

Manufacturer:

ÅngströmBond®

Product Name:

ÅngströmBond® AB9320 Blue Epoxy, Heat Cure (2.5g)

Manufacturer Part Number:

AB9320-2.5G

Click here for more details on the AngströmBond® AB9320 Blue Epoxy, Heat Cure (2.5g)



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Tel: 1-508-992-6464

Fax: 1-508-991-8876

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:

· Application of the substance /

AB9320 Adhesive

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

· 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

Danger

· Signal word

· Signal word
· Hazard-determining

components of labeling: Diglycidyl ether Bisphenol-A epoxy resin aliphatic amine

reactive diluent (epoxy functional)

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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/

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.

local/regional/national/international regulations.

P310 Immediately call a poison center/doctor. 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

Classification system: NFPA ratings (scale 0 - 4)

Health = 3 Fire = 1

Reactivity = 0 · HMIS-ratings (scale 0 - 4) Health

Fire 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

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 Indication of any immediate

medical attention and special

treatment needed

No further relevant information available.

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/m³
PAC-2:	
Diglycidyl ether Bisphenol-A epoxy resin	990 mg/m³
PAC-3:	
Diglycidyl ether Bisphenol-A epoxy resin	5,900 mg/m³

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.

Avoid contact with the eyes

Breathing equipment: Not required.

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Protection of hands: Protective gloves (Contd. from page 4)

The glove material has to be impermeable and resistant to the

product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material is based on consideration of the penetration times, rates of diffusion and the degradation of the

material.

The selection of suitable gloves depends not only on the material, but · Material of gloves

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.

· Penetration time of glove

material

The exact penetration time has to be determined by the glove

manufacturer and has to be observed.

· Eye protection: Tightly sealed goggles

9 Physical and chemical properties

Not determined. Blue Ammonia-like Not determined. Not determined. Undetermined. 170 °C >93 °C
Ammonia-like Not determined. Not determined. Undetermined. 170 °C
Not determined. Undetermined. 170 °C
Undetermined. 170 °C
170 °C
170 °C
>93 °C
Not applicable.
Not determined.
Product is not self-igniting.
Product does not present an explosion hazard. Not determined.
Not determined.
Not determined.
Not determined.
1.1 g/cm³
Not determined.





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Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octar	ol/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: Possibility of hazardous

No decomposition if used according to specifications.

reactions Conditions to avoid No dangerous reactions known. No further relevant information available. No further relevant information available.

Incompatible materials: Hazardous decomposition products:

Irritant gases/vapors

11 Toxicological information

- Information on toxicological effects
- · Acute toxicity:

Acute tox	iony.	
LD/LC50	values tha	t are relevant for classification:
Diglycidy	l ether Bis	sphenol-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 of	liluent (ep	oxy 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 in	rritant effe	ect:

on the skin: Caustic effect on skin and mucous membranes.

on the eye: Strong caustic effect.

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Sensitization: information:

Sensitization possible through skin contact.

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

Additional toxicological

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:

No further relevant information available Bioaccumulative potential Mobility in soil No further relevant information available.

Ecotoxical effects:

Remark: Toxic for fish

Additional ecological information:

Water hazard class 2 (Self-assessment): hazardous for water General notes:

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:

Disposal must be made according to official regulations. Recommendation:

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(Contd. from page 7) · Recommended cleansing agent: Water, if necessary with cleansing agents.

Transport information	
· UN-Number	
·DOT	UN2735
· ADR, IMDG, IATA	UN2289
UN proper shipping name	
DOT	Amines, liquid, corrosive, n.o.s. (Isophoronediamine
· ADR	2289 ISOPHORONEDIAMINE
· IMDG	ISOPHORONEDIAMINE, MARINE POLLUTANT
·IATA	ISOPHORONEDIAMINE
Transport hazard class(es)	
· DOT, IMDG, IATA	
· Class	8 Corrosive substances
Label	8
ADR	
· Class	8 (C7) Corrosive substances
· Label	8
· Packing group	
DOT, ADR, IMDG, IATA	III
Environmental hazards:	Product contains environmentally hazardous substances: diglycidyl ether bisphenol-A epoxy resin
Special precautions for user	Warning: Corrosive substances
· Hazard identification number (Kemler code):	80
EMS Number:	F-A,S-B
· Stowage Category	A
Segregation Code	SG35 Stow "separated from" SGG1-acids
Transport in bulk according to Annex I I of	
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT	
· Quantity limitations	On passenger aircraft/rail: 5 L
	On cargo aircraft only: 60 L
ADR	
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 m.
· IMDG	
· Limited quantities (LQ)	5L

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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· 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.

· 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 reactive diluent (epoxy functional)

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%

A = Acute health hazard 10-20%

A = Acute health hazard 10-20%

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.

H302 Harmful if swallowed. Relevant phrases

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:

Contact:

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

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

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

FLINCS: Furonean 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

