

# SAFETY DATA SHEET (SDS)



**Manufacturer:**  
ÅngströmBond®

**Product Name:**  
ÅngströmBond® AB9098 Optical Adhesive, UV Cure (3cc Syringe)

**Manufacturer Part Number:**  
AB9098-3CC

▶ Click here for more details on the ÅngströmBond® AB9098 Optical Adhesive, UV Cure (3cc Syringe)



**ÅNGSTRÖMBOND®**

ADVANCED POLYMERS for High Tech Applications

AB9098 from ÅngströmBond  
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**ADHESIVES**

## 1. MATERIAL IDENTIFICATION

Product Name:

**AB9098 from ÅNGSTRÖMBOND**

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	OSHA PEL	OTHER
Isobornyl methacrylate	7534-94-3	25 - 50	N.E.	N.E.	N.E.
2-Hydroxyethyl methacrylate	868-77-9	25 - 50	N.E.	N.E.	N.E.
Urethane Methacrylate Oligomer	Proprietary	25 - 50	N.E.	N.E.	N.E.
Acrylic Acid	79-10-7	1 - 5	2 ppm	N.E.	N.E.
Visible photoinitiator	Proprietary	1 - 5	N.E.	N.E.	N.E.

Abbreviations: N.E. = Not Established

All hazardous ingredients are listed in the TCSA inventory as required.

## 3. HEALTH HAZARDS IDENTIFICATION

Primary Routes of Exposure:

Eyes: Yes

Skin: Yes

Inhalation: Yes

**Eye Contact:** May cause irritation.

**Skin Contact:** May cause irritation and sensitization on contact.

**Inhalation:** May cause irritation.

**Ingestion:** Effects are not known.

## 4. PERSONAL PROTECTION

**Eyes:** Splash proof Chemical safety glasses with side shields are recommended.

**Skin:** Avoid skin contact. Wear gloves and impervious protective clothing if frequent direct contact is likely. Glove material should be selected based on penetration time. Check with the manufacturer for exact times.

**Inhalation:** Local ventilation should be provided if general ventilation is not sufficient to keep vapor or mist concentrations below permissible exposure limits. Follow OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if permissible exposure limits are exceeded, if irritation occurs or other symptoms are experienced.

## 5. ACCIDENTAL RELEASE MEASURES

Mount respiratory protective device. Wear protective clothing. Wear suitable gloves and eye/face protection. Inform authorities in case of seepage into water course or sewage system. Do not allow entry into sewers, surface or ground water. Absorb with liquid binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.

**Fiber Optic Center™, Inc.**, 23 Centre Street, New Bedford, MA, 02740-6322, USA  
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**Adhesives**

## 6. HANDLING AND STORAGE

**Storage:** Store in unopened original receptacles. Keep tightly sealed. Protect from exposure to light. Avoid loss of dissolved air, loss of inhibitor, and contamination with incompatible materials.

**Handling:** Keep away from heat and direct sunlight. Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols. Keep respiratory devices available.

## 7. FIRE FIGHTING PROPERTIES

### FLAMMABLE PROPERTIES

Flash Point:	> 101°C (214°F)
Explosive Limits (% volume in air):	Not applicable.
Auto-Ignition Temperature:	Not applicable.
Hazardous Thermal Decomposition:	Toxic fumes (oxides of carbon and nitrogen) may be evolved upon exposure to heat or open flame.

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

## 8. EMERGENCY TREATMENT PROCEDURES

<b>Inhalation:</b>	Remove affected person to fresh air. Seek medical attention
<b>Ingestion:</b>	Low toxicity; Get medical attention.
<b>Skin Protection:</b>	Wash thoroughly with soap and water.
<b>Eye Protection:</b>	Immediately flush eyes with water for at least 15 minutes. Get medical attention.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance/State:</b>	Liquid	<b>Boiling Point:</b>	Not determined
<b>Odor:</b>	Characteristic	<b>Freezing Point:</b>	Not determined
<b>pH:</b>	Not determined	<b>Specific Gravity:</b>	Not determined
<b>Vap. Pressure (mmHg):</b>	Not determined	<b>Solubility in Water:</b>	Insoluble
<b>Vap. Density (air = 1):</b>	Not determined	<b>Evaporation Rate (Ether = 1):</b>	Not determined

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability:</b>	Stable.
<b>Hazardous Decomposition Products:</b>	None.
<b>Hazardous Polymerization:</b>	May occur.
<b>Incompatibility:</b>	Oxidizers, amines, strong Lewis or mineral acids, thiosulfates. Smoke and toxic fumes may be evolved as a result of uncontrolled exothermic reaction of large masses of material reacting with curing agents, such as peroxides, amines or exposure to light.

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Adhesives

## 11. REGULATORY INFORMATION

### US FEDERAL REGULATIONS

TSCA: All Ingredients

**SARA Title III Information**  
Section 313 – Toxic Chemicals:  
Acrylic acid: Cas# 79-10-7  
Methanol: Cas# 67-56-1

DOT/IATA: Not restricted

<b>NFPA:</b>	Health: 2	Flammability: 1	Reactivity: 1
<b>HMIS:</b>	Health: 2	Flammability: 1	Reactivity: 1

### STATE REGULATIONS / RIGHT TO KNOW

<b>IARC:</b>	Acrylic acid: 3
<b>TLV:</b>	Acrylic acid: A4
<b>OSHA-Ca</b>	Visible photoinitiator

## 12. TOXICITY

**Acute toxicity**  
7534-94-3 Isobornyl methacrylate

Oral	LD50 > 2000 mg/kg (rat)
Dermal	LD50 > 3000 mg/kg (rabbit)

**868-77-9 2-Hydroxyethyl methacrylate**

Oral	LD50 5050 mg/kg (rat)
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**79-10-7 Acrylic acid**

Oral	LD50 250 mg/kg (rat)
Dermal	LD50 280 mg/kg (rabbit)

**Ecological Information**  
Harmful to fish  
Slightly hazardous to water

**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.

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