

MATERIAL SAFETY DATA SHEET

First Aid for Ingestion: Do not induce vomiting. Saliva will cause cyanoacrylate to polymerize in mouth. If lips are bonded together, use warm water to gently separate the lips apart.

Section 5. Fire Fighting Measures

Flash Point (°F/°C): The lowest known value is CLOSED CUP: 79°C (174.2°F). (Ethyl 2-cyanoacrylate)

Flammable Limit (vol%): Not available.

Auto-ignition Temp. (vol%): Not available.

Extinguisher Media: Small Fire: Use DRY chemical powder.
Large Fire: Use water spray, fog or foam. Do not use water jet.

Fire Fighting Procedures: Full protective equipment, including self contained breathing apparatus is recommended.
Water from fog nozzle may be used to cool containers to prevent pressure build up.

Unusual Fire and Explosion Hazards: No additional remarks.

Section 6. Accidental Release Measures

Spill or Release Procedures: Small Spill: Absorb with an inert material and place in an appropriate waste disposal container.
Large Spill: Combustible material. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7. Handling and Storage

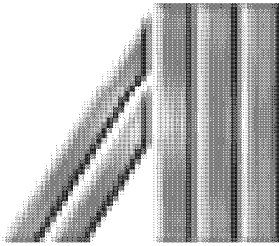
Handling: To avoid fire, minimize ignition sources. Avoid contact with skin and eyes. In case of insufficient ventilation, wear suitable respiratory equipment. May react in presence of moisture. May react or be incompatible with alkalis.

Storing: Contains moisture sensitive material; store in a dry place. Keep away from sources of ignition. Keep container tightly closed and dry. Keep in a cool, well-ventilated place.

Section 8. Exposure Controls / Personal Protective Equipment

Engineering Controls: Good general ventilation should be sufficient to control airborne levels in small quantity use. Local exhaust is recommended for bulk repackaging or continuous large quantity use.

Eyes: Safety glasses.



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Body: Synthetic apron.

Respiratory: Wear appropriate respirator when ventilation is inadequate.

Hands: Gloves (impervious).

Feet: Wear chemical resistant shoes.

Personal Protection in case of a Large Spill: A self contained breathing apparatus should be used to avoid inhalation of the product. Boots. Full suit. Gloves. Safety glasses.

Section 9. Physical and Chemical Properties

Appearance @ 25°C:	Transparent liquid	Vapor Pressure:	Highest known value is 0.3mm of Hg
Odor @ 25°C:	Acrid	Vapor Density:	> 1 (Ethyl 2-Cyanoacrylate)
pH	Not applicable	Evaporation Rate:	Not available
Specific Gravity:	1.05	VOC:	1%
Ignition:	Not applicable	Water Reactive:	Reactive
Total Solids, %	Not applicable	VOC:	2.76g/L
Boiling /	>190°C (374°F)		
Condensation Point:			
Solubility	Insoluble in cold water		

Section 10. Stability and Reactivity

Stability: Stable but it is water reactive.

Hazardous Decomposition Products:
Not available

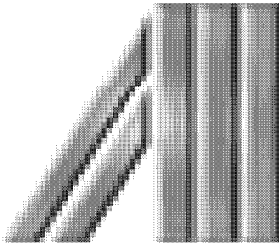
Incompatibility (Materials to Avoid):
Reactive with alkalis, moisture, peroxides.

Hazardous Polymerization:
Yes due to heat generated during polymerization.

Section 11. Toxicological Information

Toxicity to Animals: LD50: Not available; LC50: Not available

Chronic Effects on Humans



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The substance is toxic to mucous membranes, upper respiratory tract.

Other Toxic Effects on Humans

Slightly hazardous in case of skin contact (irritant). Concentrated vapors are hazardous if inhaled.

Special Remarks on Toxicity to Animals

Not available.

Special Remarks on Chronic Effects on Humans

Continuous high volume usage without adequate ventilation can irritate eyes and nose.

Special Remarks on Other Toxic Effects on Humans

Vapors are irritating to mucous membrane and upper respiratory tract. Under normal conditions of use of this product, no respiratory protection is required. Approved breathing apparatus is required if large spill occurs.

Section 12. Ecological Information

Ecotoxicity: No data available

BOD5 and COD: No data available

Biodegradable/OECD:
No data available

Mobility: No data available

Products of Degradation

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation

No data available

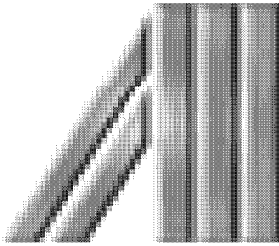
Special Remarks on the Products of Biodegradation

No data available

Section 13. Disposable Considerations

Waste Information: Cured products may be land filled. Uncured product must be handled according to local regulations.

Waste Stream: Consult your local authority. Consult your local hazardous waste management for advice.



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Section 14. Transportation Information

DOT (49CFR 172)

Dot Classification Combustible Liquid, n.o.s., 3 NA1993, I
Label not required for shipments less than 450 liters (119 gallons) or less are not regulated; the following apply to larger quantities:
Quantity limitations:
Passenger aircraft or railcar: 60 L.
Cargo aircraft only: 220 L.

AD/RID Classification:

Not controlled under ADR (Europe).

IMO/IMDG Classification:

Not controlled under IMDG.

ICAO/IATA Classification:

Not controlled under IATA.

Section 15. Regulatory Information

HCS Classification Class: Combustible liquid having a flash point between 37.8°C (100°F) and 93.3°C (200°F)

U.S. Federal
Regulations:

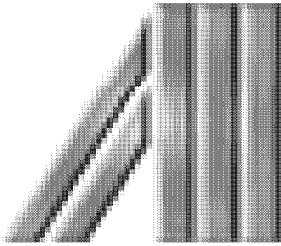
All ingredients are in compliance with TSCA.
SARA 302/304/311/312 extremely hazardous substances: No products were found.
SARA 302/304 emergency planning and notification: No products were found.
SARA 302/304/311/312 hazardous chemicals: No products were found.
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.
Clean water act (CWA) 307: No products were found.
Clean water act (CWA) 311: No products were found.
Clean air act (CAA) 112 accidental release prevention: No products were found.
Clean air act (CAA) 112 regulated flammable substances: No products were found.
Clean air act (CAA) 112 regulated toxic substances: No products were found.

International
Regulations:

Regulatory Information Available Upon Request
International Lists: No products were found.

State Regulations:

No product were found.
California prop. 65: No products were found



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Section 16. Other Information

Label Requirements: Combustible liquid.
Rapid polymerization occurs upon contact with water or alkaline substances. Skin inflammation or burns may occur upon contact during this polymerization.
Will bond skin.
May cause mucous membrane and respiratory tract damage.
Use with adequate ventilation.

Hazardous Material Information System (U.S.A.)

Health	2
Fire Hazard	2
Reactivity	2
Personal Protection	C

National Fire Protection Association (U.S.A.)

Health	2
Fire Hazard	2
Reactivity	2