



MATERIAL SAFETY DATA SHEET

Issue date : 30 July 2012

1. Chemical Product and Company Identification

Product : Ethyl Cyanoacrylate Adhesive **Region :** Hong Kong
Type : FV100 **Contact Information :**
Company Address : **Telephone :** (852) 2751 8880
 Room 1009, 10/F., International Plaza, 20 Sheung Yuet Road, Kowloon Bay, Kowloon, Hong Kong. **Emergency Telephone :** (852) 2751 8880

2. Composition / Information on Ingredients

Hazardous Components	%	ACGIHTLV	OSHA PEL	OTHER
Ethyl Cyanoacrylate 7085-85-0	80 -100	0.2 ppm TWA	None	None

3. Hazards Identification

Emergency Overview

HMIS:

Physical State : Liquid	HEALTH : 2
Color : Clear Colorless	FLAMMABILITY : 2
Odor : Sharp, Irritating	PHYSICAL HAZARD : 1
WARNING : MAY CAUSE EYE AND RESPIRATORY IRRITATION. BONDS SKIN IN SECONDS.	Personal Protection : See Section 8

Potential Health Effects

Inhalation :	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. Allergic reactions are possible. 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.
Eye Contact :	Irritating to eyes. Causes excessive tearing. Eyelids may bond.
Ingestion :	Not expected to be harmful by ingestion. Rapidly polymerizes (solidifies) and bonds in mouth. It is almost impossible to swallow.
Existing conditions aggravated by exposure:	Skin, eye, and respiratory disorders.
GHS Classification	Flammable liquids (Category 4) Skin irritation (Category 2) Eye irritation (Category 2A) Specific target organ toxicity – single exposure (Category 3)

GHS Label elements, including precautionary statements



Pictogram	:	
Signal word	:	Warning
Hazard statement(s)	:	
H227	:	Combustible liquid
H315	:	Causes skin irritation
H319	:	Causes serious eye irritation
H335	:	May cause respiratory irritation



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Precautionary statement(s) :
P261 : Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P305+ P351+ P338 : IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses. If present and easy to do. Continue rinsing.

4. First Aid Measures

Inhalation : Remove to fresh air. Prolonged or repeated elevated exposure may cause allergic reactions with asthma-like symptoms in sensitive individuals.

Skin contact : Do not pull bonded skin apart. Soak in warm soapy water. Gently peel apart using a dull 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 : Peel or roll skin apart. Adhesive becomes solid in contact with saliva and may adhere to inside of mouth. Saliva will lift adhesive in 1 – 2 days. Avoid swallowing solid adhesive after detachment. Not a toxic product.

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.

5. Fire – Fighting Measures

Flash point : 80°C (176°F) Tagliabue closed cup

Flammable / Explosive limits - lower % : Not determined

Flammable / Explosive limits - upper % : Not determined

Extinguishing media : Dry powder. Foam. Water spray. Carbon dioxide.

Special fire fighting procedures : Fire fighters should wear positive pressure self – contained breathing apparatus (SCBA).

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.

6. Accidental Release Measures

Environmental precautions : Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

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.

7. Handling and Storage

Handling : Avoid contact with eyes, skin and clothing. Avoid breathing vapor and mist. Keep container closed when not in use.

Storage : Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use. Recommended storage temperature: 2-8°C



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8. Exposure Controls / Personal Protection

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). Observe OSHA regulations for respiratory use (29 CFR 1910.134).
Skin protection :	Use nitrile gloves and aprons as necessary to prevent contact. Do not use PVC, nylon or cotton.
Eye / Face protection :	Chemical splash goggles or safety glasses with side shields.

9. Physical and Chemical Properties

Physical state :	Liquid
Color :	Clear Colorless
Odor :	Sharp, Irritating
Odor Threshold :	1 -2 ppm
Vapor pressure :	Less than 0.2 mm Hg at 25°C (77°F)
pH :	Not applicable
Boiling point / range :	Greater than 149°C (300°F)
Melting point / range :	Not determined
Specific gravity :	1.05 at 20°C
Vapor density :	Approximately 3
Evaporation rate :	Not available
Solubility in water :	Polymerizes in presence of water
Partition coefficient (n – octanol / water) :	Not determined
VOC content :	Less than 2% ; 20g /L (California SCAQMD Method 316B) (estimated)

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.
Hazardous decomposition products :	None
Incompatibility :	Polymerized by water, alcohol, amines, alkaline materials and direct UV.
Conditions to avoid :	Avoid temperature above 80°C (176°F), moisture and alkaline.

11. Toxicological Information

Product toxicity data :	Acute oral LD50 >5000mg /kg (rat) (estimated). Acute dermal LD50 >2000 mg /kg (rabbit) (estimated).
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Carcinogen Status

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA
Ethyl Cyanoacrylate 7085-85-0	No	No	No

Literature Referenced Target Organ & Other Health Effects

Health Effects Hazardous	Health Effects / Target Organs
Ethyl Cyanoacrylate 7085-85-0	Allergen, Irritant, Respiratory



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12. Ecological Information

Ecological information : Not Known

13. Disposal Considerations

Information provided is for unused product only.

Recommended method of disposal : Dispose of in accordance with Federal, State and local regulations.

EPA hazardous waste number : Not a RCRA hazardous waste.

14. Transport Information

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

Proper shipping name : Combustible liquids, n.o.s. (Cyanacrylate ester)

Hazard class or division : Combustible liquid

Identification number : None

Packing group : None

Exceptions : None

Marine pollutant : None

International Air Transportation (ICAO / IATA) :

Proper shipping name : Aviation regulated liquids, n.o.s. (Cyanacrylate ester)

Hazard class or division : Unrestricted

Identification number : None

Packing group : None

Exceptions : None

Water Transportation (IMO / IMDG) :

Proper shipping name : Not regulated

Hazard class or division : None

Identification number : None

Packing group : None

Marine pollutant : None

15. Regulatory Information

United State Regulatory Information

TSCA 8 (b) Inventory State : All ingredients in this mixture are in compliance with TSCA.

TSCA 12 (b) Export Notification : None.

CERCLA / SARA Section 302 EHS : None.

CERCLA / SARA Section 311 / 312 : Immediate Health Hazard, Delayed Health Hazard, Fire, Reactive

CERCLA / SARA Section 313 : None

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

Canada Regulatory Information

CEPA DSL / NDSL State : All components are listed on or are exempt from listing on the

Domestic Substances List.

WHMIS hazard class : B.3, D.2.B

European Community

EEC Label symbol and classification :



"Xi" -Irritant