

Material Safety Data Sheet

Complies with EC no. 1907/2006
Issue Date: 11/15/2013

Section 1: Chemical Product and Company Identification

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Cat#: 00679

Part Name: POLY(ETHYLENE GLYCOL) MW 1 450

Supplier: Polysciences, Inc.
400 Valley Road
Warrington, PA 18976 USA
MSDS Telephone #215-343-6484 Emergency only #215-378-4526

Identified uses: Laboratory use, manufacture of substances

Section 2: Hazards Identification

Hazard Overview

Low hazard for usual industrial or commercial handling.

GHS Classification

Non-Hazardous

Signal word: non-hazard

Hazard and Precautionary Statements

H000 Low hazard for normal industrial use
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P305B IF IN EYES, Separate eyelids with finger tips.
P313 Get medical advice/attention.
P351 Rinse cautiously with water for several minutes.

NFPA Rating

Hazard Ratings:

These ratings are Polysciences' Inc. own assessments of the properties of the material using the ANSI/NFPA 704 Standard. Additional information can be found by consulting in the NFPA published ratings lists (List 325 and List 49).

If no data is listed the information is not available.

Health	Flammability	Reactivity
0	1	0

Section 3: Composition/ Information on Ingredients

Note: Items listed with a CASRN... number have no CAS# available.

Item#	Name	EINECS	CAS#	% in product
1	1,4-Dioxane	204-661-8	0000123911	0 - 5
2	Acetaldehyde	200-836-8	0000075070	0 - 5
3	Ethylene oxide	200-849-9	0000075218	0 - 5
4	Formaldehyde	200-001-8	0000050000	0 - 5
5	Poly(ethylene oxide)	Unknown	0025322683	95-100

Section 4: First Aid Measures

Contact medical personnel.

Flush eyes with flowing water for at least 15 minutes.

If swallowed, wash out mouth with water if person is conscious.

Separate eyelids with finger tips.

Wash skin with deluge of water for at least 15 minutes.

Section 5: Fire Fighting Measures

Flash point, deg F.: 475

Method: PMCC

UEL: no data LEL: no data

Autoignition temperature, deg. F.: no data

Flammability Classification: nap

Flame Propagation Rate: no data

Hazardous Combustion Products: aldehydes

Section 6: Accidental Release Measures

Any information listed below is to be considered in addition to internal guidelines for isolation of spill, containment of spill, removal of ignition sources from immediate area, and collection for disposal of spill by trained, properly protected clean up personnel.

No special measures are indicated.

Section 7: Handling and Storage

Store at room temp

Section 8: Exposure Controls/ Personal Protection

OSHA (ACGIH) Exposure Limits

	IDLH:	TWA		STEL		CEILING	
		ppm	mg/	ppm	mg/m3	ppm	mg/m3
CAS#: 0000050000	IDLH: 20						
OSHA		Not classifi	--	2/15 mi	NE	--	--
ACGIH		--	--	--	--	0.3 c	0.37
CAS#: 0000075070	IDLH: 2,000						
OSHA		Not classifi	360	--	--	--	--
ACGIH		--	--	--	--	25	45
CAS#: 0000075218	IDLH: 800						
OSHA		Not classifi	--	--	--	--	--
ACGIH		1	1.8	--	--	--	--
CAS#: 0000123911	IDLH: 500						
OSHA		ACGIH;CA	360	--	--	--	--
ACGIH		20	72	--	--	--	--
CAS#: 0025322683	IDLH: NE						
OSHA		NE	NE	NE	NE	NE	NE
ACGIH		NE	NE	NE	NE	NE	NE

The use of eye protection in the form of safety glasses with side shields and the use of skin protection for hands in the form of gloves are considered minimum and non-discretionary in work places and laboratories. Any recommended personal protection equipment or environmental equipment is to be considered as additional to safety glasses and gloves.

No special protection is indicated.

Chemical-resistant gloves should be worn whenever this material is handled. The glove material has to be impermeable and resistant to the product. Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough.

Rinse and remove gloves immediately after use. Wash hands with soap and water. All glove recommendations presume that the risk of exposure is through splash and not intentional immersion of the hands into the product.

Since glove permeation data does not exist for this material, no recommendation for the glove material can be given for the product.

