

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)

ÅNGSTRÖMBOND®

Safety Data Sheet
acc. to OSHA HCS

ISO 9001 CERTIFIED
ISO 14001 CERTIFIED

REVISION DATE: 10/25/24
REVISION: 3.0

1. PRODUCT & COMPANY IDENTIFICATION:

1.1 Product Identifiers:

Product (Trade) Name: AB9590-2.5G Part B
Brand
CAS

ÅngströmBond®
Mixture

1.2 Relevant identified uses of the substance or mixture and uses advised against:

Identified uses Epoxy curing agent

1.3 Details of the supplier of the safety data sheet:

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

1.4 Emergency Telephone Number

Chemtrec Emergency (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.

2. HAZARD IDENTIFICATION:

2.1 Classification of substance or mixture:

Classification according to GHS formatting

DANGER!

Acute Toxicity, Oral	Category 4	(H302)
Skin Corrosion	Category 1B	(H314)
Skin Sensitization	Category 1	(H317)
Serious Eye Damage	Category 1	(H318)

2.2 Label Elements:



Hazard statement(s)

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.

Precautionary Statement(s)

Prevention:

P261	Avoid breathing dust fume/gas/mist/vapor/spray.
P264	Wash thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
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Contact the professionals at Fiber Optic Center for a quote or to get more details.

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P303+P361+P353

IF ON SKIN (or hair): remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

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
P333+P313

Immediately call a POISON CENTER or doctor/physician.

P363

If skin irritation or rash occurs: get medical advice/attention.

Storage:

Wash contaminated clothing before reuse.

None known.

Disposal:

P501

Dispose of contents to appropriate local waste disposal center.

2.3 Other hazards:

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances:

MATERIAL	CAS No.	%
Benzyl alcohol	100-51-6	< 40
Trimethylhexamethylenediamine	25620-58-0	< 10
Modified cycloaliphatic amine	Proprietary	> 15

4. FIRST AID MEASURES:

4.1 Description of first aid measures:

General advice: Seek medical advice.

In case of eye contact: Immediately wash eyes with running water for 15 minutes. 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.

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.

If inhaled: Move to fresh air. Aid in breathing, if necessary, and get immediate medical attention.

4.2 Most important symptoms and effects, both acute and delayed:

Target organs: Eyes, skin, respiratory system, liver, kidney, pancreas, spleen, central nervous system

4.3 Indication of any medical attention and special treatment needed:

Adverse eye effects such as conjunctivitis or corneal damage; eye disease. Can cause severe burns, blindness, irritation.

5. FIRE-FIGHTING MEASURES:

5.1 Extinguishing Media

Suitable extinguishing media:

Use water fog, alcohol foam, CO₂ or dry chemical extinguishing media.

5.2 Special hazards arising from the substance or mixture:

Carbon oxides, toxic nitrogen oxide gases.

5.3 Advice for firefighters:

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

5.4 Further information:

No data available on product itself.

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.

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6.3 Methods and materials for containment and cleanup:

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

6.4 Reference to other sections:

For disposal see section 13.

7. HANDLING & STORAGE:

7.1 Precautions for safe handling:

Observe normal standards of industrial hygiene for handling chemicals. Avoid contact with skin and eyes. Use extreme caution when spraying or aerosolizing this product.

7.2 Conditions for safe storage, including incompatibilities:

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

7.3 Specific end uses:

Including but not limited to: curing agent for epoxy systems.

8. EXPOSURE CONTROLS & PERSONAL PROTECTION:

8.1 Control Parameters:

Components with control parameters:

MATERIALS	LIMIT VALUES
Benzyl alcohol	TWA: 10 ppm

Exposure controls

Appropriate engineering controls

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

Personal protective equipment

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. Use extreme caution when spraying or aerosolizing this product.

Eye Protection

Chemical goggles or safety glasses with side shields.

Protective Clothing

Impervious gloves, coveralls, apron, boots as necessary to prevent skin contact.

