



**Manufacturer:**  
ÅngströmBond®

**Product Name:**  
ÅngströmBond® AB9088 Plastic Bonding Adhesive, UV Cure (3cc Syringe)

**Manufacturer Part Number:**  
AB9088-3CC

▶ Click here for more details on the ÅngströmBond® AB9088 Plastic Bonding Adhesive, UV Cure (3cc Syringe)



ADVANCED POLYMERS for High Tech Applications

SDS # AB 9088

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Adhesives

## Safety Data Sheet

according to HazCom 2012

**SDS #: AB 9088**

Issue Date: 9/18/2016

Revision Date: 10/13/2025

### Section 1: Identification

**GHS Product Identifier/Name**

ÅngströmBond® AB 9088

**Other means of identification**

Product Code

AB 9088

Other means of identification

Not available

**Recommended use of the chemical and restrictions on use**

Identified Uses

Adhesive

**Details of the supplier of the Safety Data Sheet**

Supplier Address

Fiber Optic Center, Inc.  
23 Centre Street  
New Bedford, MA 02740-6322 USA  
Tel: 1-508-992-6464  
Fax: 1-508-991-8876

**Emergency Telephone**

CHEMTREC 1-800-424-9300 (24 hrs)

For product emergencies involving spill, leak, fire exposure or accident please contact CHEMTREC.  
For all other inquiries please contact Fiber Optic Center, Inc.™ at 1-800-473-4237

### Section 2: Hazard(s) Identification

**Emergency Overview:**

Physical State- Liquid (gel)

Odor- Characteristic

Color- Colorless

Appearance- Transparent

**Classification of the Substance or mixture:**

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute Toxicity – Oral

Category 4

Acute Toxicity – Inhalation (Gases)

Category 4

Skin corrosion/irritation

Category 2

Serious eye damage/eye irritation

Category 1

Skin sensitization

Category 1A

Reproductive toxicity

Category 2

Specific target organ toxicity (single exposure)

Category 3

Target Organ Effects

Respiratory system, EYES, Skin.

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## Section 2: Hazard(s) Identification

Continued

### GHS Label Elements:

This product is classified and labeled according to the Globally Harmonized System (GHS).

### Hazard Pictograms:



Signal word:

DANGER

### Hazard Statements:

H302 – Harmful if swallowed  
H315 – Causes skin irritation  
H317 – May cause an allergic skin reaction  
H318 – Causes serious eye damage  
H332 – Harmful if inhaled  
H335 – May cause respiratory irritation  
H336 – May cause drowsiness or dizziness  
H361 – Suspected of damaging fertility or the unborn child

### Precautionary statements:

#### Prevention:

Avoid breathing dust/fume/gas/mist/vapors/spray  
Wash face, hands and any exposed skin thoroughly after handling  
Do not eat, drink or smoke when using this product  
Use only outdoors or in a well-ventilated area  
Wear protective gloves/protective clothing/eye protection/face protection

#### Response:

IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation or rash occurs: Get medical advice/attention.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth

#### Storage:

Store in a well-ventilated place. Keep container tightly closed

#### Disposal:

Dispose of contents/container to an approved waste disposal plant.

### Other Information:

#### Unknown acute toxicity

0 % of the mixture consists of ingredient(s) of unknown toxicity

Testing for acute and chronic effects determined no environmental classification is required

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Advanced Polymers for High Tech Applications

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### Section 3: Composition / Information on Ingredients

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

#### Substances:

Chemical Name	CAS No.	%	Trade Secret	Classification (Reg. 1272/2008)
Methacrylic ester	Proprietary	10-24	*	STOT SE 3 (H335) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Aquatic Chronic 3 (H412) Aquatic Acute 2 (H401)
N, N-Dimethylacrylamide	2680-03-7	10-24	*	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 3 (H331) Eye Dam. 1 (H318) Flam. Liq. 4 (H227)
2-Hydroxyethyl methacrylate	868-77-9	5-9	*	Skin Irrit. 2 (H315) Eye Irrit. 2A (H319) Skin Sens. 1 (H317)
Acrylic acid	79-10-7	1-<3	*	Flam. Liq. 3 (H226) Acute Tox. 4 (H302) Acute Tox. 4 (H312) Acute Tox. 4 (H332) Skin Corr. 1 (H314) Aquatic Acute 1 (H400)
Photoinitiator	Proprietary	1-<3	*	Acute Tox. 4 (H302) Aquatic Chronic 2 (H411)
Visible Photoinitiator	Proprietary	<1	*	Repr. 2 (H361f) Aquatic Chronic 2 (H411)
Silane Coupling Agent	Proprietary	<1	*	Skin Sens. 1 (H317)

Remaining ingredients are not considered hazardous in accordance with the Globally Harmonized System (GHS)

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

### Section 4: First-Aid Measures

#### Description of first aid measures:

##### General advice

IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.

##### Eye contact

Flush eyes with water for at least 15 minutes. Get medical attention if eye irritation develops or persists.

