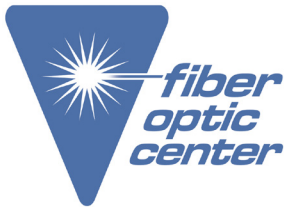


# SAFETY DATA SHEET (SDS)



**Manufacturer:**  
ÅngströmBond®

**Product Name:**  
ÅngströmBond® AB9190 Low Viscosity Clear Epoxy, Room Temperature Cure (2.5g)

**Manufacturer Part Number:**  
AB9190-2.5G

▶ Click here for more details on the ÅngströmBond® AB9190 Low Viscosity Clear Epoxy, Room Temperature Cure (2.5g)



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ÅngströmBond® AB9190 Hardener  
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**ADHESIVES**

## 1. MATERIAL IDENTIFICATION

**Product Name:**

ÅNGSTRÖMBOND® AB9190 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

### Exposure Limits

Hazardous Components	CAS No.	Percent	ACGIH TLV-TWA	OSHA PEL
Polyglycol Amine	Proprietary	< 100	N.E.	N.E.

Abbreviations: N.E. = Not Established

## 3. HEALTH HAZARDS IDENTIFICATION

**Primary Routes of Exposure:** Eyes: No. Skin: Yes Inhalation: Yes

**Eye Contact:** Corrosive. May cause burns and permanent injury. May cause lacrimation, conjunctivitis, and corneal edema when absorbed into the tissue of the eye from the atmosphere.

**Skin Contact:** Possible risk of irreversible effects in contact with the skin.

**Inhalation:** May cause irritation.

**Ingestion:** Moderately toxic. Will burn mucosae and stomach.

**Other:** Asthma, chronic respiratory diseases, eye diseases, and skin disorders may be aggravated by exposure to this product.

## 4. FIRST AID MEASURES

**Eyes:** Flush eyes thoroughly with water, for at least 15 minutes, while holding eyelids open. Seek immediate medical attention.

**Skin:** Generally does not irritate the skin. Obtain medical attention.

**Inhalation:** Remove to fresh air, and provide oxygen or artificial respiration if needed. Obtain immediate medical attention.

**Ingestion:** Seek medical attention and show this container or label.

## 5. FIRE FIGHTING MEASURES

### FLAMMABLE PROPERTIES

**Flash Point:** > 261°F, estimated

**Explosive Limits:** Not determined

**Auto - Ignition Temperature:** Not determined

**Hazardous Decomposition Products:** Nitrogen oxides

### 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.

**Extinguishing Media:** CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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11/2013

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**Contact the professionals at Fiber Optic Center for a quote or to get more details.**

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ÅngströmBond® AB9190 Hardener  
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**Adhesives**

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## 6. ACCIDENTAL RELEASE MEASURES

Do not allow to enter sewers/ surface or ground water. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

## 7. HANDLING AND STORAGE

Store in cool, dry place in tightly closed receptacles. Use only in well ventilated areas. Keep receptacle tightly sealed.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Engineering / Ventilation Controls:** General ventilation may be acceptable under most conditions, although local ventilation is required to control exposure whenever vapors, mists, or dusts are generated.

**Respiratory Protection:** When local ventilation is unavailable and airborne limits are exceeded, a NIOSH-approved respirator for organic vapors, a supplied-air respirator, or a self-contained breathing apparatus is required.

**Skin Protection:** Impervious gloves and protective clothing should be worn as necessary.

**Eye Protection:** Chemical splash goggles or safety glasses with side shields should be worn as appropriate.

## 9. STABILITY AND REACTIVITY

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

**Conditions and Materials to Avoid:** Reacts with acids. Reacts with strong acids.

**Hazardous Decomposition Products:** Nitrogen oxides, Irritant gases/vapors.

**Hazardous Polymerization:** Will not occur.

## 10. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance / State:</b>	Clear-colored liquid	<b>Boiling Point:</b>	358°F
<b>Odor:</b>	Mild ammonia odor	<b>Freezing Point:</b>	Not determined
<b>Specific Gravity:</b>	Not determined	<b>Vap. Pressure (mmHG):</b>	< 0.01
<b>Solubility in Water:</b>	Not miscible	<b>Vap. Density (air = 1):</b>	Not determined

## 11. TOXICOLOGICAL INFORMATION

This product is not known to have undergone toxicological testing.

## 12. DISPOSAL CONSIDERATIONS

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Disposal must be made according to official regulations.

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Adhesives

## 13. TRANSPORTATION INFORMATION

<b>DOT/ATA :</b> ID: UN1760	<b>Proper Shipping Name:</b> polyglycolamine, Liquid, Corrosive, N.O.S. <b>Label:</b> Corrosive	<b>Hazard Class:</b> 8	<b>Packaging Group:</b> III
<b>Land transport UN:</b> 1760	<b>ADR/RID:</b> Corrosive	<b>Proper Shipping Name:</b> polyglycolamine, Liquid, Corrosive, N.O.S. <b>ADR/RID Class:</b> 8	<b>Packaging Group:</b> III <b>Danger Code:</b> 80
<b>Marine transport UN:</b> 1760	<b>IMDG:</b> Corrosive	<b>Proper Shipping Name:</b> polyglycolamine, Liquid, Corrosive, N.O.S. <b>IMDG Class:</b> 8	<b>Packaging Group:</b> III <b>EMS number:</b> F-A,S-B
<b>Marine Pollutant:</b> No			
<b>Air Transport ID:</b> 1760	<b>ICAO-TI and IATA-DGR Label:</b> Corrosive	<b>Proper Shipping Name:</b> polyglycolamine, Liquid, Corrosive, N.O.S. <b>Hazard Class:</b> 8	<b>Packaging Group:</b> III

## 14. REGULATORY INFORMATION

### TSCA

The chemical components of this product are included in the TSCA Chemical Substance Inventory, as required.

### SARA TITLE III

#### Section 313 – Toxic Chemicals

Pursuant to Section 313, this product does not contain any chemicals in a concentration equal to or greater than the *de minimis* level.

HMIS Ratings: Health: 2 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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