

Manufacturer:

ÅngströmBond

Product Name:

ÅngströmBond AB9093 Rigid, low viscosity, UV Adhesive (3cc)

Manufacturer Part Number:

AB9093-3CC

Click here for more details on the ÅngströmBond AB9093 Rigid, low viscosity, UV Adhesive (3cc)

AB 9093 from AngstromBond

Adhesives

Advanced Polymers for High Tech Applications

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY

Product Name: AB 9093

Intended Use: Ultraviolet Curing Adhesive

For product emergencies involving spill, leak, fire exposure or accident please contact Chemtrec at

1 -800- 424-9300 . For all other inquires please contact Fiber Optic Center, Inc TM at

1 -800- 473-4237

2. HAZARDS IDENTIFICATION

Mercapto Ester

1 Health,R22/R36/R38/R43

Triallyl Isocyanurate

1 Flammability

1 Reactivity

B Protective equipment

Hazard Rating

- 0 Minimal
 1 Slight
 2 Moderate
 3 Serious
- 4 Extreme B Glove and Eye

protection

Health risks:

R22 Harmful if in contact with skin or if swallowed.

R36 Irritating to eyes.

R38 Irritating to skin.

R43 May cause sensitization by skin contact.

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Signal Word: Warning

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Nature: Urethane related based formulation

COMPONENTS	CAS#	EINECS#	CONCENTRATION
Mercapto-ester*	*	*	35-60%
Triallyl Isocyanurate	1025-15-6	213-834-7	15-25%

^{*} The specific chemical identity and concentration is being withheld from this data sheet as a Trade Secret. None of the ingredients are listed as carcinogens in NTP, IARC, OSHA, RoHS, REACH or any state's list of chemicals known to cause reproductive toxicity.

4. FIRST AID MEASURES

In case of inhalation: If tightness in the chest, irritation or coughing occurs, remove

to fresh air. Get medical attention if symptoms persist.

In case of splashes in eye: If the material gets in the eyes, immediately wash the eyes with

> copious amounts of water, occasionally lifting the lower and upper eyelids. Continue for 15 minutes and get medical attention

immediately.

In case of skin contact: If the material gets on the skin, immediately wash the area with

soap and water and flush with water. If irritation develops

get medical attention.

In case of clothing spattering: Discard or wash contaminated clothing before reuse.

In case of ingestion: If the material has been swallowed, dilute with milk or water if the

victim is alert. See doctor as soon as possible.

5. FIRE-FIGHTING MEASURES

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Extinguishing Media recommended: Carbon Dioxide, foam, dry chemical

Extinguishing Media inadvisable: Water. Jets of water from fire hose.

Special Hazards: None.

Hazardous decomposition/combustion products: Could generate carbon monoxide,

carbon dioxide, sulfur dioxide or

hydrogen sulfide.

Special protective equipment: A self-contained breathing apparatus.

Explosion Data:

Sensitivity to Impact: None Sensitivity to Static Discharge: None

6. ACCIDENTAL RELEASE MEASURES

Measures for personal safety:

GLOVES: Use gloves made from an impervious material, e.g. nitrile, butyl or

latex rubber. Latex rubber may soften and become pervious if also

exposed to organic solvents.

RESPIRATOR: Not required under normal operating conditions. Respiratory

protection may be needed in unusual circumstances where significant exposure to fumes or mists can occur. A NIOSH approved air purifying respirator with an organic vapor cartridge would then be recommended. Use must comply with OSHA (29

CFR 1910.134) and other regulatory standards.

EYE: Wear safety glasses.

FOOTWEAR: Impervious shoes, e.g. leather, not cloth or sandals.

Ventilation Requirements: A fume hood is not generally required. The room should have adequate

ventilation to avoid potential for concentration of mist or vapors.

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Environmental measures: Stop the product from entering the drainage system and the natural

environment. Limit leakage with earth.

Cleaning methods:

Recovery: Absorb material with paper towel or other absorbent. Place in container

for disposal. If possible, expose absorbed resin to UV light or sunlight to

solidify the resin.

