



Manufacturer: ÅngströmBond®

Product Name: ÅngströmBond® AB9310 High Temperature Epoxy, Heat Cure (1oz)

Manufacturer Part Number: AB9310-1OZ

▶ Click here for more details on the ÅngströmBond® AB9310 High Temperature Epoxy, Heat Cure (1oz)

ÅngströmBond®

Advanced Polymers for High Tech Applications

Adhesives

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Safety Data Sheet

SDS #: AB 9310
Issue Date: 2/09/2015

according to HazCom 2012

Revision Date: 4/09/2026

Section 1: Identification of the substance or mixture and of the supplier

GHS Product Identifier/Name AngstromBond® AB 9310

Other means of identification

Product Code AB 9310
Other means of identification Not available

Recommended use of the chemical and restrictions on use

Identified Uses Adhesive, Encapsulating, Binding

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. TM at 1-800-473-4237

Section 2: Hazard(s) Identification

Part A: GHS Signal word: Warning



Hazard signal: Environmentally Hazardous
Hazardous statement:
H315 Causes skin irritation
H319 Causes serious eye irritation
H317 May cause an allergic skin reactio

Part B:

Symbol (s) Signal word: Danger



Classification of the Substance or mixture:

Part B:

Hazard statements: 4, H302 + H312 Harmful if swallowed or in contact with skin.
1B, H314 Causes severe skin burns and eye damage, Skin corrosion
1, H317 May cause an allergic skin reaction
2, H332 Harmful if inhaled; Acute toxicity
H361 Suspected of damaging fertility of unborn child
H351 Suspected of causing cancer

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Corrosive: C, R34; Sensitising: Xi, R43; Harmful: Xn, R21/22; Very toxic: T+R26; Irritant: Xi, R37

Precautionary statements:**Prevention:**

P260 Avoid breathing dust/fume/gas/mist/vapors/spray
P273 Avoid release to the environment
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Section 3: Composition / Information on Ingredients

Ingredients	%	Cas#
Part A		
Bisphenol epoxy resin	50-75	25068-38-9
Modifier	1-15	2386-87-0
DPGME	1-2	34590-94-8
Organo-metallic Zinc	1-10	557-09-5.
Part B:		
Alicyclic Anhydride	100	19438-60-9

Section 4: First Aid Measures

Eyes: Immediately wash with water for 20 minutes, call a Physician.

Skin: Promptly wash with soap & water

Inhalation: Remove to the fresh air. Give oxygen if required.

Oral: If conscious, give a large quantities of water or milk, induce vomiting. Call a Physician.

Comments: Promptly remove contaminated clothing, wash before reuse. Destroy contaminated leather and absorbent shoes.

Section 5: Fire-Fighting Measures

GHS Hazard Categories:

(0=None, 5-Minimal, 4-Slight, 3-Moderate, 2-Serious, 1-Severe)

Part A: Health: 4 Flammability: 0 Reactivity: 0

Part B: Health: 3 Flammability: 0 Reactivity: 0, Spec. Hazard: Corrosive

Extinguishing Media: Use Carbon Dioxide, Dry Chemicals, foam, water fog.

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Flash Point (degree F): > 350°C (PM Closed Cup)

Flammability limits in air (LFL): ND (UFL): ND

Unusual Fire or Explosion Hazard: Decomposition & combustion products may be toxic

Special Fire Fighting Procedures: Use self contained breathing apparatus

Hazardous Combustion Products: Combustion may yield smoke, carbon monoxide, and other products of incomplete combustion. Oxides of nitrogen and sulfur may also be formed.**Section 6: Small and Leak Procedures**

For small spills: Wipe up, or absorb with vermiculite or other absorbent material. Collect waste in sealed containers. Scrub area with soapy water and rinse. Prevents rinses from entering drains or other waterways. Spilled material and water rinses are classified as chemical waste, and must be disposed of according to current local, state, and federal regulations.

For large spills: Dike area to contain spilled material and to runoff into drains, sewers, and other waterways. Shovel or pump to drum or salvage tank. Absorbed residual material with sand, vermiculite, or other absorbent material. Scrape or shovel absorbed waste and absorbent into containers. Scrub area with soapy water and rinse. Prevents rinse from entering drains or other waterways.

Section 7: Handling and Storage

Protective Equipment: Eyes: Wear splash proof goggles.

