

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 12/15/2014 Version: 1.0

SECTION 1:	Identification of the subs	stance/	mixture and of the company/u	ndertaking	
I.1. Produ	ıct identifier				
Product form		: Subst	ance		
rade name		: POLY	ETHYLENE GLYCOL (PEG) 8000		
CAS No		: 25322	2-68-3		
Product code		: AB01	500		
Formula		: H(C2I	H4O)nHO		
I.2. Relev	ant identified uses of the substa	ance or	mixture and uses advised against		
Use of the subst			atory use/Manufacturing component/Res	search	
Jse of the subst	ance/mixture	: Solve Chem	nt ical intermediate		
I.3. Detail	s of the supplier of the safety d	ata shee	et		
.4. Emerg	gency telephone number				
Emergency num	ber	: 855.8	35.2572 (U.S.) :: 760.602.8703 (Outside	U.S.)	
SECTION 2:	Hazards identification				
	ification of the substance or mi	xture			
Classification (
Not classified	GH3-03)				
2.2. Label	elements				
GHS-US labelir	ng				
No labeling appl					
2.3. Other	hazards				
No additional inf	ormation available				
2.4. Unkno	own acute toxicity (GHS-US)				
No data availabl					
SECTION 3:	Composition/information	n on in	gredients		
3.1. Subst					
Name			Product identifier	%	Classification (GHS-US)
	E GLYCOL (PEG) 8000		(CAS No) 25322-68-3	100	Not classified
,	rases: see section 16				1
.2. Mixtu	re				
lot applicable					
	First aid measures				
	iption of first aid measures				
First-aid measur		arrest	the vital functions. Unconscious: mainta artificial respiration or oxygen. Cardiac red breathing: half-seated. Victim in shor	arrest: perform	resuscitation. Victim conscious wit

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First-aid measures after inhalation	: Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service. Assure fresh air breathing. Allow the victim to rest.
First-aid measures after skin contact	Take victim to a doctor if irritation persists. Rinse with water. Soap may be used. Do not apply (chemical) neutralizing agents. Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact	 Rinse with water. Take victim to an ophthalmologist if irritation persists. Do not apply neutralizing agents. Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
First-aid measures after ingestion	: Rinse mouth with water. Consult a doctor/medical service if you feel unwell. Immediately after ingestion: give lots of water to drink. Ingestion of large quantities: immediately to hospital. Call Poison Information Centre (www.big.be/antigif.htm). Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
4.2. Most important symptoms and o	effects, both acute and delayed
Symptoms/injuries	: Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/injuries after inhalation	: Slight irritation.
Symptoms/injuries after skin contact	: Slight irritation.
Symptoms/injuries after eye contact	: Slight irritation.
4.3. Indication of any immediate me	dical attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measure	es
5.1. Extinguishing media	
suitable extinguishing media	: Water spray. Alcohol-resistant foam. BC powder. Carbon dioxide. Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: No unsuitable extinguishing media known. Do not use a heavy water stream.
5.2 Special bazards arising from the	a substance or mixture

5.2. Special hazards arising from the substance or mixture		
Fire hazard	 DIRECT FIRE HAZARD. Not easily combustible. In finely divided state: increased fire hazard. INDIRECT FIRE HAZARD. Temperature above flashpoint: higher fire/explosion hazard. 	
Explosion hazard	 DIRECT EXPLOSION HAZARD. Fine dust is explosive with air. INDIRECT EXPLOSION HAZARD. Dust cloud can be ignited by a spark. 	
Reactivity	: On heating/burning: release of carbon monoxide - carbon dioxide. Reacts with (strong) oxidizers. Reacts with (some) acids.	
5.3. Advice for firefighters		
Precautionary measures fire	: Exposure to fire/heat: keep upwind. Exposure to fire/heat: have neighbourhood close doors and windows.	
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.	
Protection during firefighting	: Heat/fire exposure: compressed air/oxygen apparatus. Do not enter fire area without proper protective equipment, including respiratory protection.	

