



Manufacturer:
ÅngströmBond

Product Name:
ÅngströmBond AB9320 Heat Cure Epoxy (2.5G)

Manufacturer Part Number:
AB9320-2.5G

▶ Click here for more details on the ÅngströmBond AB9320 Heat Cure Epoxy (2.5G)



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Safety Data Sheet acc. to OSHA HCS

Printing date 10/20/2022

Version 1

Reviewed on 01/18/2022

1 Identification

· **Product identifier**

· **Trade name:** AB9320

· **Application of the substance /
the mixture** Adhesive

· **Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:** Fiber Optic Center, Inc.
23 Centre Street
New Bedford, MA 02740-6322 USA

Tel: 1-508-992-6464
Fax: 1-508-991-8876

· **Information department:**

· **Emergency telephone
number:**

Telephone: (800) 424-9300 (Chemtrec)
Call this number in the event of an accident resulting in a spill, leak or
fire. Call this number in the event of exposure to the chemicals.

2 Hazard(s) identification

· **Classification of the substance or mixture**



Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.



Skin Sens. 1 H317 May cause an allergic skin reaction.

· **Label elements**

· **GHS label elements**

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

· **Hazard pictograms**



· **Signal word**

Danger

· **Hazard-determining
components of labeling:**

Diglycidyl ether Bisphenol-A epoxy resin
aliphatic amine
reactive diluent (epoxy functional)

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SAFETY DATA SHEET (SDS)



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· Hazard statements	H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction.
· Precautionary statements	P260 Do not breathe dusts or mists. P264 Wash thoroughly after handling. P272 Contaminated work clothing must not be allowed out of the workplace. P280 Wear protective gloves/protective clothing/eye protection/face protection. P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a poison center/doctor. P321 Specific treatment (see on this label). P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P363 Wash contaminated clothing before reuse. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
· Classification system:	
· NFPA ratings (scale 0 - 4)	Health = 3 Fire = 1 Reactivity = 0
· HMIS-ratings (scale 0 - 4)	Health = *3 Fire = 1 Reactivity = 0
· Other hazards	
· Results of PBT and vPvB assessment	
· PBT:	Not applicable.
· vPvB:	Not applicable.

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with non-hazardous additions. Non-hazardous ingredients are not listed.

· Components:	
Diglycidyl Ether Bisphenol-A epoxy resin	>60%
⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335	
aliphatic amine	10-20%
⚠ Skin Corr. 1B, H314; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317	
Reactive diluent	10-20%
⚠ STOT SE 1, H370; ⚠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	

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· **SVHC (Substances of Very High Concern - REACH)**

None of the ingredients is listed.

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

· **Description of first aid measures**

· **General information:**

Immediately remove any clothing soiled by the product.

· **After inhalation:**

Supply fresh air. For added safety, call a doctor.

In case of unconsciousness place patient in a stable side position for transportation.

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

· **After eye contact:**

Rinse opened eye for several minutes under running water. Then consult a doctor.

· **After swallowing:**

Drink copious amounts of water and provide fresh air. Immediately call a doctor.

· **Information for doctor:**

· **Most important symptoms and effects, both acute and delayed**

No further relevant information available.

· **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

5 Fire-fighting measures

· **Extinguishing media**

· **Suitable extinguishing agents:**

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **Special hazards arising from the substance or mixture**

No further relevant information available.

· **Advice for firefighters**

· **Protective equipment:**

No special measures required.

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

· **Environmental precautions:**

Inform respective authorities in case of seepage into water course or sewage system.

Dilute with plenty of water.

· **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralizing agent.

Dispose of contaminated material as waste according to item 13.

Ensure adequate ventilation.