9. PHYSICAL & CHEMICAL PROPERTIES:

9.1 Information on basic physical and chemical properties:

a) Appearance:

Form:

Liquid

Color:

Colorless

b) Odor:

Ammonia-like odor

c) Odor threshold:

Not determined

d) pH:

Alkaline

e) Melting/freezing point:

Not determined

f) Boiling point:

> 200°C

g) Flash point:

> 90°C

h) Evaporation rate:

Not determined

i) Flammability (solid, gas):

Not determined

j) Upper/lower flammability limits (UEL/LEL):

Upper: Not determined

Lower: Not determined

k) Vapor pressure @ 20°C:

Not determined

l) Vapor density:

Heavier than air

m) Specific gravity (water=1):

0.99

n) Solubility in water:

Not determined

o) Partition coefficient (n-octanol/water):

Not determined

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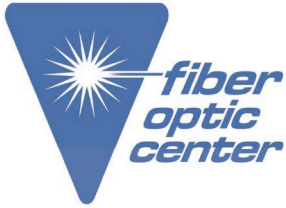
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p) Auto-ignition temperature: Not determined
q) Decomposition temperature: Not determined
r) Viscosity (25°C): Not determined
s) Explosive properties: Not determined
t) Oxidizing properties: Not determined
u) Volatiles (by % wt.): Not determined

9.2 Other safety information:
No data available on product itself.

10. STABILITY & 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. Avoid contact with sodium hypochlorite.

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.

11. TOXICOLOGICAL INFORMATION:

Acute Toxicity
No data available on product itself.

ATE, mix
LD50, oral = > 1,000 mg/kg
LD50, dermal = > 2,800 mg/kg

Skin Corrosion/Irritation
May cause severe skin irritation or corrosion (based on components).

Serious Eye Damage/Irritation
May cause serious eye damage (based on components).

Sensitization
May cause skin sensitization (based on components).

Specific Target Organ Toxicity – Single Exposure (STOT – SE)
No data available on product itself.

Specific Target Organ Toxicity – Repeated Exposure (STOT – RE)
No data available on product itself.

Carcinogenicity
No data available on product itself.
ACGIH Classification: Not classified.
IARC Classification: Not classified.
NTP Classification: Not classified.
OSHA Classification: Not classified.

Teratogenicity, Reproductive Toxicity, and Mutagenicity

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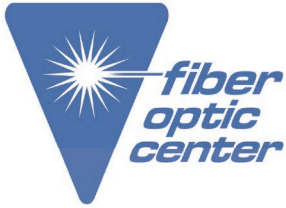
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No data available on product itself.

Aspiration Hazard
No data available on product itself.

12. ECOLOGICAL INFORMATION:

12.1 Toxicity:

No data available on product itself.

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.

12.6 Other information/effects:

Do not allow discharge into drains and waterways. Avoid ground contamination.

13. DISPOSAL RECOMMENDATIONS:

13.1 Waste treatment methods:

Place in an appropriate disposal facility in compliance with local regulations.

14. TRANSPORT INFORMATION:

14.1 UN number

2735

14.2 UN proper shipping name

DOT:

ADR/RID:

IMG:

IATA:

Amines, liquid, corrosive, n.o.s. (cycloaliphatic amines)

Amines, liquid, corrosive, n.o.s. (cycloaliphatic amines)

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14.3 Transport hazardous class(es)

8

14.4 Packaging group

III

14.5 Environmental hazards

None

14.6 Special precautions for user

None

15. REGULATORY INFORMATION:

This safety datasheet complies with GHS formatting.

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and of the Code of Federal Regulations, Part 372.

Component	CAS	Weight %
None.		

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

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State Regulations

California Proposition 65

This product contains NO chemical(s) known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA (Toxic Substance Control Act)

All ingredients listed or exempt.

15.2 Chemical Safety Assessment

No data available on product itself.

16. OTHER INFORMATION:

HMIS Rating:

H – 3, F – 1, R – 0

To the best of our knowledge, the information contained herein is accurate and meets all State and Federal guidelines. However, Fiber Optic Center, 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 4th of April 2022. Updated formatting, hazard information, sections 11 and 12.

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