

Manufacturer: ÅngströmBond®

Product Name:

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

Manufacturer Part Number:

AB9320CLR-2.5G

► Click here for more details on the ÅngströmBond® AB9320 Clear Epoxy, Heat Cure (2.5g)



Page 1/10

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: AB9320CLR

· 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

· 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:

Deling: Diglycidyl ether Bisphenol-A epoxy resin

aliphatic amine

reactive diluent (epoxy functional)

(Contd. on page 2)

USA -







Manufacturer: ÅngströmBond®

Product Name:

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

Manufacturer Part Number:

AB9320CLR-2.5G

▶ Click here for more details on the ÅngströmBond® AB9320 Clear Epoxy, Heat Cure (2.5g)

Page 2/10

Safety Data Sheet acc. to OSHA HCS

Reviewed on 01/18/2022 Printing date 10/20/2022 Version 1

Trade name: AB9320CLR

(Contd. from page 1) · 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. 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.

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

= 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	

(Contd. on page 3)







Manufacturer:

ÅngströmBond®

Product Name:

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

Manufacturer Part Number:

AB9320CLR-2.5G

▶ Click here for more details on the ÅngströmBond® AB9320 Clear Epoxy, Heat Cure (2.5g)

Page 3/10

Safety Data Sheet acc. to OSHA HCS

Printing date 10/20/2022 Reviewed on 01/18/2022 Version 1

Trade name: AB9320CLR

(Contd. from page 2)

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

No further relevant information available

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.

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 Advice for firefighters

No further relevant information available.

Protective equipment: No special measures required.

6 Accidental release measures

· Personal precautions, protective equipment and

emergency procedures Environmental precautions:

Wear protective equipment. Keep unprotected persons away. 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.

(Contd. on page 4)







Manufacturer:

ÅngströmBond®

Product Name:

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

Manufacturer Part Number:

AB9320CLR-2.5G

► Click here for more details on the ÅngströmBond® AB9320 Clear Epoxy, Heat Cure (2.5g)

Page 4/10

Safety Data Sheet acc. to OSHA HCS

Printing date 10/20/2022 Version 1 Reviewed on 01/18/2022

Trade name: AB9320CLR

(Contd. from page 3)

· 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.

· Breathing equipment: Not required.

(Contd. on page 5)







Manufacturer:

ÅngströmBond®

Product Name:

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

Manufacturer Part Number:

AB9320CLR-2.5G

► Click here for more details on the ÅngströmBond® AB9320 Clear Epoxy, Heat Cure (2.5g)

Page 5/10

Safety Data Sheet acc. to OSHA HCS

Printing date 10/20/2022 Version 1 Reviewed on 01/18/2022

Trade name: AB9320CLR

· Protection of hands: (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 of gloves The selection of suitable gloves depends not only on the material, but also on further marks of quality and varies from manufacturer to

also on further marks or 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 prop

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





Manufacturer:

ÅngströmBond®

Product Name:

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

Manufacturer Part Number:

AB9320CLR-2.5G

► Click here for more details on the ÅngströmBond® AB9320 Clear Epoxy, Heat Cure (2.5g)

Page 6/10

Safety Data Sheet acc. to OSHA HCS

Printing date 10/20/2022 Version 1 Reviewed on 01/18/2022

Trade name: AB9320CLR

		(Contd. from page s
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octano	I/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

reactions

Conditions to avoid Incompatible materials:

Hazardous decomposition

products:

No decomposition if used according to specifications.

No dangerous reactions known.

No further relevant information available. No further relevant information available.

Irritant gases/vapors

11 Toxicological information

· Information on toxicological effects

· 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 o	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.

(Contd. on page 7)







Manufacturer:

ÅngströmBond®

Product Name:

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

Manufacturer Part Number:

AB9320CLR-2.5G

► Click here for more details on the ÅngströmBond® AB9320 Clear Epoxy, Heat Cure (2.5g)

Page 7/10

(Contd. from page 6)

Safety Data Sheet acc. to OSHA HCS

Printing date 10/20/2022 Version 1 Reviewed on 01/18/2022

Trade name: AB9320CLR

· Sensitization:

Sensitization possible through skin contact.

Additional toxicological

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

Ecotoxical 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.

(Contd. on page 8)

USA -







Manufacturer:

ÅngströmBond®

Product Name:

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

Manufacturer Part Number:

AB9320CLR-2.5G

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

Page 8/10

Safety Data Sheet acc. to OSHA HCS

Printing date 10/20/2022 Version 1 Reviewed on 01/18/2022

Trade name: AB9320CLR

(Contd. from page 7)

agent: Water, if necessary with cleansing agents.		
Transport information		
· UN-Number		
DOT	UN2735	
· ADR, IMDG, IATA	UN2289	
UN proper shipping name		
· DOT · ADR	Amines, liquid, corrosive, n.o.s. (Isophoronediamine) 2289 ISOPHORONEDIAMINE	
·ADR ·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):		
EMS Number:	F-A,S-B	
Stowage Category	A SCOR Story "announted from " SCOOL anida	
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	
	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 ml	
	waximum net quantity per outer packaging. 1000 mi	
· 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.



Manufacturer: ÅngströmBond®

Product Name:

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

Manufacturer Part Number:

AB9320CLR-2.5G

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

Page 9/10

Safety Data Sheet acc. to OSHA HCS

Printing date 10/20/2022 Version 1 Reviewed on 01/18/2022

Trade name: AB9320CLR

	(Contd. from page 8)
· 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

· Safety, health and		
environmental regulations/		
legislation specific for the substance or mixture	No further relevant info	ormation available
· Sara	The function for turn in the	
· Section 302 (extremely haza	ardous substances):	
None of the ingredients is liste	ed.	
· Section 313 (Specific toxic of	• ,	
None of the ingredients is liste	ed by CAS number.	
· Sections 311/312 (Specific h	nazard chemical listings)):
aliphatic amine		
reactive diluent (epoxy function	nal)	
· Sections 311/312 Hazard Ca	tegorizations:	
aliphatic amine		A = Acute health hazard 10-2
reactive diluent (epoxy function	nal)	A = Acute health hazard 10-2
· TSCA (Toxic Substances Co	,	
All components have the value	e ACTIVE.	
· Hazardous Air Pollutants		
None of the ingredients is liste	ed.	
Proposition 65		
Chemicals known to cause of	cancer:	
Acrylic copolymer		* <0.
· Chemicals known to cause i	<u> </u>	r females:
None of the ingredients is liste	ed.	
· Chemicals known to cause i	· · · · · · · · · · · · · · · · · · ·	r males:
None of the ingredients is liste	ed.	
· Chemicals known to cause o	developmental toxicity:	
None of the ingredients is liste	ed.	
· Carcinogenic categories		
· EPA (Environmental Protect	• • • • • • • • • • • • • • • • • • • •	
	ed.	
None of the ingredients is liste		

Data is subject to change without notice.



Contact the professionals at Fiber Optic Center for a quote or to get more details.



Manufacturer:

ÅngströmBond®

Product Name:

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

Manufacturer Part Number:

AB9320CLR-2.5G

▶ Click here for more details on the ÅngströmBond® AB9320 Clear Epoxy, Heat Cure (2.5g)

Page 10/10

Safety Data Sheet acc. to OSHA HCS

Printing date 10/20/2022 Version 1 Reviewed on 01/18/2022

Trade name: AB9320CLR

(Contd. from page 9)

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 Prepared by Fiber Optic Center, Inc.

Contact:

10/20/2022 /

ADR: Accord relatif au transport international des marchandises dangereuses par route · Abbreviations and acronvms:

(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 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

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

