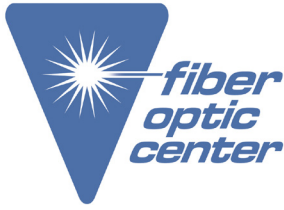


# SAFETY DATA SHEET (SDS)

**Manufacturer:**

ÅngströmBond

**Product Name:**

ÅngströmBond AB9559 Semi Rigid epoxy for Plastic Bonding (2.5G)

**Manufacturer Part Number:**

AB9559-2.5G

▶ Click here for more details on the ÅngströmBond AB9559 Semi Rigid epoxy for Plastic Bonding (2.5G)

AB9559 Hardener from ÅngströmBond  
Page 1 of 3**ADHESIVES**

Advanced Polymers for High Tech Applications

**1. MATERIAL IDENTIFICATION**

Product Name:

**AB9559 from ÅNGSTRÖMBOND HARDENER**

Emergency Phone:

For product emergencies involving spill, leak, fire, exposure, or accident call CHEMTREC at (800) 424-9300. For all other inquiries call **Fiber Optic Center™, Inc.** at (800) 473-4237.**2. COMPOSITION**

Hazardous Components	CAS No.	Exposure Limits		
		Percent	ACGIH TLV TWA	OSHA PEL TWA STEL
1-Propanamine, 3,3'-[oxybis(2,1-ethanedioxy)]bis-fatty acids, c18-unsatd, trimers, polymers with bisphenol a, bu glycidyl ether and epichlorohydrin	4246-51-9	35 - 40	NE	NE
cashew, nutshell liq., glycidyl ethers	96097-33-5	35 - 40	NE	NE
N-butyl Glycidyl Ether	171263-25-5	15 - 20	NE	NE
	2426-08-6	1 - 5	3 ppm	25 ppm 50 ppm 135 mg/m3 270 mg/m3

Abbreviations: N.E. = Not Established

**3. HEALTH HAZARDS****Primary Routes of Exposure:** Eyes: yes Skin: yes Inhalation: yes**Eye Contact:** Corrosive to the eyes and may cause severe damage including blindness. Eyes may become irritated.**Skin Contact:** Causes skin burns, irritation and possible allergic reaction. Skin may become itchy, red or irritated.**Ingestion:** Can burn mouth, throat and stomach.**Inhalation:** Prolonged or repeated inhalation may cause lung damage and/or central nervous system disturbances**4. FIRST AID MEASURES****Eyes:** Flush eyes thoroughly with water for at least 15 minutes while holding eyelids open. Seek medical attention.**Skin:** remove product from skin with dry cloth or paper towel, and wash exposed area with water and mild detergent..**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.**Ingestion:** Wash out mouth with water provided person is conscious. Never give anything by mouth to and unconscious person.**5. ACCIDENTAL RELEASE MEASURES****Small Spills:** Activate available exhaust ventilation equipment in the immediate spill area. Wipe up or absorb spilled material with paper towels or other absorbent material. Wash area with soapy water to remove residue. Collect absorbed material and water rinses in appropriate containers. Dispose of in accordance with current Federal, State, and local regulations.**Large Spills:** Dike area to contain spill. Take precautions as necessary to prevent contamination of ground and surface waters. Recover spilled material on adsorbent, such as sawdust or vermiculite, and sweep into closed containers for disposal. After all visible traces, including ignitable vapors, have been removed thoroughly wet vacuum the area. Do not flush to sewer. If area of spill is porous, remove as much contaminated earth and gravel, etc. as necessary and place in closed containers for disposal..

Spill response operations must be conducted in accordance with the provisions of OSHA 29 CFR 1910.120. Review the entire MSDS before proceeding with spill response.

**6. HANDLING AND STORAGE**

Minimize contact with unprotected skin and eyes and ensure that adequate ventilation is provided in the work area. Store material in a cool dry place away from heat and flames. Keep container closed when not in use, avoid contact with eyes and prolonged or repeated contact with skin. Maintain good housekeeping practices. Keep out of the reach of children and do not re-use this container.

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**Contact the professionals at Fiber Optic Center for a quote or to get more details.**23 Centre Street • New Bedford, MA 02740 USA • [focenter.com](http://focenter.com)508-992-6464 | (800) 473-4237 • [sales@focenter.com](mailto:sales@focenter.com)

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AB9559 hardener from ÅngströmBond  
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Adhesives

## 7. FIRE FIGHTING PROPERTIES

### FLAMMABLE PROPERTIES

**Flash Point:** > 212°F  
**Hazardous Decomposition Products:** carbon dioxide or carbon monoxide, aldehydes, acids, and other organic substances may be formed during combustion.

