

American Polymer Standards Corporation Safety Data Sheet

Section 1: Identification

Product Name: Polyethylene Oxide	EC Number: 500-038-2	CAS Number: 25322-68-3
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Product Nos.: PEOX1350K; PEOX900K; PEOX600K; PEOX368K; PEOX147K; PEOX90K; PEOX85K; PEOX46K; PEOX26K; PEOX2000K; PEOX916K; PEOX825K; PEOX700K; PEOX500K; PEOX200K; PEOX120K

Relevant Identified Uses of the Substance or mixture and uses advised against:

Identified Uses: Laboratory Use

Supplier/Manufacturer: American Polymer Standards Corporation, 8680 Tyler Blvd., Mentor, OH 44060

Phone: 440-255-2211 * Fax: 440-255-8397 * Email: apsc@ampolymer.com

In Case of Emergency: (440) 255-2211

Section 2: Hazardous Identification

Signal Word: None

GHS: Not classified as hazardous per GHS; not listed in Table 3.1 Annex VI of regulation 1272/2008/EU, as amended. The product is not hazardous in the form in which it is placed on the market and under the normal and recommended conditions of storage and use. The product is not dangerous according to the criteria set by the EU.

OHSA: While this material is not considered hazardous by OSHA Hazard Communications Standards (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained for employees and other users of this product.

HMIS Classification:	
Health Hazards:	0
Flammability:	0
Physical Hazards:	0

NFPA Rating:	
Health Hazard:	0
Fire:	0
Reactivity Hazards:	0

Potential Health Effects:

- Inhalation:** May be harmful if inhaled. May cause respiratory tract irritation.
- Skin:** May be harmful if absorbed through skin. May cause skin irritation.
- Eyes:** May cause eye irritation.
- Ingestion:** May be harmful if swallowed.

Low hazard in normal laboratory use. The small quantities supplied in our products are unlikely to cause server or immediate health effects. Use only as directed and in accordance with safe laboratory practices.

Section 3: Composition/Information on Ingredients

Substance/Mixture: Substance	Synonyms: Polyethylene glycol; Poly(ethylene oxide); Poly(oxyethylene) glycol; Ethylene oxide, homopolymer.
Chemical Name: Polyethylene oxide	

Section 4: First-Aid Measures

Description of Necessary First-Aid Measures

- Inhalation:** Move person to fresh air; if effects occur, consult a physician
- Skin:** Wash skin with plenty of water. Seek first-aid or medical attentions as needed. If molten material comes in contact with skin, do not apply ice but cool under ice water of running stream of eater. DO NOT attempt to remove the material from skin. Removal could result in severe tissue damage. Seek medical attention immediately. Suitable emergency safety shower facility should be immediately available.
- Eyes:** Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.
- Ingestion:** If swallowed, seek medical attention. May cause gastrointestinal blockage. Do not give laxatives. Do not induce vomiting unless directed to do so by medical personnel.

Description of Symptoms/Effects (both acute and delayed) & Symptoms of Overexposure:

- Inhalation:** No known significant effects of critical hazards. No specific data regarding symptoms of overexposure.
- Skin:** No known significant effects of critical hazards. No specific data regarding symptoms of overexposure.
- Eyes:** No known significant effects of critical hazards. No specific data regarding symptoms of overexposure.
- Ingestion:** No known significant effects of critical hazards. No specific data regarding symptoms of overexposure.

Indication of Immediate Medical Attention & Special Treatment Needed, If Necessary:

- Note to Physician:** Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific Treatments:** No specific treatment
- Protection of First-Aiders:** No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

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Section 5: Fire-Fighting Measures

Suitable Extinguishing Media:	Use dry chemical powder, water spray (fog), foam or CO2
Unsuitable Extinguishing Media:	Do not use water jet.
Specific Hazards Arising from the Chemical:	Carbon oxides
Hazardous Thermal Decomposition Products:	Decomposition products may include carbon oxides
Special Protective Actions for Fire-Fighters:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special Protective Equipment for Fire-Fighters:	Fire-Fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment & Emergency Procedures:	Spilled material may cause a slipping hazard. Keep unnecessary and unprotected personnel from entering the area. Use appropriate safety equipment. For additional information, refer to Section 8: Exposure Controls & Personal Protection.
Environmental Precautions:	Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. For additional information, refer to Section 12: Ecological Information.
Methods & Materials for Containment & Clean Up:	Contain spilled material if possible. Sweep up. Collect in suitable and properly labeled containers. For additional information, refer to Section 13: Disposal Considerations.
Reference to other sections:	See Section 1 for emergency contact information See Section 8 for information on appropriate personal protective equipment See Section 13 for additional waste treatment information

Section 7: Handling & Storage

Precautions for Safe Handling:	
Protective Measures:	No smoking, open flames or sources of ignition in handling and storage areas. Wear appropriate personal protective equipment (refer to Section 8). Avoid inhalation. Avoid contact with eyes, skin and clothing. Avoid creation of dust. Ensure adequate ventilation. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming in contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material.
Advice on General Occupational Hygiene:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See Sections 8 for additional information on hygiene measures.
Conditions for Safe Storage:	
Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight. Keep container tightly closed in a dry and well-ventilated place, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.	

Section 8: Exposure Controls & Personal Protection

Exposure Limits:		Component	CAS #	Value	Control parameters	Basis
		Polyethylene Glycol	25322-68-3	TWA	10mg/m3	WEEL
Engineering Controls:	Safety shower and eye bath. Mechanical exhaust required.					
Personal Protective Measures:						
Respiratory:	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 (SU) or CEN (EU).					
Hand:	Protective gloves					
Eye:	Chemical safety goggles					
Skin:	Personal protective equipment for the body should be selected based on the task being performed and the risk involved.					
Hygiene Measures:	Wash thoroughly after handling.					

