

Polyethylene glycol Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 06/08/2023 Version: 1.1

| SECTION 1: Identification | |
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| 1.1. Identification | |
| Product form | : Substance |
| Trade name | : Polyethylene glycol |
| CAS-No. | : 25322-68-3 |
| Product code | : 06103 |
| Formula | : (C2H4O)nH2O |
| Synonyms | : PEG |
| 1.2. Recommended use and restriction | ons on use |
| Recommended use | : Use as laboratory reagent, Manufacture of substances |
| 1.3. Supplier | |
| Supplier Polysciences 400 Valley Road Warrington, PA 18976 - United States T +1 215 343 6484 - F +1 215 343 0214 info@polysciences.com - www.polyscience | <u>vs.com</u> |
| 1.4. Emergency telephone number | |
| Emergency number | : 24-hour emergency phone number ChemTel 1-800-255-3924 |
| SECTION 2: Hazard(s) identificati | on |
| 2.1. Classification of the substance of | |
| 3, Respiratory tract irritation 2.2. GHS Label elements, including p | sure, Category May cause respiratory irritation |
| GHS US labeling | |
| Hazard pictograms (GHS US) | |
| Signal word (GHS US) | : Warning |
| Hazard statements (GHS US) | : May cause respiratory irritation |
| Precautionary statements (GHS US) | Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell. Store in a well-ventilated place. Keep container tightly closed Store locked up. |
| 2.3. Other hazards which do not resu | ult in classification |
| No additional information available | |
| 2.4. Unknown acute toxicity (GHS US | 3) |
| Not applicable | |
| SECTION 3: Composition/Informa | ation on ingradiants |
| SECTION 5. Composition/informa | |

3.1. Substances

| Name | Product identifier | % | GHS US classification |
|--|----------------------|-------|-----------------------|
| Poly(ethylene glycol) [MW 7,500] (Main constituent) | (CAS-No.) 25322-68-3 | ≤ 100 | STOT SE 3, H335 |

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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| SECTION 4: First-aid measures 4.1. Description of first aid measures First-aid measures general : Call a poison center/doctor/physician if y oue feel unwell. First-aid measures after inhalation :: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor/physician if y oue feel unwell. First-aid measures after synchronized : Wash skin with plenty of water. First-aid measures after inposition :: Call a poison center/doctor/physician if y oue feel unwell. 4.2. Most important symptoms and effects (acute and delayed) Symptomalically. Section 5. Fire-fighting measures 5.1. Suitable cand unsuitable) extinguishing media Suitable extinguishing media : Water symptom 5.2. Specific interaction in case of : Toxic fumes may be released. rise : Call a prison center/doctor/physical symptoms. Self-contained breathing apparatus. Complete protective equipment. Self-contained proceedinos. | 3.2. Mixtures | | |
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| product. 7.2. Conditions for safe storage, including any incompatibilities | Precautions for safe handling | | |
| | Hygiene measures | | |
| Storage conditions : Store in a well-ventilated place. Keep cool. Store at 4 deg. C. | | | |
| | 7.2. Conditions for safe storage, includin | g any incompatibilities | |

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| SECTION 8: Exposure controls/personal protection | | |
|--|---------------------------------------|--|
| 8.1. Control parameters | | |
| Polyethylene glycol (25322-68-3) | | |
| USA - ACGIH - Occupational Exposure Limits | | |
| ACGIH TWA (mg/m ³) | 10 mg/m ³ | |
| USA - AIHA - Occupational Exposure Limits | | |
| WEEL TWA (mg/m ³) | 10 mg/m ³ (MW>200-aerosol) | |
| | | |

| 8.2. Appropriate engineering controls |
|---------------------------------------|
|---------------------------------------|

| Appropriate engineering controls | : Ensure good ventilation of the work station. |
|----------------------------------|--|
|----------------------------------|--|

