycol standard, nominal Mw 1,000 g/mol, 1 g
PSS-PEG200 - Polyethylene glycol standard, nominal Mw 200 g/mol, 1 g
PSS-PEG22K - Polyethylene glycol standard, nominal Mw 22,000 g/mol, 1 g
PSS-PEG26K - Polyethylene glycol standard, nominal Mw 26,000 g/mol, 1 g
PSS-PEG2K - Polyethylene glycol standard, nominal Mw 2,000 g/mol, 1 g
PSS-PEG3K - Polyethylene glycol standard, nominal Mw 3,000 g/mol, 1 g
PSS-PEG42K - Polyethylene glycol standard, nominal Mw 42,000 g/mol, 1 g
PSS-PEG4K - Polyethylene glycol standard, nominal Mw 4,000 g/mol, 1 g
PSS-PEG600 - Polyethylene glycol standard, nominal Mw 600 g/mol, 1 g
PSS-PEG6K - Polyethylene glycol standard, nominal Mw 6,000 g/mol, 1 g

1.3 Details of the supplier of the safety data sheet

Company PSS Polymer Standards Service GmbH
In der Dalheimer Wiese 5
D - 55120 Mainz

Technical phone +49 6131 - 96239 - 0
Fax +49 6131 - 96239 -11
Email sds@pss-polymer.com

1.4 Emergency telephone number

24-hour emergency contact number: +1 872 5888271 (PSS)

2. Hazards identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.
This substance is not classified as dangerous according to Directive 67/548/EEC.

2.2 Label elements

The product does not need to be labelled in accordance with EC directives or respective national laws.

2.3 Other hazards

none

3. Composition/ information on ingredients

3.1 Substances

Synonyms: PEG
Formula: $[\text{HO}(\text{C}_2\text{H}_4\text{O})]_n\text{H}$
CAS-No.: 25322-68-3

4. First aid measures

4.1 Description of first aid measures

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Flush eyes with water as a precaution.

Product name: Poly(ethylene glycol)
Date Updated: 2023-01-20
Version: 1.4

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

4.3 Indication of any immediate medical attention and special treatment needed

no data available

5. Fire fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides.

Nature of decomposition products not known.

5.3 Advice for fire fighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

no data available

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing vapors, mist or gas.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7. Handling and storage

7.1 Precautions for safe handling

no data available

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Store under argon or nitrogen.

7.3 Specific end use(s)

no data available

8. Exposure controls / personal protection

8.1 Control parameters

Components with workplace control parameters

8.2 Exposure controls

Appropriate engineering controls

General industrial hygiene practice.

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves must satisfy the specifications of EU Directive 89/686/EEC and

Product name: Poly(ethylene glycol)
Date Updated: 2023-01-20
Version: 1.4

the standard EN 374 derived from it.

Body Protection

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Form: viscous to solid
Odour	no data available
Odour Threshold	no data available
pH	no data available
Melting point/freezing point	no data available
Initial boiling point and boiling range	no data available
Flash Point	no data available
Evaporation rate	no data available
Flammability	no data available
Upper/lower flammability or explosive limits	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	no data available
Partition coefficient: n- Octanol/Water	no data available
Auto ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

9.2 Other safety information

no data available

10. Stability and reactivity

10.1 Reactivity

no data available

10.2 Chemical stability

no data available

10.3 Possibility of hazardous reactions

no data available

10.4 Conditions to avoid

no data available

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

Other decomposition products - no data available

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product name: Poly(ethylene glycol)
Date Updated: 2023-01-20
Version: 1.4

LD50 Oral - rat - > 5.000 mg/kg

Skin corrosion/irritation

Serious eye damage/eye irritation

Eyes - rabbit - No eye irritation - Draize Test

Respiratory or skin sensitisation

Did not cause sensitization on laboratory animals.

guinea pig - OECD Test Guideline 406 - Did not cause sensitization on laboratory animals.

Germ cell mutagenicity

Animal testing did not show any mutagenic effects. Not mutagenic in Ames Test.

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

no data available

Potential health effects

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion May be harmful if swallowed.

Skin May be harmful if absorbed through skin. May cause skin irritation.

Eyes May cause eye irritation.

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Additional Information

RTECS: Not available

12. Ecological information

12.1 Toxicity

Toxicity to fish static test - Leuciscus idus (Golden orfe) - > 500 mg/l - 96 h
Method: DIN 38412

12.2 Persistence and degradability

Biodegradability Result: - Biodegradable

12.3 Bioaccumulative potential

Does not accumulate in organisms.

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

no data available

12.6 Other adverse effects

no data available

13. Disposal considerations

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

