



CARTELL

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MATERIAL SAFETY DATA SHEET

MXBON® TB 909

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Item No.: MXBON® TB 909

Product Type: Cyanoacrylate Ester

2. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients	CAS No.	%
Ethyl Cyanoacrylate	7085-85-0	60 - 100
Carbon Black	1333-86-4	1 - 5

Exposure Limits (TWA)	ACGIH	OSHA	OTHER
Ingredients	(TLV)	(PEL)	
Ethyl Cyanoacrylate	0.2 ppm TWA	None	None
Carbon Black	3.5 mg/m ³ TWA	3.5 mg/m ³ TWA	None

3. HAZARDS IDENTIFICATION

HMIS® Code:

Health Hazard: 2
Flammability Hazard: 2
Reactivity Hazards: 1
Personal Protection: See Section 8.

WARNING:

BONDS SKIN IN SECONDS.
MAY CAUSE EYE AND RESPIRATORY IRRITATION.
COMBUSTIBLE LIQUID AND VAPOR.

Routes of exposure: Skin, eyes, and inhalation.

Potential Health Effects

Inhalation: Exposure to vapors above the established exposure limit results in respiratory irritation, which may lead to difficulty in breathing and feeling of tightness in the chest.

Skin contact: Bonds skin in seconds. May cause skin irritation. Cyanoacrylates have been reported to cause allergic reactions but due to the rapid polymerization, allergic response is rare. Cyanoacrylates generate heat on polymerization, so very large amounts will burn the skin. The solidified does not present a health problem when bonded to skin.

Eye contact: Irritating to eyes. Will bond eyelids. Will cause excessive tearing.

Ingestion: Not expected to be harmful by ingestion. Rapid polymerize and bonds in mouth. It is very difficult to swallow.

Existing conditions aggravated by exposure: Respiratory, skin and eye disorders.

4. FIRST AID MEASURES

Ingestion: Ensure that breathing airways are not obstructed. The product will polymerize rapidly and bond to the mouth making swallowing extremely difficult. Usually any solidified product will separate after a few hours. Prevent any further swallowing of the separated material.

Inhalation: Remove to fresh air. If symptoms persist, get medical attention.

Skin Contact: Do not pull bonded skin apart. Soak in warm soapy water. Gently pry apart using a blunt instrument. If skin is burned because of large amounts of product, get medical attention.

Eye Contact: Immediately flush with plenty of water. Get medical attention. If eyelids are bonded shut, release eyelashes first with a wet pad and warm water. Do not force eye open. Cyanoacrylates will bond to the eye, tearing will help de-bond the adhesive. Keep eye covered until de-bonding is complete usually within 3 days. Solid particles from the polymerized product can cause abrasive damage. Get medical attention.

5. FIRE FIGHTING MEASURES

Flash Point: 75°C to more than 93°C Method: Tag Closed Cup

Auto ignition temperature: 485°C.

Lower explosive limit: not available

Upper explosive limit: not available

Extinguishing agents: Carbon dioxide, foam, and dry chemical

Special firefighting procedures: Fire Fighters should wear positive pressure self-contained breathing apparatus.

Hazardous combustion products: Trace amounts of toxic and irritating fumes.

Unusual Fire or Explosion Hazards: None

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions: Prevent spill from entering drains or open waters. Ventilate area.

Clean-up procedure: Do not use cloth for clean up. Flood with water to complete polymerization and scrape up the polymer. Solid material can be disposed as a non-hazardous waste.

7. HANDLING AND STORAGE

Storage: Keep in a cool, well-ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.

Handling: Avoid contact with eyes, skin and clothing. Avoid breathing vapor and mists. Wash thoroughly after handling. Avoid contact with fabric and paper goods. Contact with these may cause rapid polymerization that can generate smoke and strong irritating vapors, and can cause thermal burns.

Incompatible products: No special restrictions on storage with other products.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering controls: If general ventilation is insufficient to maintain vapor concentration below established exposure limits, use positive downdraft exhaust ventilation.

Respiratory protection: If there is a potential to exceed exposure limits, use an approved respirator.

Eyes / face protection: Safety glasses with side shields or chemical splash goggles.

Skin protection: Use Nitrile gloves and aprons to prevent contact. Do Not Use PVC, nylon or cotton.

See Section 2 for exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Gel.

Color: Black.

Odor: Sharp, irritating.

Boiling Point / range: Greater than 150 °C.

Melting point / range: Not Determined.

pH: Not applicable.

Solubility in Water: Polymerizes in the presence of water.

Specific Gravity: 1.10 @ 25 °C

Partition coefficient (octanol/water): Not applicable.

VOC content: Less than 20 g/l (California SCAQMD Method 316B) (estimated).

Vapor Pressure: Less than 0.2 mm Hg

Vapor Density: Approximately 3.

Evaporation Rate: Not available.

10. STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions.
Hazardous polymerization:	Rapid exothermic polymerization will occur in the presence of water, amines, alkalis and alcohols.
Incompatibility:	Water, amines, alkalis, and alcohols.
Conditions to Avoid:	Spontaneous polymerizations.
Hazardous decomposition products:	None.

11. TOXICOLOGICAL INFORMATION

Product toxicity data:	Acute oral LD50 greater than 5,000 mg/kg (rat)(estimated).. Acute dermal LD50 greater than 2000 mg/kg (rabbit)(estimated).
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Carcinogen Status

Hazardous component	NTP Carcinogen	OSHA Carcinogen	IARC Carcinogen
Ethyl Cyanoacrylate	No	No	No
Carbon Black	No	Group 2B	No

Literature Referenced Target Organ & Other Health Effects

Hazardous component	Health Effects / Target Organ
Ethyl Cyanoacrylate	Allergen, Irritant, Respiratory
Carbon Black	Respiratory, some evidence of carcinogenicity.

12. ECOLOGICAL INFORMATION

Ecological Information:	Not Known
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13. DISPOSAL INFORMATION

Dispose of according to local, province /state, country 's governmental regulations
Not a RCRA hazardous waste.

14. TRANSPORT INFORMATION

US DOT - Ground (49 CFR):

Proper shipping name:	Combustible liquids, n.o.s. (Cyanoacrylate ester).
Hazard class or division:	3
Identification number:	NA 1993
Packing group:	None.
Exceptions:	(Not more than 450 liters) Unrestricted.
Marine pollutant:	None.

International Air transportation - (ICAO/IATA):

Proper shipping name:	Aviation regulated liquids, n.o.s. (Cyanoacrylate ester).
Hazard class or division:	9
Identification number:	UN 3334
Packing group:	None.

Exceptions: (Not more than 500 ml) Unrestricted.

Water Transportation - (IMO/IMDG):

Proper shipping name : Unrestricted.
Hazard class or division: None
Identification number: None
Packing group: None.
Marine pollutant: None.

15. REGULATORY INFORMATION

US Regulatory Information:

TSCA 8 (b) Inventory Status: All components are listed or exempt from listing.
TSCA 5(a)(2) SNUR: None
TSCA 12 (b) Export Notification: None
CERCLA/SARA Sec. 302 EHS: None.
CERCLA/SARA Sec. 311/312: Immediate Health Hazard, Delayed Health Hazard, Fire, and Reactive.
CERCLA/SARA Sec. 313: This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372): None.
California Proposition 65: No California Proposition 65 listed chemicals are known to be present.

Canada Regulatory Information:

CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the Domestic Substances List.
WHMIS hazard class: B.3, D.2.B.

16. OTHER INFORMATION

This MSDS contains changes from previous versions: Expanded version.

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