Environmental exposure controls

: Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

| Hand protection: | |
|------------------|--|
|------------------|--|

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):



| SECTION 9: Physical and chemical properties | | |
|---|---------------------------|--|
| 9.1. Information on basic physical and ch | emical properties | |
| Physical state | : Solid | |
| Color | : No data available | |
| Odor | : No data available | |
| Odor threshold | : No data available | |
| pH | : No data available | |
| Melting point | : No data available | |
| Freezing point | : Not applicable | |
| Boiling point | : No data available | |
| Flash point | : 182 – 287 °C (open cup) | |
| Relative evaporation rate (butyl acetate=1) | : No data available | |
| Flammability (solid, gas) | : Non flammable. | |
| Vapor pressure | : < 0.01 mm Hg (at 20 °C) | |
| Relative vapor density at 20°C | : No data available | |
| Relative density | : No data available | |
| Solubility | : No data available | |
| Partition coefficient n-octanol/water (Log Pow) | : No data available | |
| Auto-ignition temperature | : Not applicable | |
| Decomposition temperature | : No data available | |
| Viscosity, kinematic | : No data available | |
| | | |

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| Viscosity, dynamic | : No data available |
|----------------------|---------------------|
| Explosion limits | : Not applicable |
| Explosive properties | : No data available |
| Oxidizing properties | : No data available |

9.2. Other information

No additional information available

| SECTIO | N 10: Stability and reactivity | | |
|---|--|--|--|
| 10.1. F | Reactivity | | |
| The produc | The product is non-reactive under normal conditions of use, storage and transport. | | |
| 10.2. | Chemical stability | | |
| Stable und | ler normal conditions. | | |
| 10.3. F | Possibility of hazardous reactions | | |
| No dangerous reactions known under normal conditions of use. | | | |
| 10.4. 0 | Conditions to avoid | | |
| None under recommended storage and handling conditions (see section 7). | | | |
| 10.5. I | ncompatible materials | | |
| No additional information available | | | |
| 10.6. H | Hazardous decomposition products | | |

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

| SECTION 11: Toxicological informa | tion |
|---|-------------------------------------|
| 11.1. Information on toxicological effect | |
| Acute toxicity (oral) | : Not classified |
| Acute toxicity (dermal) | : Not classified |
| Acute toxicity (inhalation) | : Not classified |
| Polyethylene glycol (25322-68-3) | |
| LD50 oral rat | 22 g/kg |
| LD50 dermal rabbit | > 20 g/kg |
| LC50 Inhalation - Rat | > 2.5 mg/l |
| ATE US (oral) | 22000 mg/kg body weight |
| Skin corrosion/irritation | : Not classified |
| Serious eye damage/irritation | : Not classified |
| Respiratory or skin sensitization | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : May cause respiratory irritation. |
| STOT-repeated exposure | : Not classified |
| Aspiration hazard | : Not classified |
| Viscosity, kinematic | : No data available |
| Symptoms/effects after inhalation | : May cause respiratory irritation. |
| SECTION 12: Ecological informatio | n |
| 12.1. Toxicity | |
| | |

| 12.1. | Toxicity | |
|---------|-------------------------------|--|
| Ecology | - general | : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment. |
| 12.2. | Persistence and degradability | |

No additional information available

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12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not applicable

Transportation of Dangerous Goods

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

SECTION 15: Regulatory information

| 15.1. US Federal re | qulations |
|---------------------|-----------|
|---------------------|-----------|

| Polyethylene glycol (25322-68-3) | | |
|---|---|--|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | | |
| EPA TSCA Regulatory Flag | XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711). | |

15.2. International regulations

CANADA

Polyethylene glycol (25322-68-3) Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

National regulations

No additional information available

15.3. US State regulations

SECTION 16: Other information

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| NFPA health hazard | : 1 - Materials that, under emergency conditions, can cause significant irritation. | |
|--------------------|---|--|
| NFPA fire hazard | 1 - Materials that must be preheated before ignition can occur. | |
| NFPA reactivity | : 0 - Material that in themselves are normally stable, even under fire conditions. | |

SDS US (GHS HazCom 2012)

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