

**Manufacturer:** ÅngströmBond

**Product Name:** ÅngströmBond AB9110LV Room Temp Cure Epoxy (2.5G)

**Manufacturer Part Number:** AB9110LV-2.5G

Click here for more details on the ÅngströmBond AB9110LV Room Temp Cure Epoxy (2.5G)



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# Safety Data Sheet

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

Product Name: Intended Use:

AB 9110 LV Adhesive, Encapsulating, Binding

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* <sup>™</sup> at 1 -800- 473-4237

Section 2: Hazard(s) Identification

Symbol (s)

Signal word: Danger



Classification of the Substance or mixture:

#### Part B:

Pr

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, H330 Fatal if inhaled; Acute toxicity

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

ecautionary statements:	Preventio P260 P273 P280	n: Avoid breathing dust/fume/gas/mist/vapors/spray Avoid release to the environment Wear protective gloves/protective clothing/eye protection/face protection.
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Section 3: Composition / Information on Ingredients

Ingredients	%	Cas#
Part A		
Bisphenol epoxy resin	50-80	25068-38-6
Modifier	15-30	T.S. (Trade secret)
Part B:		
Polyalkylamine	50-85	Proprietary
Polyamine	10-30	27308-78-7

beyond our control. The properties given are typical values, and are not intended for use in preparing specifications. Users should make their own test to determine the suitability of this product for their own purposes.

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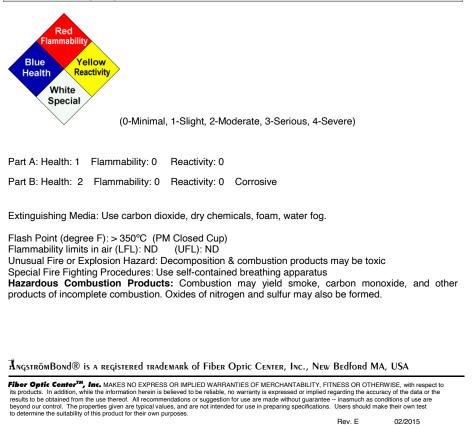
Section 4: First Aid Measures

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



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#### 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).

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.

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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 - 1.18 mixed Melting Point: N/A Vapor Pressure @ 25° C, MM Hg: < 1 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

#### Part B:

Boiling Point @ 760 mm Hg: 207° C Specific Gravity @ 25° C: 1.12-1.18 mixed Melting Point: N/A Vapor Pressure @ 25° C, MM Hg: < 1 @ 20° C Vapor Density @ 25° C (air=1): Heavier than air Percent volatile by volume: Negligible Evaporation rate (Butyl acetate = 1): N/D Solubility in Water: Mixes completely Appearance and Odor: Clear colorless liquid, ammonia odor Health Flammability 0 Reactivity 0

Health 2 Flammability 0 Reactivity n Spec. Hazard COR

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Note: The above information is not intended for use in preparing product specifications.

#### Section 10: Stability and Reactivity

Part A:

Stability: Stable

Incompatibilities: Strong oxidizers, amines, amides, strong Lewis or mineral acids, thiosulfates, carboxylic 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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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: Toxological 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: 300-2,000 mg/kg (rats) Dermal LD 50: 1,000-2,000 mg/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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### Contact the professionals at Fiber Optic Center for a quote or to get more details.

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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:	Yes
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

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All components are either on the DSL, or are exempt from DSL listing requirements

#### Section 16: Other Information

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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