Protective clothing: Skin: Wear impervious gloves. Wear appropriate equipment to prevent skin contact.

Inhalation: Use NIOSH approved respirator suitable for organic vapors, if required.

Ventilation: Local Exhaust: Required

Mechanical (General): Required

Suitable Respirator: NIOSH approved respirator suitable for organic vapors. These precautions are for room temperature handling, use at elevated temperature may require added precautions.

Section 8: Exposure Controls / Personal Protection

Engineering controls: If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure limits, additional engineering controls may be required.

Eye/Face Protection: The use of eye protection (such as splash goggles) that meets or exceeds ANSI Z.87.1 is recommended when there is potential liquid contact to the eye. Depending on conditions of use, a face shield may be necessary.

Skin/Hand Protection: Wear thermal insulating gloves and face shield or eye protection when working with materials that present thermal hazards (hot or cold).

Respiratory Protection: A NIOSH approved, self-contained breathing apparatus (SCBA) or equivalent operated in a pressure demand or other positive pressure mode should be used in situations of oxygen deficiency (oxygen content less than 19.5 percent), unknown exposure concentrations, or situations that are immediately dangerous to life or health (IDLH).

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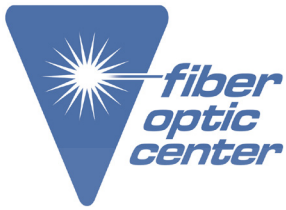
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A respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed whenever workplace conditions warrant a respirator's use.

Suggestions provided in this section for exposure control and specific types of protective equipment are based on readily available information. Users should consult with the specific manufacturer to confirm the performance of their protective equipment. Specific situations may require consultation with industrial hygiene, safety, or engineering professionals.

Section 9: Physical and Chemical Properties

Part A:

Boiling Point @ 760 mm Hg: N/A
 Specific Gravity @ 25° C: 1.12 - 1.22 mixed
 Melting Point: N/A
 Vapor Pressure @ 25° C, MM Hg: N/E
 Vapor Density @ 25° C (air=1): Heavier than air
 Percent volatile by volume: 0
 Evaporation rate (Butyl acetate = 1): N/E
 Solubility in Water: Negligible

Health 4
Flammability 0
Reactivity 0

Part B:

Boiling Point @ 760 mm Hg: 180°C
 Specific Gravity @ 25° C: 1.12-1.22 mixed
 Melting Point: N/A
 Vapor Pressure @ 25° C, MM Hg: N/E
 Vapor Density @ 25° C (air=1): N/E
 Percent volatile by volume: 0
 Evaporation rate (Butyl acetate = 1): N/D
 Solubility in Water: Mixes completely

Health 4
Flammability 0
Reactivity 0

Appearance and Odor: Clear, A/B mixed light blue, ammonia odor
 Note: The above information is not intended for use in preparing product specifications. Contact Chemical Technology, Inc., before writing specifications.

Section 10: Stability and Reactivity

Part A:

Stability: Stable
 Incompatibilities: Strong oxidizers, amines, amides, strong Lewis or mineral acids, thiosulfates, caroxylic acids, alcohol, mercaptans. Reaction with curing agents is exothermic; Smoke or fumes may be evolved if heat of reaction becomes excessive due to high curing temperature or curing of large masses of material.
 Condition to Avoid: Storage in open containers, expose to heat and/or open flame, uncontrolled mixing with (or exposure to) incompatible substances (above)
 Hazardous Polymerization: Will not occur
 Hazardous decomposition Materials: carbon monoxide and Carbon Dioxide

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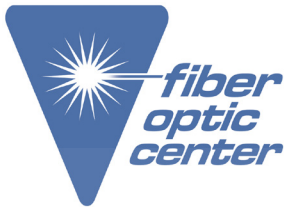
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Part B:
 Stability: Stable
 Incompatibilities: Strong oxidizers, acids, epoxies, aldehydes, ketones, acrylates and organic halides.
 Condition to Avoid: Storage in open containers, expose to heat and/or open flame, uncontrolled mixing with (or exposure to) incompatible substances (above)
 Hazardous Polymerization: Will not occur

Hazardous decomposition Materials: carbon monoxide, Carbon dioxide, oxides of nitrogen and other organic substances may be formed during combustion. The chemical nature and quantity of decomposition by-product will vary widely depending on the conditions of combustion

