

# SAFETY DATA SHEET (SDS)



**Manufacturer:** ÅngströmBond®  
**Product Name:** ÅngströmBond AB9037 Plastic Bonding UV Cure Adhesive (3CC)  
**Manufacturer Part Number:** AB9037-3CC

▶ Click here for more details on the ÅngströmBond AB9037 Plastic Bonding UV Cure Adhesive (3CC)



ÅNGSTRÖMBOND®

ADVANCED POLYMERS FOR HIGH TECH APPLICATIONS

SDS # AB 9037

AB 9037 FROM ÅNGSTRÖMBOND 1

Adhesives

## Safety Data Sheet

according to HazCom 2012

**SDS #: AB 9037**

Issue Date: 9/8/2021

Revision Date: N/A

### Section 1: Identification

GHS Product Identifier/Name

ÅNGSTRÖMBOND® AB 9037

Other means of identification

Product Code

AB 9037

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- Mild

Color- Light yellow

Appearance- Translucent

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)

Skin corrosion/irritation

Category 2

Serious eye damage/eye irritation

Category 1

Skin sensitization

Category 1A

Acute toxicity – Inhalation (Dust/Mists)

Category 4

Specific target organ toxicity (single exposure)

Category 3

Target Organ Effects

Respiratory system

Issue Date: 9/8/2021

Revision Date: N/A

Data is subject to change without notice.

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Adhesives

ADVANCED POLYMERS for High Tech Applications  
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**GHS Label Elements:**

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

**Hazard Pictograms:**



**Signal word:**

**DANGER**

**Hazard Statements:**

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

**Precautionary statements:** Do not handle until all safety precautions have been read and understood

**Prevention:**

Wash face, hands and any exposed skin thoroughly after handling  
Avoid breathing dust/fume/gas/mist/vapors/spray  
Contaminated work clothing should not be allowed out of the workplace  
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. Continue rinsing.

**Storage:**

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

**Disposal:**

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

**Other Information:**

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

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AB 9037 FROM ÅNGSTRÖMBOND 3

Adhesives

Advanced Polymers for High Tech Applications

SDS # AB 9037

### Section 3: Composition / Information on Ingredients

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

#### Substances:

| MATERIAL                | CAS No.     | Weight % | Trade Secret | Classification (Reg. 1272/2008)                                                                                                             |
|-------------------------|-------------|----------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Isobornyl Acrylate      | 5888-33-5   | 10-24    | *            | STOT SE 3 (H335)<br>Skin Irrit. 2 (H315)<br>Eye Irrit. 2A (H319)<br>Skin Sens 1 (H317)<br>Aquatic Chronic 2 (H411)                          |
| N, N-Dimethylacrylamide | 2680-03-7   | 10-24    | *            | Flam. Liq. 4 (H227)<br>Acute Tox. 3 (H301)<br>Acute Tox. 3 (H311)<br>Acute Tox. 3 (H331)<br>Eye Damage 1 (H318)                             |
| Acrylic acid            | 79-10-7     | 1-3      | *            | Flam. Liq. 3 (H226)<br>Acute Tox. 4 (H302)<br>STOT SE 3 (H335)<br>Acute Tox. 4 (H332)<br>Skin Corr. 1 (H314)<br>Aquatic Acute 1 (H400)      |
| Visible Photoinitiator  | Proprietary | <1       | *            | Skin Sens 1 (H317)<br>Aquatic Chronic 4 (H413)                                                                                              |
| Photoinitiator          | Proprietary | 1-3      | *            | Skin Irrit 2 (H315)<br>Eye Irrit. 2A (H319)<br>STOT SE 3 (H335)                                                                             |
| Acrylate Monomer        | Proprietary | 4-9      | *            | Acute Tox. 4 (H332)<br>Skin Irrit. 2 (H315)<br>Eye Irrit. 2B (H320)<br>Skin Sens 1 (H317)                                                   |
| Silane Coupling Agent   | Proprietary | 1-3      | *            | Skin Sens 1 (H317)                                                                                                                          |
| Tert-Butyl Perbenzoate  | 614-45-9    | <1       | *            | Org Perox C (H242)<br>Acute Tox 4 (H332)<br>Skin Irrit 2 (H315)<br>Skin Sens 1 (H317)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 3 (H412) |

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.

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**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.

**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.

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**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).

**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<br>79-10-7 (1-3%) | TWA: 2 ppm S* | (vacated) TWA: 10 ppm<br>(vacated) TWA: 30 mg/ms S* | TWA: 2 ppm<br>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.

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#### 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.

### Section 9: Physical and Chemical Properties

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

|                |                          |
|----------------|--------------------------|
| Physical state | Liquid (gel)             |
| Appearance     | Translucent              |
| Color          | Light Yellow             |
| Odor           | Mild                     |
| 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 / 213 °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                      | 50,000 cP             |                          |
| Kinematic viscosity                    |                       | No information available |
| Explosive properties                   |                       | No information available |
| Oxidizing properties                   |                       | No information available |

#### Other Information:

|                  |                          |
|------------------|--------------------------|
| Softening point  | No information available |
| VOC Content (%)  | No information available |
| Molecular Weight | No information available |
| Density          | No information available |
| Bulk density     | No information available |

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Adhesives

ADVANCED POLYMERS FOR HIGH TECH APPLICATIONS

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## 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.

