

SAFETY DATA SHEET

1. Identification

Product identifier: Polyethylene Glycol

Other means of identification U216, U214, 6150, 6153, 4622, 4621, 4620 Product No.:

Recommended use and restriction on use

Recommended use: Not determined. Restrictions on use: Not determined.

Details of the supplier of the safety data sheet

	Avantor Performance Materials, LLC. 3477 Corporate Parkway Center Valley, PA 18034
Telephone:	
	Customer Service: 855-282-6867
Fax:	610-573-2610
Contact Person:	Environmental Health & Safety
E-mail:	info@avantormaterials.com

Emergency telephone number:

CHEMTREC: 1-800-424-9300 within US and Canada

2. Hazard(s) identification

Hazard Classification Not	classified
Unknown toxicity - Health	
Acute toxicity, oral	100 %
Acute toxicity, dermal	100 %
Acute toxicity, inhalation, vapo	r 100 %
Acute toxicity, inhalation, dust or mist	100 %
Unknown toxicity - Environment	
Acute hazards to the aquatic environment	0 %
Chronic hazards to the aquatic environment	: 100 %
Label Elements	
Hazard Symbol: No s	symbol



Specific hazards arising from

the chemical:

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Signal Word:	No signal word.
Hazard Statement: Precautionary	Not applicable Not applicable
Statements	

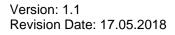
Other hazards which do not None. result in GHS classification:

3. Composition/information on ingredients

3. Composition/information of		
Substances		
Composition Comments:	The components are not hazardous or are below required disclosure limits.	
4. First-aid measures		
General information:	Get medical advice/attention if you feel unwell. If medical advice is needed, have product container or label at hand.	
Ingestion:	Rinse mouth. Get medical attention if any discomfort continues.	
Inhalation:	Move to fresh air. Get medical attention if symptoms persist.	
Skin Contact:	Wash skin thoroughly with soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse. If skin irritation or an allergic skin reaction develops, get medical attention.	
Eye contact:	Flush thoroughly with water. If irritation occurs, get medical assistance.	
Most important symptoms/effects, acute and delayed		
Symptoms:	May cause skin and eye irritation.	
Hazards:	None known.	
Indication of immediate medical attention and special treatment needed		
Treatment:	Treat symptomatically.	
5. Fire-fighting measures		
General Fire Hazards:	May burn, but does not ignite readily.	
Suitable (and unsuitable) extinguishing media		
Suitable extinguishing media:	Water spray, fog, CO2, dry chemical, or alcohol resistant foam.	
Unsuitable extinguishing media:	Avoid water in straight hose stream; will scatter and spread fire.	
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significant amounts of gases.

Fire or excessive heat may result in rupture of container due to release of





Special protective equipment and precautions for firefighters

Special fire fighting procedures:	Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters:	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:	Keep unauthorized personnel away. Ventilate closed spaces before entering them. Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area. See Section 8 of the SDS for Personal Protective Equipment.
Methods and material for containment and cleaning up:	Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Flush area with plenty of water. Dike far ahead of larger spills for later disposal.
Notification Procedures:	Inform authorities if large amounts are involved.
Environmental Precautions:	Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.
7. Handling and storage	
Precautions for safe handling:	Use personal protective equipment as required. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Wash hands thoroughly after handling.
Conditions for safe storage, including any incompatibilities:	Keep container tightly closed. Store in a well-ventilated place.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

None of the components have assigned exposure limits.

Appropriate Engineering No data available. Controls

Individual protection measures, such as personal protective equipment

General information:	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
Eye/face protection:	Wear safety glasses with side shields (or goggles).
Skin Protection Hand Protection:	Chemical resistant gloves
Other:	Wear suitable protective clothing and gloves.



Respiratory Protection:	In case of inadequate ventilation use suitable respirator.
Hygiene measures:	Provide eyewash station and safety shower. Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. Wash contaminated clothing before reuse.

9. Physical and chemical properties

Appearance

Physical state:	Liquid
Form:	Liquid
Color:	Colorless
Odor:	Mild
Odor threshold:	No data available.
pH:	No data available.
Melting point/freezing point:	4 °C
Initial boiling point and boiling range:	> 200 °C
Flash Point:	227 °C (Pensky-Martens Closed Cup)
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Upper/lower limit on flammability or explosi	ve limits
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	No data available.
Vapor density:	No data available.
Density:	1,1 g/ml (20 °C)
Relative density:	1,1 (20 °C)
Solubility(ies)	
Solubility in water:	Completely Soluble
Solubility (other):	aliphatic hydrocarbons: Slightly Soluble
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.

