

# SAFETY DATA SHEET (SDS)



**Manufacturer:**  
ÅngströmBond®

**Product Name:**  
ÅngströmBond® AB9590 Thermally Conductive Black Epoxy, Room Temperature Cure (2.5g)

**Manufacturer Part Number:**  
AB9590-2.5G

▶ [Click here for more details on the ÅngströmBond® AB9590 Thermally Conductive Black Epoxy, Room Temperature Cure \(2.5g\)](#)



ISO 9001 CERTIFIED  
ISO 14001 CERTIFIED

## Safety Data Sheet acc. to OSHA HCS

### SECTION 1: Identification

#### 1.1 GHS Product identifier

Product name AB9590-2.5G Part A

#### 1.2 Recommended use of the chemical and restrictions on use

Adhesive, encapsulant, potting compound

#### 1.3 Supplier's details

Name Fiber Optic Center, Inc.  
Address 23 Centre Street  
New Bedford, MA 02740-6322 USA  
Telephone 1-508-992-6464  
Fax 1-508-991-8876

#### 1.4 Emergency phone number

Chemtrec Emergency 011-800-424-9300

*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.*

### SECTION 2: Hazard identification

#### 2.1 Classification of the substance or mixture

**GHS classification in accordance with: UN GHS revision 10**

- Skin corrosion/irritation, Cat. 2
- Sensitization - skin, Cat. 1
- Eye damage/irritation, Cat. 2
- Reproductive toxicity, Cat. 2
- Specific target organ toxicity, single exposure, Cat. 3
- Hazardous to the aquatic environment, short-term (acute), Cat. 2
- Hazardous to the aquatic environment, long-term (chronic), Cat. 2

#### 2.2 GHS label elements, including precautionary statements

##### Pictograms



##### Signal word

##### Warning

##### Hazard statement(s)

H315 Causes skin irritation  
H317 May cause an allergic skin reaction  
H319 Causes serious eye irritation  
H361 Suspected of damaging fertility or the unborn child  
H335 May cause respiratory irritation  
H336 May cause drowsiness or dizziness  
H401 Toxic to aquatic life  
H411 Toxic to aquatic life with long lasting effects

##### Precautionary statement(s)

P264 Wash hands thoroughly after handling.  
P280 Wear protective gloves / protective clothing / eye protection  
P302+P352 IF ON SKIN: Wash with soap and water.  
P332+P317 If skin irritation occurs: Get medical help.  
P362+P364 Take off contaminated clothing and wash it before reuse.  
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.  
P272 Contaminated work clothing should not be allowed out of the workplace.

Data is subject to change without notice.

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## Safety Data Sheet AB9590-2.5G Part A

P333+P317	If skin irritation or rash occurs: Get medical help.
P501	Dispose of contents/container to an approved waste disposal plant.
P264+P265	Wash hands thoroughly after handling. Do not touch eyes.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P317	If eye irritation persists: Get medical help.
P203	Obtain, read and follow all safety instructions before use.
P318	IF exposed or concerned, get medical advice.
P405	Store locked up.
P271	Use only outdoors or in a well-ventilated area.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P319	Get medical help if you feel unwell.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P273	Avoid release to the environment.
P391	Collect spillage.

### SECTION 3: Composition/information on ingredients

#### 3.1 Substances

##### 1. Non-hazardous ingredients

Concentration 35 - 45 % (weight)  
CAS no. Proprietary

##### 2. Polymer Resin

Concentration 20 - 30 % (weight)  
CAS no. Proprietary

##### 3. Epoxy Resin

Concentration 15 - 25 % (weight)  
CAS no. Proprietary

##### 4. Epoxy Diluent

Concentration 5 - 15 % (weight)  
CAS no. Proprietary

##### 5. Silica, fumed

Concentration 1 - 5 % (weight)  
CAS no. 67762-90-7

### SECTION 4: First-aid measures

#### 4.1 Description of necessary first-aid measures

If inhaled	Move to fresh air. Aid in breathing, if necessary, and get immediate medical attention.
In case of skin contact	Remove contaminated clothing/shoes and wash affected areas with water followed by washing with soap and water. If irritation occurs, get medical attention. Launder contaminated clothing before reuse.
In case of eye contact	In case of eye contact - Immediately wash eyes with running water for 15 minutes. Get immediate medical attention.
If swallowed	DO NOT INDUCE VOMITING. Dilute with water or milk and call a physician immediately. Never give fluids or induce vomiting if the victim is unconscious or having convulsions.

#### 4.2 Most important symptoms/effects, acute and delayed

No data available.

#### 4.3 Indication of immediate medical attention and special treatment needed, if necessary

No data available

### SECTION 5: Fire-fighting measures

#### 5.1 Suitable extinguishing media

Use water fog, alcohol foam, carbon dioxide or dry chemical extinguishing media.

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## Safety Data Sheet AB9590-2.5G Part A

### 5.2 Specific hazards arising from the chemical

Carbon oxides

### 5.3 Special protective actions for fire-fighters

Material will not burn unless preheated. Firefighters should not enter confined space without full bunker gear (helmet with faces shield, bunkercoats, gloves and rubber boots), including a positive pressure, NIOSH approved, self-contained breathing apparatus.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Extinguish all sources of ignition. Wear appropriate clothing, gloves, goggles or glasses. Provide adequate ventilation.

### 6.2 Environmental precautions

Do not discharge into any sewage system or waterway.