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Section 9: Physical & Chemical Properties

Appearance: Physical State & Color:	Powder/White	Lower & Upper Flammability/Explosive Limits:	Not Available
Odor:	Odorless	Vapor Pressure:	Not Available
Odor Threshold:	Not Available	Vapor Density:	Not Available
pH:	Not Available	Relative Density:	Not Available
Melting Point:	Not Available	Solubility:	Not Available
Boiling Point:	Not Available	Partition coefficient: n-octanol/water:	Not Available
Flash Point:	Not Available	Auto-ignition Temperature:	Not Available
Evaporation Rate:	Not Available	Decomposition Temperature:	Not Available
Flammability (solid, gas):	Not Available	Viscosity:	Not Available

Section 10: Stability & Reactivity

Reactivity:	No specific test data related to reactivity available for this product or its ingredients.
Chemical Stability:	The product is stable.
Possibility of Hazardous Reactions:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to Avoid:	Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Prevent dust accumulation.
Incompatible materials:	Oxidizing Materials
Hazardous Decomposition Products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11: Toxicology Information

Acute Toxicity:

Oral LD50:	Rat - >5,000 mg/kg
Inhalation LC50:	No Data Available
Dermal LD50:	Rabbit - >5,000 mg/kg

Skin Corrosion/Irritation:	Prolonged contact is essentially nonirritating to skin. Repeated contact may cause flaking and softening of skin
Serious Eye Damage/Irritation:	May cause slight temporary eye irritation. Corneal injury is unlikely.
Respiratory or Skin Sensitization:	No Data Available
Germ Cell Mutagenicity:	No Data Available
Reproductive Toxicity:	No Data Available
Teratogenicity:	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

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.
ACGIH:	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 ACGIH.
NTP:	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 NTP.
OSHA:	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 OSHA.

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:	Cause eye irritation.

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Section 12: Ecological Information

	Product/Ingredient Name	Result	Species	Exposure
Toxicity:	Polyethylene Glycol	Acute LC50>1000000 µg/l Fresh Water	Fish – Salmo salar -Parr	96 hrs.
Persistence & Degradability: No Data Available				
Bio-accumulative Potential: No Data Available				
Mobility in Soil: No Data Available				
Results of PET & vPvB assessment: PET: No Data Available vPvB: No Data Available				
Other Adverse Effects: No known significant effect or critical hazards				

Section 13: Disposal Considerations

Product:	The generation of waste should be avoided or minimized whenever possible. Disposal practices must be in compliance with all Federal, State and Local laws and regulations. DO NOT DUMP INTO ANY SEWERS, ON THE GROUND OR INTO ANY BODY OF WATER. Contact a licensed professional waste disposal service to ensure proper disposal.
Disposal Methods:	
Hazardous Waste:	Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC
Packaging:	
Disposal Methods:	The generation of waste should be avoided or minimized whenever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special Precautions:	This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersals of split material and runoff and contact with soil, waterways, drains and sewers.

Section 14: Transport Information

DOT (US):	Not Regulated
IMDG:	Not Regulated
IATA:	Not Regulated
ADR/RID:	Not Regulated
Transport in bulk according to Annex II of Marpol and IBC Code:	Not Available

Section 15: Regulatory Information

U.S. Toxic Substances Control Act:	All components of this product are either listed on the U.S. Toxic Substances Control Act (TSCA) inventory of chemicals or are otherwise compliant with TSCA regulations.
SARA 302 Components:	No chemical in this material are subject to reporting requirements of SARA Title III, Section 302.
SARA 311/312 Components:	No SARA Hazards
SARA 313 Components:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
EU Regulation (EC) No. 1907/2006 (REACH)	
Annex XIV – List of substance authorization:	Annex XIV None of the components are listed
Annex XVII Restrictions on the manufacture placing on the market and use of certain dangerous substances, mixtures and articles:	Substances of very high concern: None of the components are listed Not Applicable
Other EU Regulations:	
Ozone depleting substance (1005/2009/EU):	Not Listed
Prior Informed Consent (PIC) (649/2012/EU):	Not Listed
Seveso Directive:	This product is not controlled under the Seveso Directive
International Regulations:	
Chemical Weapon Convention List Schedules I, II & III Chemicals:	Not Listed
Montreal Protocol (Annexes A, B, C, E):	Not Listed
Stockholm Convention on Persistent Organic Pollutants:	Not Listed
Rotterdam Convention of Prior Informed Consent (PIC):	Not Listed
UNECE Aarhus Protocol on POPs and Heavy Metals:	Not Listed

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Section 15: Regulatory Information

Right to Know Components:

Massachusetts: No components of the material are subject to Massachusetts Right to Know Act.

New Jersey: Polyethylene Glycol CAS # 25322-68-3

Pennsylvania: Polyethylene Glycol CAS # 25322-68-3

California Prop 65: No components found.

Inventory List:

Australia This material is listed or exempted.

Canada This material is listed or exempted.

China This material is listed or exempted.

Europe This material is listed or exempted.

Inventory List continued:

Japan **Japan inventory (ENCS):** This material is listed or exempted.

Japan inventory (ISHL): This material is listed or exempted.

New Zealand This material is listed or exempted.

Philippines This material is listed or exempted.

Republic of Korea This material is listed or exempted.

Taiwan This material is listed or exempted.

Turkey This material is listed or exempted.

United States This material is listed or exempted.

Section 16: Other Information

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