

Manufacturer:

ÅngströmBond®

Product Name:

ÅngströmBond® ÅnaeBond™ AB202 Fast Cure Adhesive, Room Temperature Cure (20ml Adhesive and 1.75oz Primer)

Manufacturer Part Number:

AB202-20ML

Click here for more details on the ÅngströmBond® ÅnaeBond™ AB202 Fast Cure Adhesive, Room Temperature Cure (20ml Adhesive and 1.75oz Primer)



AB202 from AngstromBond

Adhesives

Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: AB 202 Adhesive Product type: Restriction of Use: None identified

For product emergencies involving spill, leak, fire, exposure, or accident call CHEMTREC at (800) 424-9300. For all other inquiries call **Fiber Optic CenterTM, Inc.** at (800) 473-4237.

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER: BONDS SKIN IN SECONDS. COMBUSTIBLE LIQUID. CAUSES EYE IRRITATION. MAY CAUSE RESPIRATORY IRRITATION. MAY CAUSE GENETIC DEFECTS

HAZARD CLASS	HAZARD CATEGORY
FLAMMABLE LIQUID	4
EYE IRRITATION	2B
GERM CELL MUTAGENICITY	1B
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	3

PICTOGRAM(S)



Obtain special instructions before use. Do not handle until all safety precautions have been Cottain special misuations device use. Bot inflamed with all all safety prevailables have been read and understood. Keep away from heat, sparks, open flames, hot surfaces - no smoking. Avoid breathing vapors, mist, or spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves, eye protection, and face protection. Use

personal protective equipment as required.

Response:

IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing. IF exposed or concerned: Get medical attention. If eye irritation persists: Get medical attention. In case of fire: Use foam, dry chemical or carbon dioxide to extinguish.

Storage:

Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place

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Keep cool. Store locked up.

Disposal:

Dispose of contents and/or container according to Federal, State/Provincial and local

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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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governmental regulations

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS			
Hazardous Component(s)	CAS Number	Percentage*	
Ethyl 2-cyanoacrylate	7085-85-0	60 - 100	
Filler	Proprietary	1 - 5	
Carbon black	1333-86-4	1 - 5	
Hydroguinone	123-31-9	0.1 - 1	

Exact percentage is a trade secret. Concentration range is provided to assist users in providing appropriate protections.

4. FIRST AID MEASURES

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. If symptoms develop and persist, get medical atte

Skin contact: Do not pull bonded skin apart. Soak in warm soapy water. Gently peel apart using a blunt instrument. If skin is burned due to the rapid generation of heat

by a large drop, seek medical attention. If lips are bonded, apply warm water to the lips and encourage wetting and pressure from saliva in mouth. Peel or roll lips apart. Do not pull lips apart with direct opposing force.

Eye contact: Immediately flush with plenty of water for at least 15 minutes. Get medical attention. If eyelids are bonded closed, release eyelashes with warm water by

covering with a wet pad. Do not force eye open. Cyanoacrylate will bond to eye protein and will cause a lachrymatory effect which will help to debond the adhesive. Keep eye covered until debonding is complete, usually within 1-3 days. Medical attention should be sought in case solid particles of polymerized

cyanoacrylate trapped behind the eyelid caused abrasive damage

Ingestion: Ensure breathing passages are not obstructed. The product will polymerize

rapidly and bond to the mouth making it almost impossible to swallow. Saliva will separate any solidified product in several hours. Prevent the patient from swallowing any separated mass.

Symptoms: See Section 11.

Surgery is not necessary to separate accidentally bonded tissues. Experience Notes to physician:

has shown that bonded tissues are best treated by passive, non-surgical first aid. If rapid curing has caused thermal burns they should be treated

symptomatically after adhesive is removed.

5. FIRE FIGHTING MEASURES

Extinguishing media: Water spray (fog), foam, dry chemical or carbon dioxide

Special firefighting procedures: Wear a self-contained breathing apparatus with a full face piece operated in pressure-demand or other positive pressure mode.

Unusual fire or explosion hazards: None

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Trace amounts of toxic and/or irritating fumes may be released and the use of Hazardous combustion products: breathing apparatus is recommended.

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions: Ventilate area. Do not allow product to enter sewer or waterways

Clean-up methods: Do not use cloths for mopping up. Flood with water to complete polymerization and scrape off the floor. Cured material can be disposed of as non-hazardous

7. HANDLING AND STORAGE

Handling:

Avoid contact with fabric or paper goods. Contact with these materials may cause rapid polymerization which can generate smoke and strong irritating vapors, and cause thermal burns. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling

Storage: Keep in a cool, well ventilated area away from heat, sparks and open flame.

