

# SAFETY DATA SHEET (SDS)



**Manufacturer:**  
ÅngströmBond®

**Product Name:**  
ÅngströmBond® AB9047 Optical Adhesive, UV Cure (3cc Syringe)

**Manufacturer Part Number:**  
AB9047-3CC

▶ Click here for more details on the ÅngströmBond® AB9047 Optical Adhesive, UV Cure (3cc Syringe)



Advanced Polymers for High Tech Applications

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## Adhesives

### 1. MATERIAL IDENTIFICATION

Product Name:

ÅNGSTRÖMBOND 9047

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		OTHER	
			ACGIH TLV-TWA	OSHA PEL	TWA	PEL
Acrylated Urethane Oligomer	Proprietary	40 – 70	N.E.	N.E.	N.E.	N.E.
Acrylated Monomer Blend	13048-33-4	25 – 45	N.E.	N.E.	N.E.	N.E.
Photoinitiator Blend	Proprietary	1 – 6	N.E.	N.E.	N.E.	N.E.

Abbreviations: N.E. = Not Established

### 3. HEALTH HAZARDS IDENTIFICATION

Primary Routes of Exposure:

Eyes: Yes

Skin: Yes

Inhalation: Yes

**Eye Contact:** May cause chemical burn in eyes—damage irreversible.

**Skin Contact:** May cause moderate skin injury (reddening and swelling) and/or sensitization. Prolonged contact may cause blister formation (burns). Since irritation may not occur immediately, contact can go unnoticed.

**Inhalation:** Possible inhalation irritant.

**Ingestion:** Non-toxic.

**Other:** Preexisting skin, eye, and respiratory 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 at least 20-30 minutes while holding eyelids open. Seek medical attention.

**Skin:** Remove contaminated clothing, wipe excess from skin, and wash with soap and water. Wash contaminated clothing thoroughly before reuse. If irritation persists after the affected area is washed, obtain medical attention.

**Inhalation:** In case of exposure to a high concentration of vapor or mist, remove person to fresh air. If breathing has stopped, administer artificial respiration and seek medical attention.

**Ingestion:** Obtain medical attention.

### 5. ACCIDENTAL RELEASE MEASURES

Blanket with firefighting foam. Cover with inert, absorbent material and remove to disposal container.

### 6. HANDLING AND STORAGE

Store indoors at 20-25°C in original, unopened containers. Do not blanket containers with dry nitrogen or argon. Oxygen/air blanket recommended.

**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](http://www.focenter.com)

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E-mail: [sales@focenter.com](mailto:sales@focenter.com)

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

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## ADHESIVES

### 7. FIRE FIGHTING MEASURES

#### FLAMMABLE PROPERTIES

Flash Point:	> 100°C, (Tag Closed Cup)
Explosive Limits:	Lower: Unknown Upper: Unknown Not determined
Auto - Ignition Temperature:	Not determined
Hazardous Decomposition Products:	Carbon 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. Fire-exposed containers may be cooled with water.

**Unusual Fire and Explosion Hazards:** High temperatures and fire conditions may cause rapid and uncontrolled polymerization which can result in explosions and the violent rupture of storage vessels or containers. Avoid using a stream of water to control fires since frothing can occur.

**Extinguishing Media:** Use carbon dioxide, dry chemical, foam, or water spray

### 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

<b>Engineering / Ventilation Controls:</b>	General ventilation may be acceptable under most conditions, although local ventilation is required to control exposure whenever vapors, mists, or dusts are generated. Eye wash stations should be readily available.
<b>Respiratory Protection:</b>	When exposed to aerosols or vapors, use full face organic vapor cartridge respirator with particulate pre-filter. In emergency situations, or when used in confined spaces, use self-contained breathing apparatus or other air supplied full-face respirator.
<b>Skin Protection:</b>	Wear impervious, neoprene, gloves. Safety shower.
<b>Eye Protection:</b>	Chemical splash goggles or full face shield. Eye wash stations.

### 9. STABILITY AND REACTIVITY

<b>Chemical Stability:</b>	Unstable.
<b>Conditions and Materials to Avoid:</b>	Polymerization initiators including peroxides, strong oxidizing agents, copper, copper alloys, carbon steel, iron, rust and strong bases. Also avoid heat, oxidizing conditions, ultraviolet light and inert gas blanketing.
<b>Hazardous Decomposition Products:</b>	Carbon oxides.
<b>Hazardous Polymerization:</b>	May occur.

### 10. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance / State:</b>	Clear yellow liquid	<b>Boiling Point:</b>	More than 100°C
<b>Odor:</b>	mild acrylate odor	<b>Freezing Point:</b>	Not determined
<b>pH:</b>	Does not apply	<b>Specific Gravity:</b>	1.05
<b>Vap. Pressure (mmHg):</b>	Less than 0.01mm @ 25°C	<b>Solubility in Water:</b>	Partially Soluble
<b>Vap. Density (air = 1):</b>	Not determined		

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

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ADHESIVES

#### 11. DISPOSAL CONSIDERATIONS

Incinerate following EPA and local regulations. Not a RCRA hazardous material.

#### 12. TRANSPORTATION INFORMATION

<b>DOT:</b>	<b>Proper Shipping Name:</b>	Not regulated	<b>IATA:</b>	<b>Proper Shipping Name:</b>	Not regulated
	<b>Hazard Class:</b>	Not regulated		<b>Hazard Class:</b>	Not regulated
	<b>ID Number:</b>	None		<b>UN or ID:</b>	None
	<b>Marine Pollutant:</b>	None			

#### 13. 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 ant concentration equal to or greater than the *de minimis* level.

##### Section 311/312 – Hazard Categories

<b>Fire Hazard:</b>	Yes	<b>Immediate (Acute) Health Hazard:</b>	Yes
<b>Reactivity Hazard:</b>	Yes	<b>Delayed (Chronic) Health Hazard:</b>	No
<b>Sudden Release of Pressure Hazard:</b>	No		

<b>NFPA Hazards:</b>	Health: 1	Flammability: 1	Reactivity: 1
<b>HMS Hazards:</b>	Health: 1	Flammability: 1	Reactivity: 1

STATE REGULATIONS / RIGHT TO KNOW

**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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