

**SIGMA-ALDRICH****Material Safety Data Sheet**

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 Version 1.40

**Section 1 - Product and Company Information**

**Product Name** Polyoxyethylene bis(amine)  
**Product Number** P9906  
**Brand** Aldrich Chemical

**Company** Sigma-Aldrich  
**Street Address** 3050 Spruce Street  
**City, State, Zip, Country** SAINT LOUIS, MO 63103 US  
**Technical Phone:** 800-325-5832  
**Fax:** 800-325-5052

**Emergency Phone:** 314-776-6555**Section 2 - Composition/Information on Ingredient**

<b>Substance Name</b>	<b>CAS #</b>	<b>SARA 313</b>	<b>EC no</b>	<b>Annex I Index Number</b>
O,O'-BIS(2-AMINOETHYL)POLYETHYLENE GLYCOL	24991-53-5	Yes		
<b>Ingredient Name</b>	<b>CAS #</b>	<b>Percent</b>	<b>SARA 313</b>	
1,2-DIAMINOETHANE	107-15-3	<= 3.300 %	Yes	

**Formula**  
**Synonyms** Polyoxyethylene bis(amine)

**Section 3 - Hazards Identification****Emergency Overview**

Harmful.  
 Irritating to eyes, respiratory system and skin. May cause sensitization by inhalation and skin contact.  
 Target organ(s): Kidneys. Liver.

**HMS Rating**  
 Health: 3\* Flammability: 0 Reactivity: 0

**NFPA Rating**  
 Health: 3 Flammability: 0 Reactivity: 0

\*additional chronic hazards present.

For additional information on toxicity, please refer to Section 11.

**Section 4 - First Aid Measures**

**Oral Exposure**  
 If swallowed, wash out mouth with water provided person is conscious. Call a physician.

**Inhalation Exposure**  
 If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

**Dermal Exposure**

In case of contact, immediately wash skin with soap and copious amounts of water.

**Eye Exposure**

In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

**Section 5 - Fire Fighting Measures**

**Autoignition Temp:** N/A

**Extinguishing Media****Suitable**

Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

**Firefighting****Protective Equipment**

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

**Specific Hazard(s)**

Emits toxic fumes under fire conditions.

**Section 6 - Accidental Release Measures****Procedure(s) of Personal Precaution(s)**

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

**Methods for Cleaning Up**

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

**Section 7 - Handling and Storage****Handling****User Exposure**

Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

**Storage****Suitable**

Keep tightly closed. Store at 2-8°C.

**Section 8 - Exposure Controls / PPE****Engineering Controls**

Safety shower and eye bath. Mechanical exhaust required.

**Personal Protective Equipment****Respiratory**

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator.

**Hand**

Compatible chemical-resistant gloves.

**Eye**

Chemical safety goggles.

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**General Hygiene Measures**  
Wash thoroughly after handling.

### Section 9 - Physical/Chemical Properties

<b>Appearance</b>	
<b>Physical State</b>	Solid
<b>Molecular Weight</b>	N/A
<b>pH</b>	N/A
<b>BP/BP Range</b>	N/A
<b>MP/MP Range</b>	N/A
<b>Freezing Point</b>	N/A
<b>Vapor Pressure</b>	N/A
<b>Vapor Density</b>	N/A
<b>Saturated Vapor Conc.</b>	N/A
<b>SG/Density</b>	N/A
<b>Bulk Density</b>	N/A
<b>Odor Threshold</b>	N/A
<b>Volatile%</b>	N/A
<b>VOC Content</b>	N/A
<b>Water Content</b>	N/A
<b>Solvent Content</b>	N/A
<b>Evaporation Rate</b>	N/A
<b>Viscosity</b>	N/A
<b>Partition Coefficient</b>	N/A
<b>Decomposition Temp.</b>	N/A
<b>Flash Point °F</b>	N/A
<b>Flash Point °C</b>	N/A
<b>Explosion Limits</b>	N/A
<b>Flammability</b>	N/A
<b>Autoignition Temp</b>	N/A
<b>Solubility</b>	N/A

N/A = not available

### Section 10 - Stability and Reactivity

<b>Stability</b>
Stable.
Stable.
<b>Materials to Avoid</b>
Acids, Acid chlorides, Oxidizing agents, Acid anhydrides, Phosphorus halides

**Hazardous Decomposition Products**

**Hazardous Decomposition Products**

Carbon monoxide, carbon dioxide, and nitrogen oxides

**Hazardous Polymerization**  
**Hazardous Polymerization**  
Will not occur.

### Section 11 - Toxicological Information

<b>Route of Exposure</b>
<b>Skin Contact</b>
Causes skin irritation.
<b>Skin Absorption</b>
May be harmful if absorbed through the skin.
<b>Eye Contact</b>
Causes eye irritation.
<b>Inhalation</b>
Material is irritating to mucous membranes and upper respiratory tract
May be harmful if inhaled.
<b>Ingestion</b>
May be harmful if swallowed.
<b>Sensitization</b>
<b>Respiratory</b>
May cause allergic respiratory reaction.
<b>Skin</b>
May cause allergic skin reaction.

**Target Organ(s) or System(s)**  
Kidneys, Liver,

**Signs and Symptoms of Exposure**  
Repeated exposure may cause asthma  
Exposure can cause: Stomach pains, vomiting, diarrhea.

**RTECS Number:** N/A

### Section 12 - Ecological Information

No data available.

### Section 13 - Disposal Considerations

**Appropriate Method of Disposal of Substance or Preparation**

Contact a licensed professional waste disposal service to dispose of this material.  
Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.  
Observe all federal, state, and local environmental regulations.

### Section 14 - Transport Information

**DOT**

**Proper Shipping Name:** None

**Non-Hazardous for Transport** This substance is considered to be nonhazardous for transport.

**IATA**

**Non-Hazardous for Air Transport** Non-hazardous for air transport.

### Section 15 - Regulatory Information

**EU Additional Classification**

**Symbol of Danger:** Xn

**Indication of Danger**

Harmful.

**Risk Statements** R: 36/37/38 42/43

Irritating to eyes, respiratory system and skin. May cause sensitization by inhalation and skin contact.

**Safety Statements** S: 22 26 36/37 45

Do not breathe dust. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing and gloves. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

#### US Classification and Label Text

##### Indication of Danger

Harmful.

##### Risk Statements

Irritating to eyes, respiratory system and skin. May cause sensitization by inhalation and skin contact.

##### Safety Statements

Do not breathe dust. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing and gloves. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

##### US Statements

Target organ(s): Kidneys, Liver.

#### United States Regulatory Information

##### SARA Listed: Yes

Notes: This product is or contains a component that is subject to SARA313 reporting requirements.

#### Canada Regulatory Information

##### WHMIS Classification

This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: No

NDSL: No

#### Section 16 - Other Information

##### Disclaimer

For R&D use only. Not for drug, household or other uses.

##### Warranty

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. SigmaAldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2010 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

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