

Material Safety Data Sheet

According to EG 1907/2006



Date Updated: 11/01/2008

Version: 1.0

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1. Identification of the substance and of the company	
Product name	Poly(ethylene oxide)
Manufacturer / supplier identification	
Company	PSS Polymer Standards Service GmbH In der Dalheimer Wiese 5 D - 55023 Mainz
Technical Phone	+49 6131 - 96239 - 0
Fax	+49 6131 - 96239 -11
Email	Info@polymer.de
Emergency Phone	+49 6131 - 1924 - 0
2. Composition / information on ingredients	
CAS-No.:	25322-68-3
EC No.:	203-473-3
Molecular formula:	$(C_2H_4O)_nH_2O$
3. Hazards identification	
SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT Not hazardous according to Directive 67/548/EEC.	
4. First aid measures	
AFTER INHALATION If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.	
AFTER SKIN CONTACT In case of skin contact, immediately wash skin with soap and copious amounts of water.	
AFTER EYE CONTACT In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.	
AFTER INGESTION If swallowed, wash out mouth with water provided person is conscious. Call a physician.	
5. Fire fighting measures	
EXPLOSION DATA Dust Potential: Dust and fumes may be a fire and explosion hazard when exposed to high temperatures or ignition sources. Particle size and dispersion in air determine reactivity.	
CONDITIONS OF FLAMMABILITY Static charge buildup can be a potential fire hazard when used in the presence of volatile or lammable mixtures.	
EXTINGUISHING MEDIA Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.	
SPECIAL RISKS Specific Hazard(s): Emits toxic fumes under fire conditions.	
SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.	

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6. Accidental release measures		
PROCEDURE(S) OF PERSONAL PRECAUTION(S) Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust.		
METHODS FOR CLEANING UP Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.		
7. Handling and storage		
HANDLING Directions for Safe Handling: Avoid inhalation. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure.		
STORAGE Conditions of storage: Keep tightly closed.		
8. Exposure controls / personal protection		
ENGINEERING CONTROLS Safety shower and eye bath. Mechanical exhaust required. Ground all equipment, vessels, tables, and other metallic objects that may come into contact with the product.		
GENERAL HYGIENE MEASURES Wash thoroughly after handling.		
PERSONAL PROTECTIVE EQUIPMENT Respiratory Protection: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). 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.		
HAND PROTECTION Protective gloves.		
EYE PROTECTION Chemical safety goggles.		
9. Physical and chemical properties		
Appearance	Physical State:	Solid
	Colour:	White
	Form:	Powder
Property	Value	At Temperature or Pressure
pH	N/A	
BP / BP Range	N/A	
Mp / Mp Range	N/A	
Flash Point	N/A	
Flammability	N/A	
Autoignition Temp.	N/A	
Oxidizing Properties	N/A	
Explosive Properties	N/A	
Explosion Limits	N/A	
Vapor Pressure	N/A	
SG / Density	N/A	
Partition Coefficient	N/A	

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Viscosity	N/A
Vapor Density	N/A
Saturated Vapor Conc.	N/A
Evaporation Rate	N/A
Bulk Density	N/A
Decomposition Temp.	N/A
Solvent Content	N/A
Water Content	N/A
Surface Tension	N/A
Conductivity	N/A
Miscellaneous Data	N/A
Solubility in Water	Soluble
10. Stability and reactivity	
STABILITY Stable: stable	
MATERIALS TO AVOID Strong acids, Strong bases, Strong oxidizing agents.	
HAZARDOUS DECOMPOSITION PRODUCTS Carbon monoxide, Carbon dioxide.	
HAZARDOUS POLYMERIZATION Will not occur.	
11. Toxicological information	
RTECS NUMBER: TQ3500000	
ACUTE TOXICITY LD50 Oral Rat > 15,000 mg/kg	
IRRITATION DATA Skin Rabbit 500 mg 24H Remarks: Mild irritation effect	
Eyes Rabbit 500 mg 24H Remarks: Mild irritation effect	
SIGNS AND SYMPTOMS OF EXPOSURE To the best of our knowledge, thr chemical, physical, and toxicological properties have not been thoroughly investigated.	
ROUTE OF EXPOSURE Skin Contact: May cause skin irritation. Skin Absorption: May be harmful if absorbed through the skin. Eye Contact: May cause eye irritation.	

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Inhalation: Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled. Ingestion: May be harmful if swallowed.
12. Ecological information
No data available
13. Disposal considerations
SUBSTANCE DISPOSAL Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.
14. Transport information
RID/ADR Non-hazardous for road transport. IMDG Non-hazardous for sea transport. IATA Non-hazardous for air transport.
15. Regulatory information
Not hazardous according to Directive 67/548/EEC. COUNTRY SPECIFIC INFORMATION Germany WGK: 1 ID-Number: 105 KBwS-Decision
16. Other information
WARRANTY The information in this document is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product. PSS GmbH shall not be held liable for any damage resulting from handling or from contact with the above product. DISCLAIMER For R&D use only. Not for drug, household or other uses.