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- **Reference to other sections** See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

· **Protective Action Criteria for Chemicals**

· **PAC-1:**

Diglycidyl ether Bisphenol-A epoxy resin	90 mg/m ³
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· **PAC-2:**

Diglycidyl ether Bisphenol-A epoxy resin	990 mg/m ³
--	-----------------------

· **PAC-3:**

Diglycidyl ether Bisphenol-A epoxy resin	5,900 mg/m ³
--	-------------------------

7 Handling and storage

- **Handling:**
- **Precautions for safe handling** Store in cool, dry place in tightly closed receptacles.
Use only in well ventilated areas.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:** The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:** Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
- **Breathing equipment:** Not required.

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- | | | |
|---|---|-------------------------------------|
| · Protection of hands: | <i>Protective gloves</i>
<i>The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.</i>
<i>Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.</i>
<i>Selection of the glove material is based on consideration of the penetration times, rates of diffusion and the degradation of the material.</i> | <small>(Contd. from page 4)</small> |
| · Material of gloves | <i>The selection of suitable gloves depends not only on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.</i> | |
| · Penetration time of glove material | <i>The exact penetration time has to be determined by the glove manufacturer and has to be observed.</i> | |
| · Eye protection: | <i>Tightly sealed goggles</i> | |

9 Physical and chemical properties

- | | |
|--|--|
| · Information on basic physical and chemical properties | |
| · General Information | |
| · Appearance: | |
| Form: | <i>Not determined.</i> |
| Color: | <i>Blue</i> |
| Odor: | <i>Ammonia-like</i> |
| Odour threshold: | <i>Not determined.</i> |
| · pH-value: <i>Not determined.</i> | |
| · Change in condition | |
| Melting point/Melting range: | <i>Undetermined.</i> |
| Boiling point/Boiling range: | <i>170 °C</i> |
| Flash point: | <i>>93 °C</i> |
| Flammability (solid, gaseous): | <i>Not applicable.</i> |
| Decomposition temperature: | <i>Not determined.</i> |
| Auto igniting: | <i>Product is not self-igniting.</i> |
| Danger of explosion: | <i>Product does not present an explosion hazard.</i>
<i>Not determined.</i> |
| · Explosion limits: | |
| Lower: | <i>Not determined.</i> |
| Upper: | <i>Not determined.</i> |
| Vapor pressure: | <i>Not determined.</i> |
| Density at 20 °C: | <i>1.1 g/cm³</i> |
| Relative density | <i>Not determined.</i> |
| Vapor density | <i>Not determined.</i> |

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· Evaporation rate	Not determined.
· Solubility in / Miscibility with Water:	Fully miscible.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Solids content:	0.5 %
· Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** Irritant gases/vapors

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

Diglycidyl ether Bisphenol-A epoxy resin		
Oral	LD50	11,400 mg/kg (rat)
Dermal	LD50	2,000 mg/kg (rat)
aliphatic amine		
Oral	LD50	1,030 mg/kg (rat)
Dermal	LD50	2,000 mg/kg (rat)
Inhalative	LC50/4 h	5.01 mg/l (rat)
reactive diluent (epoxy functional)		
Oral	LD50	5,000 mg/kg (rat)
Dermal	LD50	6,000 mg/kg (rabbit)
Inhalative	LC50/4 h	3.466 mg/l (rat)

- **Primary irritant effect:**
- **on the skin:** Caustic effect on skin and mucous membranes.
- **on the eye:** Strong caustic effect.

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· **Sensitization:** Sensitization possible through skin contact.

· **Additional toxicological information:** The product shows the following dangers according to internally approved calculation methods for preparations:
Corrosive
Irritant
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

· **Carcinogenic categories**

· IARC (International Agency for Research on Cancer)
None of the ingredients is listed.

· NTP (National Toxicology Program)
None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)
None of the ingredients is listed.

12 Ecological information

· **Toxicity**

· **Aquatic toxicity:** No further relevant information available.

· **Persistence and degradability** No further relevant information available.

· **Behavior in environmental systems:**

· **Bioaccumulative potential** No further relevant information available.

· **Mobility in soil** No further relevant information available.

· **Ecotoxicological effects:**

· **Remark:** Toxic for fish

· **Additional ecological information:**

· **General notes:** Water hazard class 2 (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Must not reach bodies of water or drainage ditch undiluted or unneutralized.
Danger to drinking water if even small quantities leak into the ground.
Also poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**

· **Recommendation:** Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to official regulations.