Keep container tightly closed until ready for use

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Ethyl 2-cyanoacrylate	0.2 ppm TWA	None	None	None
Filler	10 mg/m3 TWA Inhalable dust. 3 mg/m3 TWA Respirable fraction.	5 mg/m3 TWA	None	None
Carbon black	3 mg/m3 TWA Inhalable fraction.	3.5 mg/m3 PEL	None	None
Hydroquinone	1 mg/m3 TWA (Dermal sensitization)	2 mg/m3 PEL	None	None

Use positive down-draft exhaust ventilation if general ventilation is insufficient **Engineering controls:**

to maintain vapor concentration below established exposure limits

Respiratory protection: Use NIOSH approved respirator if there is potential to exceed

exposure limit(s).

Eye/face protection: Safety goggles or safety glasses with side shields. Full face protection should

be used if the potential for splashing or spraying of product exists.

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Skin protection: Use nitrile gloves and aprons as necessary to prevent contact. Do not use

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid Color: Black Odor: Sharp, irritating Odor threshold: 1 - 2 ppm Not applicable $< 0.2 \text{ mm hg } (77 \text{ F } (25 ^{\circ}\text{C})) > 300 \text{ F } (> 148.9 ^{\circ}\text{C})$ pH: Vapor pressure:

Boiling point/range: Melting point/ range: Not determined

Specific gravity: Vapor density: Flash point: Approximately

80 - 93 ℃ (176年 - 199.4 年) Tagliabue closed cup

Flammable/Explosive limits - lower: Not determined Not determined Flammable/Explosive limits - upper: Autoignition temperature: Evaporation rate: 485 ℃ (905年) Not available.

Solubility in water Polymerizes in presence of water Not applicable

Partition coefficient (n-octanol/water):

VOC content: < 2 %; < 20 g/l (California SCAQMD Method 316B) (Estimated)

Viscosity: Not available Decomposition temperature: Not available

10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions

Hazardous reactions: Rapid exothermic polymerization will occur in the presence of water, amines, alkalis and

Hazardous decomposition

products:

Water, amines, alkalis and alcohols Incompatible materials:

Reactivity: Not available.

Conditions to avoid: Spontaneous polymerization.

11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure: Skin, Inhalation, Eves

Potential Health Effects/Symptoms

Inhalation: May cause respiratory tract irritation. Exposure to vapors above the established exposure

limit results in respiratory irritation, which may lead to difficulty in breathing and tightness in

the chest.

Skin contact: Bonds skin in seconds. May cause skin irritation. Cyanoacrylates have been reported to cause

allergic reaction but due to rapid polymerization at the skin surface, an allergic response is rare Cyanoacrylates generate heat on solidification. In rare circumstances a large drop will burn the

skin. Cured adhesive does not present a health hazard even if bonded to the skin Irritating to eyes. Causes excessive tearing. Eyelids may bond.

Eye contact: Ingestion:

Not expected to be harmful by ingestion. Rapidly polymerizes (solidifies) and bonds in mouth. It is almost impossible to swallow.

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Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects	
Ethyl 2-cyanoacrylate	None	Irritant, Allergen, Respiratory	
Filler	None	Irritant	
Carbon black	Oral LD50 (RAT) = > 8,000 mg/kg	Respiratory, Some evidence of carcinogenicity	
Hydroquinone	Oral LD50 (RAT) = 320 mg/kg Oral LD50 (RABBIT) = 540 mg/kg Dermal LD50 (RAT) = > 900 mg/kg	Blood, Bone Marrow, Central nervous system, Developmental, Eyes, Immune system, Irritant, Liver, Mutagen, Skin, Thyroic	

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Ethyl 2-cyanoacrylate	No	No	No
Filler	No	No	No
Carbon black	No	Group 2B	No
Hydroquinone	No	No	No

12. ECOLOGICAL INFORMATION

Ecological information:

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Follow all local, state, federal and provincial regulations for disposal.

Hazardous waste number: Not a RCRA hazardous waste.

14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name: Hazard class or division: Combustible liquid, n.o.s. (Cyanoacrylate ester) Combustible Liquid

Identification number: NA 1993

Packing group:

International Air Transportation (ICAO/IATA)

Proper shipping name: Aviation regulated liquid, n.o.s. (Cyanoacrylate ester)

Hazard class or division: Identification number: UN 3334 Ш

Packing group: Water Transportation (IMO/IMDG)

Proper shipping name: Not regulated Hazard class or division: Identification number: Packing group:

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15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act

Inventory.

TSCA 12 (b) Export Notification: None above reporting de minimis

CERCLA/SARA Section 302 EHS: CERCLA/SARA Section 311/312:

Hydroquinone (CAS# 123-31-9). Fire, Reactive, Delayed Health, Immediate Health

Fire, Reactive, Delayed Health, In None above reporting de minimis

CERCLA/SARA Section 313:

California Proposition 65:

This product contains a chemical known in the State of California to cause cancer. This

product contains a chemical known to the State of California to cause birth defects or other

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reproductive harm.

Canada Regulatory Information

CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the Canadian Domestic

Substances List

16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: New Safety Data Sheet format.

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