



MATERIAL SAFETY DATA SHEET
REQUIRED UNDER SAFETY AND HEALTH REGULATION FOR SHIP REPAIRING

DATE UPDATED: FEBRUARY 10, 2016

SECTION 1. ----- CHEMICAL IDENTIFICATION-----

Product Name Polyethylene Glycol 8000
Product Code(s) PB0433
Recommended Use For Further Manufacturing Use Only
Not for Human or Animal Drug Use
Synonyms PEG, Poly(ethylene glycol)

SECTION 2. ----- HAZARDS IDENTIFICATION -----

GHS - Classification

Classification Not classified as a hazard

SECTION 3. ----- COMPOSITION/INFORMATION ON INGREDIENTS -----

| Chemical Name | EC No. | REACH Reg. No. | CAS-No | Weight % | Classification |
|---------------------|--------|----------------|------------|----------|----------------|
| Polyethylene glycol | - | Not available | 25322-68-3 | 95-100 | - |

SECTION 4. ----- FIRST-AID MEASURES-----

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician
Skin Contact Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes
Inhalation Move to fresh air. If breathing becomes difficult, give oxygen. If not breathing, give artificial respiration.
Ingestion Clean mouth with water. Consult a physician.
Notes to Physician Treat symptomatically

SECTION 5. ----- FIRE FIGHTING MEASURES -----

| | |
|--|---|
| Flammable Properties | Not flammable |
| Flash Point | 182-287 °C |
| Suitable Extinguishing Media | Dry chemical, CO2, water spray or regular foam |
| Hazardous Combustion Products | Carbon oxides |
| Explosion Data | |
| Sensitivity to Mechanical Impact | Not sensitive |
| Sensitivity to Static Discharge | Not sensitive |
| Protective Equipment and Precautions for Firefighters | As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear |

SECTION 6. ----- ACCIDENTAL RELEASE MEASURES-----

| | |
|--------------------------------|--|
| Personal Precautions | Avoid contact with skin, eyes and clothing. Use personal protective equipment. Ensure adequate ventilation |
| Methods for Containment | Prevent further leakage or spillage if safe to do so |
| Methods for Cleaning Up | Spilled material should be carefully wiped up or moistened with water and removed. Ventilate area and wash spill site after material pickup is complete. |

SECTION 7. ----- HANDLING AND STORAGE-----

| | |
|------------------------------|---|
| Handling | Handle in accordance with good industrial hygiene and safety practice |
| Storage | Keep containers tightly closed in a dry, cool and well-ventilated place |
| Incompatible Products | Strong oxidizing agents. |

SECTION 8. ----- EXPOSURE CONTROLS/PERSONAL PROTECTION-----

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|-----------------------------------|------------------|-----------------|-------------------|
| Polyethylene glycol 25322-68-3 | | | |

| | |
|--------------------------------------|--|
| Engineering Measures | Showers Eyewash stations Ventilation systems |
| Personal Protective Equipment | |
| Eye/Face Protection | Safety glasses with side-shields. |
| Skin and Body Protection | Wear protective gloves/clothing |
| Respiratory Protection | If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations |
| Hygiene Measures | Handle in accordance with good industrial hygiene and safety practice |

SECTION 9. ----- PHYSICAL AND CHEMICAL PROPERTIES -----

| | | |
|--|--------------------------------|--------------------------------|
| Appearance | White | |
| Odor | No information available | |
| Odor Threshold | No information available | |
| Decomposition Temperature °C | No information available | |
| Freezing Point | No information available | |
| Initial Boiling Point | No information available | |
| Physical State | Waxy Powder | |
| pH | No data available | |
| Flash Point | 182-287 °C | |
| Autoignition Temperature | No data available | |
| Boiling Point/Range | No data available | |
| Melting Point/Range | No data available | |
| Flammability Limits in Air | Upper No data available | Lower No data available |
| Explosive Properties | No information available | |
| Oxidizing Properties | No information available | |
| Evaporation Rate | No data available | |
| MMHG @ 37.8 C | No data available | |
| Vapor Density | No data available | |
| Specific Gravity | No data available | |
| Solubility | Water-soluble | |
| Partition Coefficient (n-octanol/water) | No data available | |
| Viscosity | No information available | |

SECTION 10. ----- STABILITY AND REACTIVITY -----

| | |
|---|---|
| Stability | Stable under recommended storage conditions |
| Incompatible Products | Strong oxidizing agents. |
| Conditions to Avoid | None known based on information supplied |
| Hazardous Decomposition Products | Carbon oxides |
| Hazardous Polymerization | Hazardous polymerization does not occur |

SECTION 11. ----- TOXICOLOGICAL INFORMATION -----

Acute Toxicity

Product Information Product does not present an acute toxicity hazard based on known or supplied information

| Chemical Name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|----------------------|------------------|--------------------|------------------------|
| Polyethylene glycol | 28 g/kg (Rat) | 20 g/kg (Rabbit) | |

Chronic Toxicity

Chronic Toxicity No known effect based on information supplied

Target Organ Effects None known.

SECTION 12. ----- ECOLOGICAL INFORMATION -----

Ecotoxicity

Harmful to aquatic organisms.

| Chemical Name | Toxicity to Algae | Toxicity to Fish | Microtox | Daphnia Magna (Water Flea) |
|---------------------|-------------------|------------------|---------------------------|----------------------------|
| Polyethylene glycol | | | EC50 = 100000 mg/L 15 min | |

SECTION 13. ----- DISPOSAL CONSIDERATIONS -----

Waste Disposal Method Dispose of material in accordance with all federal, state, and local regulations

Contaminated Packaging Dispose of in accordance with all federal, state and local regulations

SECTION 14. ----- TRANSPORT INFORMATION -----

IATA Not regulated

DOT Not regulated

SECTION 15. ----- REGULATORY INFORMATION -----

REACH Title VII Restrictions No information available.4

| Chemical Name | Dangerous Substances | Organic Solvents | Harmful Substances Whose Names Are to be Indicated on the Label | Pollution Release and Transfer Registry (Class II): | Pollution Release and Transfer Registry (Class I): | Poison and Deleterious Substances Control Law: |
|---------------------|----------------------|------------------|---|---|--|--|
| Polyethylene glycol | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |

| Component | ISHA - Harmful Substances Prohibited for Manufacturing, Importing, Transferring, or Supplying | ISHA - Harmful Substances Requiring Permission | Toxic Chemical Classification Listing (TCCL) - Toxic Chemicals | Toxic Release Inventory (TRI) - Group I | Toxic Release Inventory (TRI) - Group II |
|--|---|--|--|---|--|
| Polyethylene glycol 25322-68-3 (95-100) | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |

International Inventories

| | |
|---------------|----------|
| TSCA | Complies |
| EINECS/ELINCS | Complies |
| ENCS | Complies |
| IECSC | Complies |
| KECL | Complies |
| PICCS | Complies |
| AICS | Complies |

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

| | |
|--|----|
| Acute Health Hazard | No |
| Chronic Health Hazard | No |
| Fire Hazard | No |
| Sudden Release of Pressure Hazard | No |
| Reactive Hazard | No |

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990

CERCLA

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

International Regulations

Mexico - Grade No information available.

Canada

WHMIS Hazard Class

Not determined

SECTION 16. ----- OTHER INFORMATION-----

| | |
|---------------------------------|---------------------------|
| Issuing Date | 13-Aug-2009 |
| Revision Date | 10-Feb-2016 |
| Revision Note | No information available. |
| Recommended Restrictions | No information available |

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS