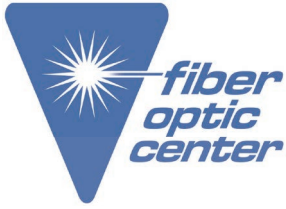


SAFETY DATA SHEET (SDS)

**Manufacturer:**

ÅngströmBond

Product Name:ÅngströmBond® AB9190 Low Viscosity Clear Epoxy,
Room Temperature Cure (8oz)**Manufacturer Part Number:**

AB9190-8OZ

▶ Click here for more details on the ÅngströmBond® AB9190 Low Viscosity Clear Epoxy, Room Temperature Cure (8oz)

**ÅNGSTRÖMBOND®**

Advanced Polymers for High Tech Applications

ÅngströmBond® AB9190 Hardener
Page 1 of 3**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.

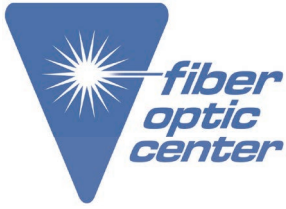
Fiber Optic Center™, Inc., 23 Centre Street, New Bedford, MA, 02740-6322, USA
Toll Free: (800) IS-FIBER or (800) 473-4237 • Phone: (508) 992-6464 • Fax: (508) 991-8876 • Website: www.focenter.com

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E-mail: sales@focenter.com

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ADVANCED POLYMERS FOR HIGH TECH APPLICATIONS

ÅngströmBond® AB9190 Hardener
Page 2 of 3**Adhesives****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

Appearance / State: Clear-colored liquid

Odor: Mild ammonia odor

Specific Gravity: Not determined

Solubility in Water: Not miscible

Boiling Point: 358°F

Freezing Point: Not determined

Vap. Pressure (mmHG): < 0.01

Vap. Density (air = 1): 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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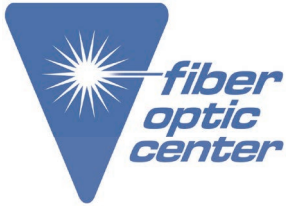
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ADVANCED POLYMERS for High Tech Applications

ÅngströmBond® AB9190 Hardener
Page 3 of 3

ADHESIVES

13. TRANSPORTATION INFORMATION

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