



# Polyethyleneimine, 30% in water: sc-358855



The Power to Question

## MATERIAL SAFETY DATA SHEET

HAZARD WARNINGS	RISK PHRASES	PROTECTIVE CLOTHING
	Irritating to skin, eyes, and the respiratory system.	

### Section I. Chemical Product and Company Identification

Chemical Name	Polyethyleneimine, 30% in water		
Catalog Number	sc-358855	Supplier	Santa Cruz Biotechnology, Inc. 2145 Delaware Avenue Santa Cruz, California 95060 800.457.3801 or 831.457.3800
CAS Number	9002-98-6		
Chemical Formula	(C <sub>2</sub> H <sub>8</sub> H <sub>2</sub> ) <sub>n</sub>	Emergency	<b>ChemWatch</b> <b>Within the US &amp; Canada: 877-715-9305</b> <b>Outside the US &amp; Canada: +800 2436 2255</b> <b>(1-800-CHEMCALL) or call +613 9573 3112</b>

### Section II. Composition and Information on Ingredients

Chemical Name	CAS Number	Percent (%)	TLV/PEL	Toxicology Data
Polyethyleneimine (ca. 30% in Water) <small>(for Biochemical Research)</small>	9002-98-6	Not available.	Not available.	Not available.

### Section III. Hazards Identification


Acute Health Effects	Irritating to eyes and skin on contact. Inhalation causes irritation of the lungs and respiratory system. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. Follow safe industrial hygiene practices and always wear proper protective equipment when handling this compound.
Chronic Health Effects	<b>CARCINOGENIC EFFECTS</b> : Not available. <b>MUTAGENIC EFFECTS</b> : Not available. <b>TERATOGENIC EFFECTS</b> : Not available. <b>DEVELOPMENTAL TOXICITY</b> : Not available. Repeated or prolonged exposure to this compound is not known to aggravate existing medical conditions.

### Section IV. First Aid Measures

Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
Skin Contact	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
Inhalation	If the victim is not breathing, perform mouth-to-mouth resuscitation. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, oxygen can be administered. Seek medical attention if respiration problems do not improve.
Ingestion	INDUCE VOMITING by sticking finger in throat. Lower the head so that the vomit will not reenter the mouth and throat. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive.

### Section V. Fire and Explosion Data

Flammability	May be combustible at high temperature.	Auto-Ignition	Not available.
Flash Points	Not available.	Flammable Limits	Not available.
Combustion Products	These products include toxic carbon oxides (CO, CO <sub>2</sub> ), nitrogen oxides (NO <sub>x</sub> ).		
Fire Hazards	Not available.		
Explosion Hazards	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.		
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. DO NOT use water jet. Consult with local fire authorities before attempting large scale fire-fighting operations.		

Section VI. Accidental Release Measures			
Spill Cleanup Instructions		Irritating material. Absorb with an inert material and put the spilled material in an appropriate waste disposal. Consult federal, state, and/or local authorities for assistance on disposal.	
Section VII. Handling and Storage			
Handling and Storage Information		IRRITANT. Keep away from heat. Mechanical exhaust required. When not in use, tightly seal the container and store in a dry, cool place. Avoid excessive heat and light. Do not breathe gas/fumes/ vapor/spray. Store at room temperature. Always store away from incompatible compounds such as oxidizing agents, acids.	
Section VIII. Exposure Controls/Personal Protection			
Engineering Controls		Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash station and safety shower is proximal to the work-station location.	
Personal Protection		Splash goggles. Lab coat. Vapor respirator. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product. Be sure to use a MSHA/NIOSH approved respirator or equivalent.	
			
Exposure Limits		Not available.	
Section IX. Physical and Chemical Properties			
Physical state @ 20°C		Liquid.	Solubility Fully miscible with water.
Specific Gravity		Not available.	
Molecular Weight		Not available.	Partition Coefficient Not available.
Boiling Point		Not available.	Vapor Pressure Not available.
Melting Point		Not available.	Vapor Density Not available.
Refractive Index		Not available.	Volatility Not available.
Critical Temperature		Not available.	Odor Not available.
Viscosity		Not available.	Taste Not available.
Section X. Stability and Reactivity Data			
Stability		This material is stable if stored under proper conditions. (See Section VII for instructions)	
Conditions of Instability		Avoid excessive heat and light.	
Incompatibilities		Reactive with oxidizing agents, acids, alkali metals, alkaline earth metals.	
Section XI. Toxicological Information			
RTECS Number		Not available.	
Routes of Exposure		Eye Contact. Ingestion. Inhalation.	
Toxicity Data		Not available.	
Chronic Toxic Effects		<b>CARCINOGENIC EFFECTS</b> : Not available. <b>MUTAGENIC EFFECTS</b> : Not available. <b>TERATOGENIC EFFECTS</b> : Not available. <b>DEVELOPMENTAL TOXICITY</b> : Not available. Repeated or prolonged exposure to this compound is not known to aggravate existing medical conditions.	
Acute Toxic Effects		Irritating to eyes and skin on contact. Inhalation causes irritation of the lungs and respiratory system. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. Follow safe industrial hygiene practices and always wear proper protective equipment when handling this compound.	
Section XII. Ecological Information			
Ecotoxicity		Not available.	
Environmental Fate		Not available.	

**Section XIII. Disposal Considerations**

## Waste Disposal

Recycle to process, if possible. Consult your local regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

**Section XIV. Transport Information**

## DOT Classification

Not a DOT controlled material (United States).

## PIN Number

Not applicable.

## Proper Shipping Name

Not applicable.

## Packing Group (PG)

Not applicable.

## DOT Pictograms

**Section XV. Other Regulatory Information and Pictograms**TSCA Chemical Inventory  
(EPA)

This compound is **ON** the EPA Toxic Substances Control Act (TSCA) inventory list.

WHMIS Classification  
(Canada)

On DSL.

## EINECS Number (EEC)

618-346-1

## EEC Risk Statements

R36/37/38- Irritating to eyes, respiratory system and skin.

## Japanese Regulatory Data

ENCS No. 7-741

**Section XVI. Other Information**

## Notice to Reader:

***The above information is believed to be correct but does not purport to be complete and should be used only as a guide. The burden of safe use of this material rests entirely with the user.***