

# 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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**Adhesives**

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## 1. MATERIAL IDENTIFICATION

**Product Name:**

ÅNGSTRÖMBOND® AB9190 RESIN

**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.	Percent	Exposure Limits	
			ACGIH TLV-TWA	OSHA PEL
Diglycidyl Ether Bisphenol A resin	Proprietary	NE	NE	NE
Reactive diluent	Proprietary	NE	NE	NE

Abbreviations: N.E. = Not Established

## 3. HEALTH HAZARDS IDENTIFICATION

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

**Eye Contact:** May cause severe irritation.

**Skin Contact:** May cause irritation, allergic reactions, and sensitization.

**Inhalation:** May cause irritation

**Ingestion:** May produce CNS depression.

**Other:** Preexisting skin and eye disorders may be aggravated by exposure to this product. Individuals with preexisting skin or lung allergies may experience increased allergy symptoms upon exposure to this product.

## 4. FIRST AID MEASURES

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

**Skin:** Wipe excess from skin, and flush the affected area with water. Follow by washing with soap and water.

**Inhalation:** Remove to fresh air and obtain medical attention. In case of unconsciousness place patient stably in side position for transportation.

**Ingestion:** If symptoms persist obtain medical attention.

## 5. FIRE FIGHTING MEASURES

### FLAMMABLE PROPERTIES

**Flash Point:** > 164°F, estimated

**Explosive Limits:** Not determined

**Auto - Ignition Temperature:** Not determined

**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, aldehydes, acids, and other organic substances.

### 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. Fire-exposed containers may be cooled with water.

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

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Website: [www.focenter.com](http://www.focenter.com)

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## 6. ACCIDENTAL RELEASE MEASURES

Inform respective authorities in case of seepage into water course or sewage system. 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 12. Ensure adequate ventilation.

## 7. HANDLING AND STORAGE

Store in cool, dry place in tightly closed receptacles. Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols. 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:** Tightly sealed goggles.

## 9. STABILITY AND REACTIVITY

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

**Conditions and Materials to Avoid:** Reacts with amines.

**Hazardous Decomposition Products:** Irritant gases/vapors.

**Hazardous Polymerization:** Will not occur.

## 10. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance / State:</b>	clear liquid	<b>Boiling Point:</b>	Not determined
<b>Odor:</b>	mild	<b>Freezing Point:</b>	Not determined
<b>pH:</b>	Not determined	<b>Specific Gravity:</b>	Not determined
<b>Vap. Pressure (mmHG):</b>	3	<b>Solubility in Water:</b>	Negligible
<b>Density</b>	1.130 g/cm <sup>3</sup>		

## 11. TOXICOLOGICAL INFORMATION

<b>Acute toxicity:</b>		<b>reactive diluent (epoxy functional)</b>
LD/LC50 values that are relevant for classification:		
Inhalative LC50/4 h	3500 mg/l (mouse)	Oral LD50 2050 mg/kg (rat)
Oral LD50	5000 mg/kg (rat)	Dermal LD50 2520 mg/kg (rabbit)
Dermal LD50	2000 mg/kg (rabbit)	

## 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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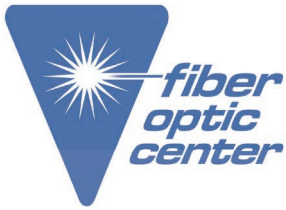
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## 13. TRANSPORTATION INFORMATION

DOT/IATA Proper Shipping Name: Not regulated.

## 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.

#### Sections 311/312 – Specific hazard chemical listings

Reactive diluent( epoxy functional) A = Acute Health Hazard; F = Fire Hazard 3-10%

HMIS Ratings: Health : 3 Fire: 2 Reactivity: 0

## 15. Ecological Information

### Ecotoxicological effects:

• Remark: Toxic for fish

### • General notes:

Water hazard class 2 (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.  
Also poisonous for fish and plankton in water bodies.  
Toxic for aquatic organisms

**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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