##### Skin Contact

Wash off immediately with plenty of water, get medical attention if irritation develops and persists.

##### Inhalation

Remove to fresh air, if symptoms persist, call a physician.

##### Ingestion

If swallowed, Rinse mouth, Get medical attention.

##### Self-protection of the first aider

Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

#### Most important symptoms and effects, both acute and delayed

**Main Symptoms:** No information available.

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#### Section 4: First-Aid Measures

Continued

##### Indication of any immediate medical attention and special treatment needed

**Note to physicians**  
Treat symptomatically.

#### Section 5: Fire-Fighting Measures

##### Extinguishing Media:

**Suitable extinguishing media**  
Use CO<sub>2</sub>, dry chemical, or foam.

**Unsuitable extinguishing media**  
Do not use a solid water stream as it may scatter and spread fire.

**Specific hazards arising from the chemical**  
Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), dense black smoke.

**Hazardous combustion products**  
Hazardous decomposition products due to incomplete combustion.

**Explosion data**  
**Sensitivity to Mechanical Impact** None.  
**Sensitivity to Static Discharge** None.

**Protective equipment and precautions for firefighters**  
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### Section 6: Accidental Release Measures

##### Personal precautions, protective equipment and emergency procedures:

**Personal precautions**  
Ensure adequate ventilation. Wear protective gloves/clothing and eye/face protection.

##### Environmental precautions:

**Environmental precautions**  
Do not allow material to contaminate ground water system. Try to prevent the material from entering drains or water courses. See Section 12 for additional Ecological Information. Local authorities should be advised if significant spillages cannot be contained.

**Other Information**  
See Section 12 for additional Ecological Information.

##### Methods and material for containment and cleaning up:

**Methods for containment**  
Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up**  
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

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### Section 7: Handling and Storage

#### Precautions for safe handling:

##### **Advice on safe handling**

Handle in accordance with good industrial hygiene and safety practice, ensure adequate ventilation, protect from light.

#### Conditions for safe storage, including any incompatibilities:

##### **Technical measures and storage conditions**

Keep container tightly closed in a dry and well-ventilated place, protect from light.

##### **Incompatible products**

Amines, Strong oxidizing agents, Strong acids, Strong bases, Oxygen scavengers, Thiosulfates.

### Section 8: Exposure Controls / Personal Protection

#### Control Parameters:

##### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Acrylic Acid 79-10-7 (1-3 %)	TWA: 2 ppm S*	(vacated) TWA: 10 ppm (vacated) TWA: 30 mg/m <sup>3</sup> S*	TWA: 2 ppm TWA: 6 mg/m <sup>3</sup>

ACGIH (American Conference of Governmental Industrial Hygienists)

TLV - Threshold Limit Value

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

PEL - Permissible Exposure Limits

NIOSH IDLH

Immediately Dangerous to Life or Health

#### Appropriate engineering controls:

##### **Engineering Measures**

Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

#### Individual protection measures, such as personal protective equipment

##### **Eye/face protection**

Safety glasses with side-shields, if splashes are likely to occur, wear: Goggles.

##### **Skin and body protection**

Wear protective gloves and protective clothing.

##### **Respiratory protection**

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required, do not breathe vapors, mist or gas.

##### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice, when using do not eat, drink or smoke, Wear suitable gloves and eye/face protection, Wash hands before breaks and at the end of workday, Regular cleaning of equipment, work area and clothing is recommended.

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### Section 9: Physical and Chemical Properties

#### Information on basic physical and chemical properties:

Physical state	Liquid (gel)
Appearance	Transparent
Color	Colorless
Odor	Characteristic
Odor threshold	No information available

Property	Values	Remarks / • Method
pH		No information available
Melting point / freezing point		No information available
Boiling point / boiling range		No information available
Flash point	101 °C / 214 °F	
Evaporation rate		No information available
Flammability (solid, gas)		No information available
Flammability Limit in Air		
Upper flammability limit -		
Lower flammability limit -		
Vapor pressure		No information available
Vapor density		No information available
Specific Gravity		No information available
Water Solubility	Practically insoluble	
Solubility in other solvents		No information available
Partition coefficient: n-octanol/water		No information available
Autoignition temperature		No information available
Decomposition temperature		No information available
Dynamic viscosity	35,000 cP	
Kinematic viscosity		No information available
Explosive properties		No information available
Oxidizing properties		No information available

#### Other Information:

Softening point	No information available
Molecular weight	No information available
VOC Content (%)	No information available
Density	No information available
Bulk density	No information available

### Section 10: Stability and Reactivity

#### Reactivity:

No data available

#### Chemical Stability:

Stable under normal conditions.

#### Possibility of hazardous reactions:

None under normal processing.

#### Conditions to avoid:

Protect from light, heat, flames and sparks

#### Incompatible materials:

Amines, Strong oxidizing agents, Strong acids, Strong bases, Oxygen scavengers.

#### Hazardous decomposition products:

No decomposition if stored and applied as directed.