### EXTINGUISHING MEDIA and FIRE FIGHTING INSTRUCTIONS

When sufficiently large quantities are present, firefighters should be equipped with full bunker gear, including a positive pressure, NIOSH approved, self-contained breathing apparatus. Cool exposed containers with water to prevent pressure buildup. If large quantities are involved, evacuate area and fight fire from a safe distance.

### Unusual Fire and Explosion Hazards

Decomposition and combustion products may be toxic. Closed containers may violently rupture under fire condition.

**Extinguishing Media:** Use dry chemical, carbon dioxide, or an appropriate foam, or fire water spray.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Engineering / Ventilation Controls:** Provide effective mechanical exhaust ventilation to draw vapors, mists or fumes generated during processing away from the worker and prevent routine inhalation, especially during elevated temperature processing. Ventilation must be sufficient to maintain airborne levels of Section 2 chemicals below their PEL/TLV values.

**Respiratory Protection:** Use an appropriate, properly fitted respirator if exposures exceed PEL/TLV values. A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

**Skin Protection:** Wear impervious gloves and protective clothing as necessary to prevent skin contact.

**Eye Protection:** Wear chemical splash goggles or safety glasses with side shields.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance/State:** Amber Liquid  
**Odor:** amine  
**pH:** Not determined

**Boiling Point:** >374°F  
**Freezing Point:** Not determined  
**Specific Gravity@25°C:** 1.02

## 10. STABILITY AND REACTIVITY

**Chemical Stability:** Stable under normal conditions and use.

**Conditions and Materials to Avoid:** acidic, basic or oxidizing materials. Avoid storage in open containers, exposure to open flame Or uncontrolled exposure to heat, uncontrolled mixing with curing agents or exposure to incompatible substances.

**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, aldehydes, amines, aniline, acids and other organic substances may be formed during combustion.. The chemical nature and quantity of decomposition by products will Vary widely depending on the conditions of combustion.

**Hazardous Polymerization:** Uncontrolled mixing with resins may cause hazardous polymerization.

## 11. TOXICOLOGICAL INFORMATION

	Oral LD <sub>50</sub> (rat)	Dermal LD <sub>50</sub> (rabbit)	Inhalation LC <sub>50</sub> (rat)
1-Propanamine, 3,3'-[oxybis(2,1-ethanediyloxy)]bis-	3160 mg/kg	> 2500 mg/kg	
N-butyl Glycidyl Ether	2260 mg/kg	788 mg/kg	1030 ppm

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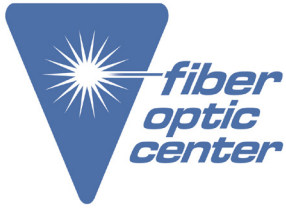
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AB9559 Hardener ÅngströmBond  
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Adhesives

## 11. TRANSPORTATION INFORMATION

	DOT	Road & Rail	Air	Vessel
Proper Shipping Name:	Amines, Liquid, Corrosive, N.O.S.			
Technical name:	Di-(3-aminopropyl) ether of diethylene glycol			
Primary Hazard class/ Division:	8			
UN/NA Number:	2735			
Packing Group:	II			

## 12. REGULATORY INFORMATION

### TSCA Status

The ingredients used in this product are included in the TSCA inventory.

1-Propanamine, 3,3'-[oxybis(2,1-ethanedioxy)]bis-	4246-51-9
fatty acids, c18-unsatd., trimers, polymers with bisphenol a, bu glycidyl ether and epichlorohydrin	96097-33-5
cashew, nutshell liq., glycidyl ethers	171263-25-5

### SARA TITLE III Information

ACUTE: Yes CHRONIC: Yes.

HMIS RATINGS: Health: 3 Fire: 1 Reactivity: 0

**Fiber Optic Center™, Inc.** urges each customer or recipient of this MSDS to study it carefully in order to become aware of and understand the hazards associated with the product. The reader should consider consulting reference works or individuals who are experts in ventilation, toxicology, and/or fire prevention, as necessary to use and understand the data contained in this MSDS.

To promote safe handling, customers and recipients should: 1 – notify their employees, agents, contractors, and others whom they know or suspect will use this material or the information in this MSDS and any other information regarding hazards or safety; 2 – furnish this same information to each of their customers for the product; and 3 – request their customers to notify their employees, customers and other users of the product of this information.

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