### 6.3 Methods and materials for containment and cleaning up

Absorb with earth, sand, or other inert material and place in suitable containers for disposal.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Observe normal standard of industrial hygiene for handling chemicals. Avoid contact with skin and eyes.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well ventilated area. Keep containers tightly closed and away from heat, direct sunlight and ignition sources.

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## SECTION 8: Exposure controls/personal protection

### 8.1 Appropriate engineering controls

Mechanically exhaust vapors at points of application. Maintain airborne contaminant levels of chemicals below their recommended TLV's or PEL's.

### 8.2 Individual protection measures, such as personal protective equipment (PPE)

#### Eye/face protection

Chemical goggles or safety glasses with side shields.

#### Skin protection

Avoid prolonged or repeated contact with skin. Wear impervious gloves such as nitrile, latex, or polychloroprene and other clothing to prevent contact.

#### Respiratory protection

For confined areas or areas with poor ventilation, use an approved cartridge type, organic vapor respirator.

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## SECTION 9: Physical and chemical properties

### 9.1 Basic physical and chemical properties

Physical state	Liquid
Appearance	Paste
Color	Black
Odor	Slight odor
Odor threshold	Not determined
Melting point/freezing point	Not determined
Boiling point or initial boiling point and boiling range	> 200 deg. C
Flammability	Not determined
Lower and upper explosion limit/flammability limit	Not determined
Flash point	> 100 deg. C
Auto-ignition temperature	Not determined
Decomposition temperature	Not determined
pH	Not determined
Kinematic viscosity	Not determined
Solubility	Not determined
Partition coefficient n-octanol/water (log value)	Not determined
Vapor pressure	Not determined

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## Safety Data Sheet AB9590-2.5G Part A

Evaporation rate	Not determined
Density and/or relative density	1.54
Relative vapor density	Heavier than air
Particle characteristics	No data available on product itself.

**Supplemental information regarding physical hazard classes**  
No data available on product itself.

**Further safety characteristics (supplemental)**  
No data available on product itself.

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

No data available on product itself.

#### 10.2 Chemical stability

Stable under normal conditions.

#### 10.3 Possibility of hazardous reactions

Can react vigorously with strong oxidizing agents, strong Lewis acids or mineral acids, and strong mineral and organic bases.

#### 10.4 Conditions to avoid

Storage in open containers, sources of ignition, high temperatures and direct sunlight.

#### 10.5 Incompatible materials

Strong oxidizing agents, strong Lewis acids or mineral acids, and strong mineral and organic bases.

#### 10.6 Hazardous decomposition products

Carbon monoxide, aldehydes, acids, and other organic substances can be formed during combustion, thermal, or oxidative decomposition. Reaction with some curing agents may produce considerable heat.

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

##### Acute toxicity

No data available on product itself.

##### ATE, mix

LD50, oral = > 3,200 mg/kg

LD50, dermal = > 2,000 mg/kg

##### Skin corrosion/irritation

Avoid prolonged or repeated contact with skin. Wear impervious gloves such as nitrile, latex, or polychloroprene and other clothing to prevent contact.

##### Serious eye damage/irritation

Chemical goggles or safety glasses with side shields

##### Respiratory or skin sensitization

For confined areas or areas with poor ventilation, use an approved cartridge type, organic vapor respirator.

##### Germ cell mutagenicity

No data available on product itself.

##### Carcinogenicity

No data available on product itself.

##### Reproductive toxicity

No data available on product itself.

##### Specific target organ toxicity (STOT) - single exposure

No data available on product itself.

##### Specific target organ toxicity (STOT) - repeated exposure

No data available on product itself.

##### Aspiration hazard

No data available on product itself.

### SECTION 12: Ecological information

#### 12.1 Toxicity

No data available on product itself.

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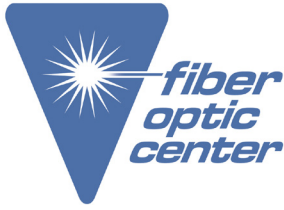
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## Safety Data Sheet AB9590-2.5G Part A

### ATE, mix

EC50 (fish, 96h): = > 2.5 mg/L  
EC50 (daphnia magna, 48h) = > 2.25 mg/L  
EC50 (algae, 72h) = > 60 mg/L  
EC50 (bacteria, 21d) = > 110 mg/L

### 12.2 Persistence and degradability

No data available on product itself.

### 12.3 Bioaccumulative potential

No data available on product itself.

### 12.4 Mobility in soil

No data available on product itself.

### 12.5 Results of PBT and vPvB assessment

No data available on product itself.

## SECTION 13: Disposal considerations

### 13.1 Disposal methods

Dispose of contents/container in accordance with all local, regional, national and international regulations.

## SECTION 14: Transport information

14.1 UN Number	None
14.2 UN Proper Shipping Name	None
14.3 Transport hazard class(es)	None
14.4 Packing group	None
14.5 Environmental hazards	None
14.6 Special precautions for user	None
14.7 Transport in bulk according to IMO instruments	None

## SECTION 15: Regulatory information

### 15.1 HMIS Rating

AB9590-2.5G Part A	
HEALTH	2
FLAMMABILITY	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	

## SECTION 16: Other information

To the best of our knowledge, the information contained herein is accurate and meets all State and Federal guidelines. However, Creative Materials Inc. does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Final determination of the suitability of any material is the sole responsibility of the user. SDS prepared 21st of August 2024. Updated SDS to current GHS revision (10).

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