## 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.

**Aspiration hazard** No information available

**Other adverse effects** No information available.

**Numerical measures of toxicity - Product Information**

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

ATEmix (oral) 2577 mg/kg

ATEmix (dermal) 4812 mg/kg

ATEmix (inhalation-dust/mist) 2.8 mg/l

ATEmix (inhalation-vapor) 550 mg/l

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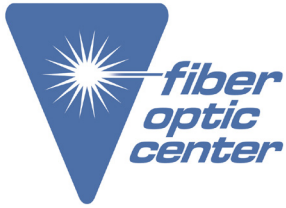
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**ADHESIVES**

ADVANCED POLYMERS FOR HIGH TECH APPLICATIONS

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**Component Information**

| Chemical Name          | Oral LD50                                | Dermal LD50                                  | Inhalation LC50                    |
|------------------------|------------------------------------------|----------------------------------------------|------------------------------------|
| Isobornyl Acrylate     | = 4890 mg/kg (Rat)                       | > 5 g/kg (Rabbit)                            |                                    |
| N,N-Dimethylacrylamide | 252 mg/kg (Rat)                          | 907 mg/kg (Rabbit)                           | 776 ppm (Rat) 1 h                  |
| Acrylate Monomer       |                                          | LD50 > 1,000 mg/kg (Rabbit)                  |                                    |
| Photoinitiator         | 5000 mg/kg (Rat)                         | >1160 mg/kg (Rat)                            | 10.6 mg/L (Rat) 4 h                |
| Acrylic Acid           | = 193 mg/kg (Rat)<br>= 33500 µg/kg (Rat) | = 280 µL/kg (Rabbit)<br>= 295 mg/kg (Rabbit) | = 5300 mg/m <sup>3</sup> (Rat) 2 h |
| Silane Coupling Agent  | >5000 mg/kg (Rat)                        |                                              |                                    |
| Tert-Butyl Perbenzoate | = 4838 mg/kg (Rat)                       | = 3817 mg/kg (Rabbit)                        |                                    |
| Visible photoinitiator | >2000 mg/kg (Rat)                        | >2000 mg/kg (Rat)                            |                                    |

**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 fish                             | Toxicity to daphnia and other aquatic invertebrates | Toxicity to algae                                        |
|------------------------|----------------------------------------------|-----------------------------------------------------|----------------------------------------------------------|
| Isobornyl Acrylate     | LC50 = 1.8 mg/L 96 h (Danio rerio)           | EC 50 = 1.1 mg/L 48 h (Daphnia magna)               | ErC 50 = 2.7 mg/L 96 h (Pseudokirchneriella subcapitata) |
| N,N-Dimethylacrylamide | LC50 > 120 mg/L 96 h (Oncorhynchus mykiss)   | EC50 > 120 mg/l 48 h (Daphnia magna)                |                                                          |
| Acrylic Acid           | LC50 = 222 mg/L 96 h (Brachydanio rerio)     | EC50 = 95 mg/L 48 h                                 | EC50 0.04 mg/L 72 h (Desmodesmus subspicatus)            |
| Silane Coupling Agent  | LC50 > 1024.00 mg/l 96 h (Brachydanio rerio) | EC50 > 876.00 mg/l 48 h (Daphnia magna)             | EC50 > 536.00 mg/l 72 h (Scenedesmus subspicatus)        |
| Tert-Butyl Perbenzoate | LC50 1.6 mg/l 96 h (Brachydanio rerio)       | EC50 11 mg/L 48 h (Daphnia magna)                   | EC50 1.3 mg/l 72 h (Pseudokirchneriella subcapitata)     |
| Visible photoinitiator | LC50 > 0.09 mg/l 96 h (Brachydanio rerio)    | EC50 > 1.175 mg/l 48 h (Daphnia magna)              | EC50 > 0.26 mg/l 72 h (Scenedesmus sp.)                  |

**Persistence and degradability** No information available.**Bioaccumulation**

Component Information

| Chemical Name          | log Pow |
|------------------------|---------|
| Isobornyl Acrylate     | 4.52    |
| Photoinitiator         | 2.5     |
| Acrylic Acid           | 0.46    |
| Tert-Butyl Perbenzoate | 3       |

**Mobility in soil**

No product level data available.

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### 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.

### Section 14: Transport Information

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

### Section 15: Regulatory Information

**International Inventories:**

|               |                            |
|---------------|----------------------------|
| TSCA          | Complies                   |
| AICS          | Not listed                 |
| DSL/NDL       | Not listed                 |
| EINECS/ELINCS | Complies                   |
| ENCS          | Not listed                 |
| IECSC         | Simplified Notification    |
| KECL          | Low Volume Exemption (LVE) |
| 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/NDL** - 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:

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

#### SARA 311/312 Hazard Categories

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

#### 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) or as extremely hazardous substances under the Superfund Amendments and Reauthorization Act (SARA) (40CFR 355).

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

#### US State Regulations

##### California Proposition 65

This product does not contain any Proposition 65 chemicals.

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

| Chemical Name            | New Jersey | Massachusetts | Pennsylvania |
|--------------------------|------------|---------------|--------------|
| Acrylate Monomer         | X          |               | X            |
| Acrylic Acid             | X          | X             | X            |
| Tert-Butyl Perbenzoate   | X          | X             | X            |
| Tert-Butyl Hydroperoxide | X          | X             | X            |

#### Section 16: Other Information

**SDS Creation Date:** 9/8/2017

**SDS Revision Date:** N/A

**Reason for Revision:**

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

**Prepared by** Fiber Optic Center, Inc.

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**Issue Date:** 9/8/2021 **Revision Date:** N/A

Data is subject to change without notice.

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

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