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## Section 11: Toxicological Information

### Information on toxicological effects:

#### Acute toxicity

#### Information on likely routes of exposure

**Inhalation** There is no data for this product

**Eye contact** There is no data for this product

**Skin Contact** There is no data for this product

**Ingestion** There is no data for this product

**Symptoms** No information available.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Sensitization** No information available.

**Mutagenic effects** No information available.

**Reproductive toxicity** No information available.

**Carcinogenicity** Contains no ingredients above reportable quantities listed as a carcinogen.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Target Organ Effects** Respiratory system, EYES, Skin.

**Aspiration hazard** No information available.

**Other adverse effects** No information available.

**Chronic toxicity** Repeated contact may cause allergic reactions in very susceptible persons

Avoid repeated exposure

### Numerical measures of toxicity - Product Information

0 % of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document

**ATEmix (oral)** 1415 mg/kg

**ATEmix (dermal)** 2831 mg/kg

**ATEmix (inhalation-gas)** 4839 ppm

**ATEmix (inhalation-dust/mist)** 74.9 mg/l

**ATEmix (inhalation-vapor)** 34 mg/l

### Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Methacrylic ester	LD50 2400 mg/kg (Rat)	LD50 > 3000 mg/kg (Rabbit)	
N,N-Dimethylacrylamide	252 mg/kg (Rat)	907 mg/kg (Rabbit)	776 ppm (Rat) 1 h
2-Hydroxyethyl methacrylate	= 5050 mg/kg (Rat)	> 3000 mg/kg (Rabbit)	
Acrylate Monomer		LD50 > 1,000 mg/kg (Rabbit)	
Acrylic Acid	= 193 mg/kg (Rat) = 33500 µg/kg (Rat)	= 280 µL/kg (Rabbit) = 295 mg/kg (Rabbit)	= 5300 mg/m3 (Rat) 2 h
Photoinitiator	= 1694 mg/kg (Rat)		
Silane Coupling Agent	>5000 mg/kg (Rat)		

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## Section 12: Ecological Information

### Ecotoxicity:

0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment.

### Acute aquatic toxicity

#### Product Information

Testing for acute and chronic aquatic effects determined no environmental classification is required.

#### Component Information

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Methacrylic ester	EbC50 0.9 mg/l ErC50 2.7 mg/l NOEC 0.3 mg/l	LC0 1.8 mg/l 96 h (Danio rerio) NOEC 1.0 mg/l (Danio rerio)	EC50 1.1 mg/l 48 h (Daphnia)
N,N-Dimethylacrylamide		LC50 > 120 mg/L 96 h (Oncorhynchus mykiss)	EC50 > 120 mg/l 48 h (Daphnia magna)
2-Hydroxyethyl methacrylate		LC50 = 227 mg/L 96 h (Pimephales promelas)	EC50 > 380 mg/l 48 h (Daphnia magna)
Acrylic Acid	EC50 0.04 mg/L 72 h (Desmodesmus subspicatus)	LC50 = 222 mg/L 96 h (Brachydanio rerio)	EC50 = 95 mg/L 48 h
Silane Coupling Agent	EC50 > 536,00 mg/L 72 h (Scenedesmus subspicatus)	LC50 > 1024,00 mg/l 96 h (Brachydanio rerio)	EC50 > 876,00 mg/l 48 h (Daphnia magna)

**Persistence and degradability** No information available.

### Bioaccumulation

Component Information

Chemical Name	log Pow
Acrylic Acid	0.46
2-Hydroxyethyl methacrylate	0.47

### Mobility in soil

No product level data available.

## Section 13: Disposal Considerations

### Waste treatment methods:

Dispose of waste in compliance with local and national regulations.

### Contaminated packaging

Dispose of in accordance with local regulations.

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#### Section 14: Transport Information

DOT	Not regulated
ICAO/IATA	Not regulated
IMDG/IMO	Not regulated

#### Section 15: Regulatory Information

##### International Inventories:

TSCA	Complies
AICS	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
NZIoC	Not listed
PICCS	Not listed
TCSI	Complies

##### Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**AICS** - Australian Inventory of Chemical Substances  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**NZIoC** - New Zealand Inventory of Chemicals  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**TCSI** - Taiwan Chemical Substance Inventory

##### US Federal Regulations:

##### OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

##### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	SARA 313 - Threshold Values %
Acrylate Monomer	1.0
Acrylic Acid	1.0

##### SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

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## Section 15: Regulatory Information

continued

### CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Acrylic Acid	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ

### US State Regulations

#### U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Acrylate Monomer	X		X
Acrylic Acid	X	X	X
Stabilizer	X	X	X

### California Proposition 65

This product can expose you to chemicals including those listed below, which is [are] known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)



WARNING

Chemical Name	California Proposition 65
Fumed Silica (5.937%)	Carcinogen

## Section 16: Other Information

SDS Creation Date: 9/18/2016

SDS Revision Date: 3/18/2020

Reason for Revision: Update information for GHS format

For more information: phone: 1-800-473-4237, fax: 1-508-991-8876

Prepared by Fiber Optic Center, Inc.

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FOC last update 12/22/2025.