

SECTION 4 — FIRST AID MEASURES

- INHALATION:** Move to fresh air. If symptoms persist, get medical attention.
- 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 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.

NOTES TO PHYSICIAN: Surgery is not necessary to separate accidentally bonded tissues. Experience 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.

SECTION 5 — FIRE-FIGHTING MEASURES

- FLASH POINT:** 80 - 93.4°C (176°F - 200.12°F) Tagliabue Closed Cup
- AUTO-IGNITION TEMPERATURE:** 485°C (905°F)
- FLAMMABLE/EXPLOSIVE LIMITS** LOWER: N/D UPPER: N/D
- EXTINGUISHING MEDIA:** Foam. Carbon Dioxide. Dry powder.
- SPECIAL FIRE-FIGHTING 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.
- HAZARDOUS COMBUSTION PRODUCTS:** Trace amounts of toxic and/or irritating fumes may be released and the use of breathing apparatus is recommended.

SECTION 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 waste.

SECTION 7 — HANDLING AND STORAGE

- HANDLING:** Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after 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.
- STORAGE:** Keep in a cool, well-ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready to use.

SECTION 8 — EXPOSURE CONTROL / 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 COMPONENTS

	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
ETHYL 2-CYANOACRYLATE	0.2 PPM TWA None	None	None	
TREATED FUMED SILICA	10 mg/m ³ TWA Inhalable Dust 3 mg/m ³ TWA Respirable Fraction	15 mg/m ³ TWA Total Dust 5 mg/m ³ TWA Respirable Fraction	None	None

SECTION 9 — PHYSICAL / CHEMICAL PROPERTIES

ENGINEERING CONTROLS: Use positive down-draft exhaust ventilation if general ventilation is insufficient 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.

SKIN PROTECTION: Use nitrile gloves and aprons as necessary to prevent contact. Do not use PVC, nylon, or cotton.

SECTION 10 — STABILITY AND REACTIVITY

PHYSICAL STATE: Gel

ODOR: Irritating

pH: Not applicable

BOILING POINT/RANGE: > 300°F (> 148.9°C) none

SPECIFIC GRAVITY: 1.05

FLASH POINT: 80 - 93.4°C (176°F - 200.12°F) Tagliabue Closed Cup

AUTO-IGNITION TEMPERATURE: 485 °C (905°F)

EVAPORATION RATE: Not available

PARTITION COEFFICIENT (N-OCTANOL/WATER): Not available

COLOR: Clear

ODOR THRESHOLD: 1 - 2 ppm

VAPOR PRESSURE: < 0.2 mm hg

MELTING POINT/ RANGE: N/D

VAPOR DENSITY: 3 Approximately

FLAMMABLE/EXPLOSIVE LIMITS

LOWER: Not available

UPPER: Not available

SOLUBILITY IN WATER: Polymerizes in presence of water.

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

SECTION 11 — TOXICOLOGICAL INFORMATION

STABILITY: Stable under recommended storage conditions.

HAZARDOUS REACTIONS: Rapid exothermic polymerization will occur in the presence of water, amines, alkalis, and alcohols.

HAZARDOUS DECOMPOSITION PRODUCTS: None.

INCOMPATIBLE MATERIALS: Water, amines, alkalis, and alcohols.

CONDITIONS TO AVOID: Spontaneous polymerization.

ACUTE ORAL PRODUCT TOXICITY: LD₅₀ (rat) > 5,000 mg/kg (Estimated)

ACUTE DERMAL PRODUCT TOXICITY: LD₅₀ (rabbit) > 2,000 mg/kg (Estimated)

HAZARDOUS COMPONENTS**NTP CARCINOGEN****IARC CARCINOGEN****OSHA CARCINOGEN
(Specifically Regulated)**

ETHYL 2-CYANOACRYLATE

No

No

No

TREATED FUMED SILICA

No

No

No

HAZARDOUS COMPONENTS**HEALTH EFFECTS/TARGET ORGANS**

ETHYL 2-CYANOACRYLATE

Irritant, Allergen, Respiratory

TREATED FUMED SILICA

Irritant

SECTION 12 — ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Not available.

SECTION 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.

SECTION 14 — TRANSPORTATION INFORMATION**U.S. DEPARTMENT OF TRANSPORTATION GROUND (49 CFR)**

PROPER SHIPPING NAME: COMBUSTIBLE LIQUID, NOS (CYANOACRYLATE ESTER)

HAZARD CLASS OR DIVISION: COMBUSTIBLE LIQUID

IDENTIFICATION NUMBER: NA 1993

PACKING GROUP: III

EXCEPTIONS: UNRESTRICTED, (NOT MORE THAN 450 LITERS)

INTERNATIONAL AIR TRANSPORTATION (ICAO/IATA)

PROPER SHIPPING NAME: AVIATION REGULATED LIQUID, NOS (CYANOACRYLATE ESTER)

HAZARD CLASS OR DIVISION: 9

IDENTIFICATION NUMBER: UN 3334

PACKING GROUP: None.

EXCEPTIONS: Primary packs containing less than 500 ml are unregulated by this mode of transport and may be shipped unrestricted.

WATER TRANSPORTATION (IMO/IMDG)

PROPER SHIPPING NAME: Not Regulated

HAZARD CLASS OR DIVISION: None

IDENTIFICATION NUMBER: None

PACKING GROUP: None

SECTION 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 minimus.

CERCLA/SARA SECTION 302 EHS: None above reporting de minimus.

CERCLA/SARA SECTION 311/312: Immediate Health, Delayed Health, Fire, Reactive.

CERCLA/SARA 313: None above reporting de minimus.

CALIFORNIA PROPOSITION 65: No California Proposition 65 listed chemicals are known to be present.

CANADA REGULATORY INFORMATION

CEPA DSL/NDL STATUS: Contains one or more components listed on the Non-Domestic Substances List. All other components are listed on or are exempt from listing on the Domestic Substance List. Components listed on the NDSL must be tracked by all Canadian Importers of Record as required by Environment Canada. They may be imported into Canada in limited quantities. Please contact Regulatory Affairs for additional details.

WHMIS HAZARD CLASS: B.3, D.2.B

SECTION 16 — OTHER INFORMATION

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