10. Stability and reactivity

Reactivity:	No dangerous reaction known under conditions of normal use.	
Chemical Stability:	Material is stable under normal conditions.	
Possibility of hazardous reactions:	Hazardous polymerization does not occur.	
Conditions to avoid:	Excessive heat.	
Incompatible Materials:	Strong acids. Strong bases. Strong oxidizing agents.	
Hazardous Decomposition Products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.	
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11. Toxicological information

Information on likely routes of ex Inhalation:	xposure Spray mists may cause respiratory tract irritation.
Skin Contact:	Prolonged skin contact may cause temporary irritation.
Eye contact:	May cause temporary eye irritation.
Ingestion:	No adverse effects due to ingestion are expected.
Information on toxicological effe	cts
Acute toxicity (list all possible	routes of exposure)
Oral Product:	No data available.
Dermal Product:	No data available.
Inhalation Product:	No data available.
Repeated dose toxicity Product:	None.
Skin Corrosion/Irritation Product:	May cause skin irritation.
Serious Eye Damage/Eye Irritati Product:	on May cause temporary eye irritation.
Respiratory or Skin Sensitizatio Product:	n Not a skin sensitizer.
Carcinogenicity Product:	This substance has no evidence of carcinogenic properties.
IARC Monographs on the Evaluation No carcinogenic component	ation of Carcinogenic Risks to Humans: s identified
US. National Toxicology Program No carcinogenic component	m (NTP) Report on Carcinogens: s identified
ACGIH Carcinogen List: No carcinogenic component	s identified
Germ Cell Mutagenicity	
In vitro Product:	No data available.
In vivo Product:	No data available.



Reproductive toxicity Product:	No components toxic to reproduction
Specific Target Organ Toxicity - Product:	- Single Exposure None known.
Specific Target Organ Toxicity - Product:	- Repeated Exposure None known.
Aspiration Hazard Product:	Not classified
Other effects:	No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish Product:	No data available.	
Aquatic Invertebrates Product:	No data available.	
Chronic hazards to the aquatic environment:		
Fish Product:	No data available.	
Aquatic Invertebrates Product:	No data available.	
Toxicity to Aquatic Plants Product:	No data available.	
Persistence and Degradability		
Biodegradation Product:	The subject product is expected to biodegrade and is not expected to persist for long periods in an aquatic environment.	
BOD/COD Ratio Product:	No data available.	
Bioaccumulative potential Bioconcentration Factor (BCF) Product: The product does not contain any substances expected to be bioaccumulating.		
Partition Coefficient n-octanol / water (log Kow) Product: No data available.		
Mobility in soil:	The product is water soluble and may spread in water systems.	



Other adverse effects:	Not expected to be harmful to aquatic organisms. Low acute toxicity to aquatic organisms.	
13. Disposal considerations		
Disposal instructions:	Discharge, treatment, or disposal may be subject to national, state, or local laws.	
Contaminated Packaging:	Since emptied containers retain product residue, follow label warnings even after container is emptied.	

14. Transport information

TDG

Not regulated.

IMDG

Not regulated.

ΙΑΤΑ

Not regulated.

Transport in bulk according to Annex II of MARPOL and the IBC Code: Not applicable

15. Regulatory information

Canada Federal Regulations

List of Toxic Substances (CEPA, Schedule 1) Not Regulated

Export Control List (CEPA 1999, Schedule 3) Not Regulated

National Pollutant Release Inventory (NPRI) Canada. National Pollutant Release Inventory (NPRI) (Schedule 1, Parts 1-4) Not Regulated

Greenhouse Gases Not Regulated

Controlled Drugs and Substances Act

Not Regulated

Precursor Control Regulations Not Regulated

International regulations

Montreal protocol

Not applicable

Stockholm convention

Not applicable

Rotterdam convention

Not applicable



Kyoto protocol Not applicable

Inventory Status:

Australia AICS: Canada DSL Inventory List: EU EINECS List: EU ELINCS List: EU No Longer Polymers List: China Inv. Existing Chemical Substances: Korea Existing Chemicals Inv. (KECI): Canada NDSL Inventory: Philippines PICCS: US TSCA Inventory: New Zealand Inventory of Chemicals: Switzerland Consolidated Inventory: Japan ISHL Listing: Japan Pharmacopoeia Listing: On or in compliance with the inventory On or in compliance with the inventory Not in compliance with the inventory. Not in compliance with the inventory On or in compliance with the inventory Not in compliance with the inventory. On or in compliance with the inventory Not in compliance with the inventory. On or in compliance with the inventory. Not in compliance with the inventory. Not in compliance with the inventory. Not in compliance with the inventory.

16.Other information, including date of preparation or last revision		
Revision Date:	17.05.2018	
Version #:	1.1	
Further Information:	No data available.	
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