Permeation data must be obtained from the glove manufacturer to determine if the glove is suitable for the task.

Section 9: Physical and Chemical Properties

Formula:	(C ₂ H ₄ O) _n H ₂ O	vapor pressure:	<0.01 mm Hg
Formula Weight:	nap	vapor density:	>10
boiling point:	>392	Specific gravity:	1.113
melting point:	117 F	ph:	no data
solubility:	70%	appearance:	white solid

Section 10: Stability and Reactivity

Chemical Stability stable

Conditions to Avoid: none

Incompatibility with other materials: none

Hazardous Decomposition Products: none

Hazardous Polymerization: will not occur

Section 11: Toxicological Information

Acute Data: no data

Subchronic data: no data

Section 12: Ecological Information

no data

Section 13: Disposal Considerations

The following chart lists the status of the chemical and its components in reference to 40 CFR Part 261.33. If the product is listed by code number the substance may be subject to special federal and state disposal regulations. If no codes are listed the material must be disposed in compliance with all Federal, State and Local Regulations.

CAS#	Waste Code	Regulated Name
0000050000	U122	Formaldehyde
0000075070	U001	Ethanal
0000075218	U115	Oxirane
0000123911	U108	1,4-Dioxane
0025322683	not listed	not listed

Section 14: Transportation Data

Proper Shipping Name NOT REGULATED

Chemical Name

UN

Class

PG

Section 15: Regulatory Information

All components of this product are on the TSCA public inventory.

All components of this product are on the TSCA public inventory.

Prop 65 - Column A identifies those items which are known to the State of California to cause cancer. Column B identified items which are known to the State of California to cause reproductive toxicity.

CAS#	Column A	Column B
0000050000	Yes	no
0000075070	Yes	no
0000075218	Yes	0000075218
0000123911	Yes	no
0025322683	no	no

State Regulatory Information :If a CAS# is listed below this material is subject to the listed state right-to-know requirements.

CAS#	
0000050000	not listed
0000075070	not listed
0000075218	not listed
0000123911	not listed
0025322683	not listed

Low acute toxicity and non-irritating. No specific antidote. Treat for control of symptoms.

SARA Toxic Release Chemicals(as defined in Section 313 of SARA Title III)

This list identifies the toxic chemicals, including their de minimis concentrations for which reporting is required under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA). The list is also referred to as the Toxics Release Inventory (TRI) List.

CAS#	Regulated name	de minimis conc. %	Rep. Thres.
0000050000	Formaldehyde	0.1	not listed
0000075070	Acetaldehyde	0.1	not listed
0000075218	Ethylene oxide	0.1	not listed
0000123911	Dioxane	0.1	not listed
0025322683	not listed	not listed	not listed

SARA Extremely Hazardous Substances and TPQs

This list includes hazardous chemicals as defined in 29 CFR 1910.1200(c); and extremely hazardous substances regulated under Section 302 of SARA Title III with their TPQs (in pounds), as listed in 40 CFR 355, Appendices A and B.

CAS#	Regulated name	TPQ (pounds)	EHS-RQ(pounds)
0000050000	Formaldehyde	500	100
0000075070	not listed	not listed	not listed

0000075218	Ethylene oxide	1,000	10
0000123911	not listed	not listed	not listed
0025322683	not listed	not listed	not listed

CERCLA

The hazardous substances, and their reportable quantities (RQs) are listed in the federal regulations at 40 CFR Part 302, Table 302.4. Release of a CERCLA hazardous substance in an amount equal to or greater than its RQ, in any 24-hour period, must be reported to the National Response Center at (800) 424-8802.

CAS#	Regulated name	RQ (pounds)
0000050000	Formaldehyde	100
0000075070	Not listed	Not listed
0000075070	Acetaldehyde	1,000
0000075070	Acetic aldehyde	Not listed
0000075070	Ethanal	1,000
0000075070	Ethyl aldehyde	Not listed
0000075218	Not listed	Not listed
0000075218	Ethylene oxide	10
0000075218	Oxirane	10
0000123911	Not listed	Not listed
0000123911	1,4-Diethylenedioxiide	100
0000123911	1,4-Diethyleneoxide	100
0000123911	1,4-Dioxane	100
0025322683	Not listed	Not listed

Section 16: Other Information

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END OF MSDS