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Trade name: AB9320	
Recommended cleansing agent:	(Contd. from page 7) Water, if necessary with cleansing agents.
14 Transport information	
<ul style="list-style-type: none"> · UN-Number · DOT · ADR, IMDG, IATA 	<ul style="list-style-type: none"> UN2735 UN2289
<ul style="list-style-type: none"> · UN proper shipping name · DOT · ADR · IMDG · IATA 	<ul style="list-style-type: none"> Amines, liquid, corrosive, n.o.s. (Isophoronediamine) 2289 ISOPHORONEDIAMINE ISOPHORONEDIAMINE, MARINE POLLUTANT ISOPHORONEDIAMINE
<ul style="list-style-type: none"> · Transport hazard class(es) · DOT, IMDG, IATA · Class · Label 	<ul style="list-style-type: none"> 8 Corrosive substances 8
<ul style="list-style-type: none"> · ADR · Class · Label 	<ul style="list-style-type: none"> 8 (C7) Corrosive substances 8
<ul style="list-style-type: none"> · Packing group · DOT, ADR, IMDG, IATA 	<ul style="list-style-type: none"> III
<ul style="list-style-type: none"> · Environmental hazards: 	<ul style="list-style-type: none"> Product contains environmentally hazardous substances: diglycidyl ether bisphenol-A epoxy resin
<ul style="list-style-type: none"> · Special precautions for user · Hazard identification number (Kemler code): · EMS Number: · Stowage Category · Segregation Code 	<ul style="list-style-type: none"> Warning: Corrosive substances 80 F-A, S-B A SG35 Stow "separated from" SGG1-acids
<ul style="list-style-type: none"> · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code 	<ul style="list-style-type: none"> Not applicable.
<ul style="list-style-type: none"> · Transport/Additional information: · DOT · Quantity limitations 	<ul style="list-style-type: none"> On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
<ul style="list-style-type: none"> · ADR · Excepted quantities (EQ) 	<ul style="list-style-type: none"> Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
<ul style="list-style-type: none"> · IMDG · Limited quantities (LQ) 	<ul style="list-style-type: none"> 5L

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· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 2289 ISOPHORONEDIAMINE, 8, III

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture** No further relevant information available.

· **Sara**

· Section 302 (extremely hazardous substances):		
None of the ingredients is listed.		
· Section 313 (Specific toxic chemical listings):		
None of the ingredients is listed by CAS number.		
· Sections 311/312 (Specific hazard chemical listings):		
aliphatic amine		
reactive diluent (epoxy functional)		
· Sections 311/312 Hazard Categorizations:		
aliphatic amine	A = Acute health hazard	10-20%
reactive diluent (epoxy functional)	A = Acute health hazard	10-20%
· TSCA (Toxic Substances Control Act):		
All components have the value ACTIVE.		
· Hazardous Air Pollutants		
None of the ingredients is listed.		
· Proposition 65		
· Chemicals known to cause cancer:		
Acrylic copolymer	*	<0.2%
· Chemicals known to cause reproductive toxicity for females:		
None of the ingredients is listed.		
· Chemicals known to cause reproductive toxicity for males:		
None of the ingredients is listed.		
· Chemicals known to cause developmental toxicity:		
None of the ingredients is listed.		
· Carcinogenic categories		
· EPA (Environmental Protection Agency)		
None of the ingredients is listed.		
· TLV (Threshold Limit Value)		
None of the ingredients is listed.		

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· **MAK (German Maximum Workplace Concentration)**

None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H370 Causes damage to organs.

· **Department issuing SDS:**

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

· **Contact:**

Prepared by Fiber Optic Center, Inc.

· **Date of preparation / previous revision**

10/20/2022 /

· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
Skin Sens. 1: Skin sensitisation – Category 1
STOT SE 1: Specific target organ toxicity (single exposure) – Category 1
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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