CECTION C. Assidental relaces massures				
SECTION 6: Accidental release measures				
6.1.	Personal precautions, protective equipment and emergency procedures			
6.1.1.	.1. For non-emergency personnel			
Protectiv	ve equipment	:	Gloves. Protective clothing. Dust cloud production: compressed air/oxygen apparatus.	
Emergency procedures		:	Mark the danger area. Prevent dust cloud formation, e.g. by wetting. No naked flames. Wash contaminated clothes. Evacuate unnecessary personnel.	
Measures in case of dust release		•	In case of dust production: keep upwind. Dust production: have neighbourhood close doors and windows. Dust production: stop engines and no smoking. In case of dust production: no naked flames or sparks. Dust: spark-/explosionproof appliances/lighting equipment.	
6.1.2. For emergency responders				
Protective equipment :		:	Equip cleanup crew with proper protection.	
Emergency procedures :		:	Ventilate area.	
6.2.	Environmental precautions			
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Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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6.3.	Methods and material for containm	ient and cleaning up
For conta	ainment	: Contain released substance, pump into suitable containers. Plug the leak, cut off the supply. Knock down/dilute dust cloud with water spray. Powdered form: no compressed air for pumping over spills.
Methods for cleaning up		: Scoop solid spill into closing containers. Powdered: do not use compressed air for pumping over spills. See "Material-handling" for suitable container materials. Wash clothing and equipment after handling. On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.
6.4.	Reference to other sections	

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage			
7.1. Precautions for safe handling			
Precautions for safe handling :	Comply with the legal requirements. Clean contaminated clothing. Powdered form: no compressed air for pumping over. Avoid raising dust. Keep away from naked flames/heat. Finely divided: spark- and explosionproof appliances. Finely divided: keep away from ignition sources/sparks. Observe normal hygiene standards. Keep container tightly closed. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Provide good ventilation in process area to prevent formation of vapor.		
7.2. Conditions for safe storage, including	any incompatibilities		
Storage conditions :	Keep only in the original container in a cool, well ventilated place away from : Direct sunlight. Keep container closed when not in use.		
Incompatible products :	Strong bases. strong acids.		
Incompatible materials :	Sources of ignition. Direct sunlight.		
Heat-ignition :	KEEP SUBSTANCE AWAY FROM: heat sources. ignition sources.		
Prohibitions on mixed storage :	KEEP SUBSTANCE AWAY FROM: oxidizing agents. (strong) acids. (strong) bases.		
Storage area :	Store in a dry area. Keep container in a well-ventilated place. May be stored under nitrogen. Meet the legal requirements.		
Special rules on packaging :	SPECIAL REQUIREMENTS: closing. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.		
Packaging materials :	SUITABLE MATERIAL: stainless steel. carbon steel. aluminium.		
7.3. Specific end use(s)			

No additional information available

SECTION 8: Exposure controls/personal protection				
8.1.	Control parameters			
No additional information available				

8.2.	Exposure controls		
Personal protective equipment		:	Avoid all unnecessary exposure.
Materials	for protective clothing	:	GIVE EXCELLENT RESISTANCE: No data available. GIVE GOOD RESISTANCE: No data available. GIVE LESS RESISTANCE: No data available. GIVE POOR RESISTANCE: No data available.
Hand pro	tection	:	Gloves. Wear protective gloves.
Eye prote	ection	:	Safety glasses. In case of dust production: protective goggles. Chemical goggles or safety glasses.
Skin and	body protection	:	Protective clothing.
Respirato	bry protection	:	Dust formation: dust mask. Wear approved mask.
Other info	ormation	:	When using, do not eat, drink or smoke.

SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and	I chemical properties	
Physical state	: Solid	
Appearance	: Solid. Crystalline powder. Pellets/tablets.	
Molecular mass	: 8000 g/mol	
Color	: White.	
Odor	: Almost odourless. Characteristic odour.	