Section 11: Toxicological Information

Part A:
 Oral LD 50: N/D Dermal LD 50: N/D
 TLV: NONE Established
 Irritation-Skin: Prolonged exposure is not likely to result significant skin irritation. Repeated contact may cause skin irritation.
 Irritation-Eyes: May cause slight transient (temporary) eye irritation. Corneal injury is unlikely.
 Sensitization: Moderate sensitization
 Respiratory: None likely unless heated to high temperatures
 Effects of Exposure: Irritation, Sensitization, and Dermatitis

Part B:
 Oral LD 50: 4.3 g/kg (rats) Dermal LD 50: 2.5 g/kg (rabbits)
 TLV: NONE Established

Skin Contact: May cause severe skin burns and allergic reaction.
 Eye Contact: Contains materials severe irritation to the eyes. Symptoms may include result in permanent impairment of vision, even blindness.
 Inhalation: May cause respiratory sensitization of asthma in susceptible individual.
 Ingestion: May cause gastrointestinal irritation or ulceration. May cause burns of the mouth and throat.
 Sensitization: Corrosive

Section 12: Ecological Information

Toxicity: No data available

Persistence and Degradability: No data available

Bioaccumulative Potential: No data available. Mobility in soil: No data available

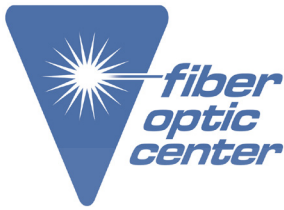
Other Adverse Effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

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Section 13: Disposal Considerations

A small amount of leftover Part A and B as a liquid form could be cured to a solid mass by mixing according to the recommended ratio and then can be disposed as a waste. Uncured liquid material should not be disposed as a regular waste. Surplus and non-recyclable solutions get help from a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging: Dispose of as unused product.

Section 14: Transport Information

Part A: This material is not subject to DOT regulations under 49 CFR Parts 17-180

Part B: Corrosive, Amines, Liquid, N.O.S. (Diethyltetramine), Class 8, UN2079, Packing Group II

Section 15: Regulatory Information**CERCLA/SARA - Section 302 Extremely Hazardous Substances and TPQs (in pounds):**

This material does not contain any chemicals subject to the reporting requirements of SARA 302 and 40 CFR 372.

CERCLA/SARA - Section 311/312 (Title III Hazard Categories)

Acute Health: Yes
Chronic Health: No
Fire Hazard: No
Pressure Hazard: No
Reactive Hazard: No

CERCLA/SARA - Section 313 and 40 CFR 372:

This material contains the following chemicals subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR 372:

California Proposition 65:

This material does not contain any chemicals which are known to the State of California to cause cancer, birth defects or other reproductive harm at concentrations that trigger the warning requirements of California Proposition 65.

WHMIS Statement: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

National Chemical Inventories

All components are either listed on the US TSCA Inventory, or are not regulated under TSCA
 All components are either on the DSL, or are exempt from DSL listing requirements

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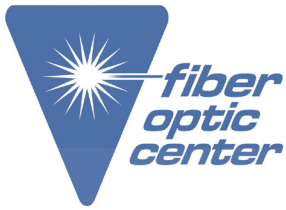
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Section 16: Other Information**Date of Issue:** February 10, 2015**Training advice.****Guide to Abbreviations:**

ACGIH = American Conference of Governmental Industrial Hygienists; CASRN = Chemical Abstracts Service Registry Number; CEILING = Ceiling Limit (15 minutes); CERCLA = The Comprehensive Environmental Response, Compensation, and Liability Act; EPA = Environmental Protection Agency; GHS = Globally Harmonized System; IARC = International Agency for Research on Cancer; INSHT = National Institute for Health and Safety at Work; IOPC = International Oil Pollution Compensation; LEL = Lower Explosive Limit; NE = Not Established; NFPA = National Fire Protection Association; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; PEL = Permissible Exposure Limit (OSHA); SARA = Superfund Amendments and Reauthorization Act; STEL = Short Term Exposure Limit (15 minutes); TLV = Threshold Limit Value (ACGIH); TWA = Time Weighted Average (8 hours); UEL = Upper Explosive Limit; WHMIS = Worker Hazardous Materials Information System (Canada)

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