

# Material Safety Data Sheet

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

## Section 1: Chemical Product and Company Identification

Page 1 of 3

Cat#: 06090

Part Name: POLY(ETHYLENIMINE) MW 50-100 000 30% AQUEOUS SOLUTION 30% AQUEOUS SOLUTION

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

Causes skin and eye irritation.

Harmful if inhaled, absorbed through skin or swallowed.

GHS Classification

Skin Irritant Cat 2, Acute Oral Toxicity Cat 4

Skin Irritant Cat 2, Eye Irritation Cat 2B

Signal word: Danger



Hazard and Precautionary Statements

H302 Harmful if swallowed.  
H315 Causes skin irritation.  
P285 In case of inadequate ventilation wear respiratory protection.  
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
1	0	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	Aziridine, homopolymer	Unknown	0009002986	31 - 40
2	Water	231-791-2	0007732185	71 - 80

## Section 4: First Aid Measures

Contact medical personnel.

Flush eyes with flowing water for at least 15 minutes.

Separate eyelids with finger tips.

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

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**Section 5: Fire Fighting Measures**

Flash point, deg F.: no data                      Method:  
UEL: no data            LEL: no data                      Autoignition temperature, deg. F.: no data  
Flammability Classification: no data                      Flame Propagation Rate: no data  
Hazardous Combustion Products: nitrogen oxides

**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**

		TWA		STEL		CEILING	
		ppm	mg/	ppm	mg/m3	ppm	mg/m3
CAS#: 0007732185	IDLH: NE						
OSHA		NE	NE	NE	NE	NE	NE
ACGIH		NE	NE	NE	NE	NE	NE
<hr/>							
CAS#: 0009002986	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.

Use process enclosures, local exhaust ventilation, or other engineering controls.

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<sub>2</sub>H<sub>5</sub>N)<sub>x</sub>                      vapor pressure: no data  
Formula Weight: no data                      vapor density: 1.04  
boiling point: no data                      Specific gravity: 0  
melting point: no data                      ph: no data  
solubility: soluble                      appearance: colorless to light yellow viscous liquid

**Section 10: Stability and Reactivity**

Chemical Stability stable  
Conditions to Avoid: none  
Incompatibility with other materials: no data  
Hazardous Decomposition Products: no data  
Hazardous Polymerization: will not occur

**Section 11: Toxicological Information**

Acute Data: LD50 oral mouse 8000 mg/kg  
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
0007732185	not listed	not listed
0009002986	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
0007732185	no	no
0009002986	no	no

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

CAS#	
0007732185	not listed
0009002986	not listed

**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.
0007732185	not listed	not listed	not listed
0009002986	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)
0007732185	not listed	not listed	not listed
0009002986	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)
0007732185	Not listed	Not listed
0009002986	Not listed	Not listed

**Section 16: Other Information**

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END OF MSDS