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Odor threshold	: No data available
рН	: 4.5 - 7.5 (5 %)
pH solution	: 5%
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: 62 °C
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 265 °C
Self ignition temperature	: > 400 °C
Decomposition temperature	: > 200 °C
Flammability (solid, gas)	: No data available
Vapor pressure	: < 0.01 hPa
Relative vapor density at 20 °C	: No data available
Relative density	: 1.0
Density	: 1083 kg/m ³
Solubility	: Soluble in water. Soluble in alcohols. Soluble in aromatic hydrocarbons. Water: 50 g/100ml
Log Pow	: <3
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 0.75 Pa.s (99 °C)
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: No data available
9.2. Other information	
No additional information available	
SECTION 10: Stability and reactivity	y .
10.1. Reactivity	
On heating/burning: release of carbon monoxid	e - carbon dioxide. Reacts with (strong) oxidizers. Reacts with (some) acids.
10.2. Chemical stability	
Stable under normal conditions. Not established	J.
10.3. Possibility of hazardous reactions	
Not established.	

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

SECTIO	DN 11: Toxicological information
11.1.	Information on toxicological effects

Acute toxicity	: Not classified
POLYETHYLENE GLYCOL (PEG) 8000 (\f)25	322-68-3
LD50 oral rat	> 30000 mg/kg (Rat)
LD50 dermal rabbit	> 20000 mg/kg (Rabbit)
Skin corrosion/irritation	: Not classified
	pH: 4.5 - 7.5 (5 %)
Serious eye damage/irritation	: Not classified
	pH: 4.5 - 7.5 (5 %)

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Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/injuries after inhalation	: Slight irritation.
Symptoms/injuries after skin contact	: Slight irritation.
Symptoms/injuries after eye contact	: Slight irritation.

SECTION 12: Ecological in	formation
12.1. Toxicity	
Ecology - water	: Mild water pollutant (surface water). Not harmful to fishes (LC50(96h) >1000 mg/l). Not harmful to aquatic organisms (EC50 >1000 mg/l). Insufficient data available on ecotoxicity.

POLYETHYLENE GLYCOL (PEG) 8000 (25322-68-3)	
LC50 fish 1	> 5000 mg/l (24 h; Carassius auratus)
LC50 other aquatic organisms 1	> 1000 mg/l (96 h)
LC50 fish 2	> 1000 mg/l (96 h; Pisces)
Threshold limit other aquatic organisms 1	100 mg/l (Plankton)
Threshold limit algae 1	500 mg/l (Algae; Chronic)

12.2. Persistence and degradability

	POLYETHYLENE GLYCOL (PEG) 8000 (25322-68-3)	
Persistence and degradability Not readily biodegradable in water. Non degradable in the soil. Not establis	stablished.	Persistence and degradability

12.3. Bioaccumulative potential

POLYETHYLENE GLYCOL (PEG) 8000 (25322-68-3)		
Log Pow	<3	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4). Not established.	
12.4. Mobility in soil		
le additional information available		

No additional information available

12.5. Other adverse effects Other information Image: Comparison of the information	: Avoid release to the environment.
SECTION 13: Disposal consideration	S
Waste disposal recommendations	: Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle

hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Dissolve or mix with a combustible solvent. Remove to an authorized waste

	incinerator for solvents with energy recovery. Do not discharge into surface water. Dispose in a safe manner in accordance with local/national regulations.
Additional information	: Hazardous waste according to Directive 2008/98/EC.
Ecology - waste materials	: Avoid release to the environment.

SECTION 14: Transport information

In accordance with DOT

No dangerous good in sense of transport regulations

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Additional information	
Other information	: No supplementary information available.
State during transport (ADR-RID)	: Rail and road transport: not subject to ADR-RID.
ADR	
Transport document description	: UN N/A
Packing group (ADR)	: N/A
Hazard identification number (Kemler No.)	: N/A
Classification code (ADR)	: N/A
Transport by sea	
No additional information available	
Air transport	
No additional information available	
SECTION 15: Regulatory information	
15.1. US Federal regulations	
POLYETHYLENE GLYCOL (PEG) 8000 (25322-68-3)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
15.2. International regulations	
CANADA	
No additional information available	
EU-Regulations	
No additional information available	

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

15.2.2. National regulations

No additional information available

15.3. US State regulations

No additional information available

SECTION 16: Other information	
Other information	: None.
NFPA health hazard	: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.
NFPA fire hazard	: 1 - Must be preheated before ignition can occur.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

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SDS US (GHS HazCom 2012)

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