Cleaning/decontamination: Clean up with soap and water.

Elimination: Eliminate according to local and national regulations.

7. HANDLING AND STORAGE

Handling:

Technical measures: Do not reuse container. This product is for industrial use only. Practice

good housekeeping and vigorous personal hygiene to minimize contact

with material.

Precautions to take: Avoid contact with skin and eyes.

Storage: Store at 5•C to 25•C. Keep away from sunlight.

8: EXPOSURE CONTROL/PERSONAL PROTECTION

Precautionary Measure: None.

Exposure limits: None.

Protective personal equipment:

Respiratory protection: Not needed with normal use.

Protection for hands: Use gloves made from an impervious material, e.g. nitrile, butyl or

latex rubber. Latex rubber may soften and become pervious if also

exposed to organic solvents

Eye Protection: Wear safety glasses.

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Protection from skin: Wear clothing that provides protection to skin.

9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Color: Clear liquid

Odor: Slight sulfur odor

pH: Not applicable

Melting point: Not applicable

Boiling point: Not applicable

Decomposition temperature: >300 •C

Flash point: 175•C

Auto ignition temperature: Not applicable

Explosive properties: None

Oxidizing properties: None

Vapor pressure: <0.1 @ 20•C

Density: >1

Solubility/Miscibility:

Solubility in water Not miscible

Viscosity: 140 cps @ 25•C

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10:STABILITY AND REACTIVITY

Conditions to avoid: Keep away from UV and sunlight. Temperatures above 65°C

may cause exothermic nonhazardous polymerization.

Substances to avoid: None

Hazardous decomposition products: None

11:TOXICOLOGICAL INFORMATION

Acute toxicity:

Ingestion: LD50: >5 g/kg (rats)
Inhalation: LC50: >2.5 mg/l

Local effects:

On skin: slight irritating to skin.
On eyes: irritating to eyes.

Long term toxicity:

Skin contact: May cause sensitization by skin contact.

12: ECOLOGICAL INFORMATION

Ecotoxicity: No data available.

Mobility: Cured adhesives are immobile.

General ecological: Do not empty liquid into drains or ground water.

13: DISPOSAL CONSIDERATION

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Disposal Methods for product and waste:

Send to authorized disposal plants or for incineration under controlled conditions.

Disposal methods for contaminated packaging:

Do not reuse package. Send to authorized disposal plants or for incineration under controlled conditions.

You should comply with the local and national regulations in force when disposing.

14: TRANSPORTATION INFORMATION

Land transport (ADR/RID)

Not classified as dangerous in the meaning of land transport regulations(ADR/RID).

Shipping transport(IMD)

Not classified as dangerous in the meaning of shipping transport regulations(IMDG).

Air transport (IATA)

Not classified as dangerous in the meaning of air transport regulations(IATA).

15: REGULATORY INFORMATION

Symbols:

Xi Irritant

R phrases:

R22 Harmful in contact with skin and if swallowed.

R36 Irritating to eyes.

R38 Irritating to skin.

R43 May cause sensitization by skin contact.

S phrases:

S24 Avoid contact with skin.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical

S37 Wear suitable gloves.

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Contains:

Urethane related adhesives.

US Federal Regulations:

Unless otherwise noted, this product is in compliance with the inventory listing of the countries shown below.

Listed/registered Europe (EINECS/ELINCS) USA (TSCA) Listed/registered Canada (DSL) Listed/registered Australia (AICS) Listed/registered Japan (MITI) Listed/registered Korea (TCCL) Listed/registered Philippines (PICCS) Listed/registered China Listed/registered

16: OTHER INFORMATION

Full text of R phases indicated by codes in the material safety data sheet are as follows:

R22 Harmful in contact with skin and if swallowed

R36 Irritating to eyes.

R38 Irritating to skin.

R43 May cause sensitization by skin contact.

Custom Situation: Harmonized System (HTS/Schedule B) 35.06.91.0000

All components of this product are in compliance with the Toxic Substances Control Act (TSCA) inventory.

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