



## MATERIAL SAFETY DATA SHEET

### PRODUCT AND COMPANY IDENTIFICATION

Product Name: Love Bond

Synonym(s): None

Product Code: None

General Use: Adhesives

### HAZARDS IDENTIFICATION

GHS Classification

Flammable Liquid Category

4 Pyrophoric Liquids Not classified

Corrosive To Metals

Not classified

Acute Toxicity (Oral)

Not classified

Acute Toxicity (Dermal)

Not classified

Skin Corrosion/Irritation Category 2

Eye Irritation Category

2B

Respiratory Sensitizer Category

1 Germ Cell Mutagenicity 1B Carcinogenicity

2 Reproductive Toxicity

1B Target Organ Systemic Toxicity

3 (Respiratory Irritation)

(Single Exposure)

GHS Label Elements

GHS Symbol Exclamation Mark, Health Hazard

GHS Signal Word Danger

Hazard Statements Combustible Liquid.

Causes skin irritation.

Causes eye irritation.

May cause an allergic skin reaction.

May cause genetic defects

Suspected of causing cancer

May damage fertility or the unborn child

May cause respiratory irritation.



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## Emergency Overview:

Vapor is irritating to eyes, respiratory system, and skin. (R36/37/38)

## Potential Health Effects:

May cause sensitization by inhalation. Narcotic effects, headache, dizziness, vomiting.

Skin: dryness Eye: irritation

Potential Environmental Effects: Not available.

Signs And Symptoms Of Exposure: Vapor is irritating to eyes and mucous membranes above TLV.

Prolonged and repeated overexposure to vapors may produce symptoms of non-allergic asthma in sensitive individuals.

Existing Conditions Aggravated By Exposure: None known

## COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	wt%	CAS Registry No.	Chemical Formula
Ethyl cyanoacrylate	80~89	7086-86-0	CH <sub>2</sub> C(CN)COOC <sub>2</sub> H <sub>5</sub>
PMMA	9.9	secret	secret
Hydroquinone	0.1	123-31-9	C <sub>6</sub> H <sub>4</sub> (OH) <sub>2</sub>

## Inventory Status: Ethyl cyanoacrylate

TSCA	Listed
EINECS No.	2303915
RTECS No.	UD3330050
ICSC No.	1358
EC No.	607-236-00-9

## FIRST AID MEASURES

Ingestion: Ingestion is not likely. See supplemental page for emergency procedures.

Inhalation: Don't breathe gas/fumes/vapor/spray (appropriate wording to be specified by the manufacturer).

(S23)Evacuate from further exposure. If unconsciousness occurs, seek immediate medical assistance and call a physician.

If the breath has stopped, have artificial respiration.

If breathing difficulty occurs, have oxygen inhalation

Skin contact: Remove contaminated clothing.

Wash contact areas with soap and much water.

Eye contact: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. (S26)

## FIRE FIGHTING MEASURES

Flash Point: above 75 °C(167. F) Cleveland open cup

Autoignition temperature: 485 °C(905. F)

Explosive Limits:(%by volume in air)Lower: Not available (%by volume in air) Upper: Not available

Recommended Extinguishing agents: Carbon dioxide, foam, dry chemical

Special firefighting procedures: Not available

Hazardous products formed by fire or thermal decomposition: Irritating organic fragments.

Unusual fire or explosion hazards: None



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### ACCIDENTAL RELEASE MEASURES

Evacuate non-essential personnel. Shut off all sources of ignition; No fires, smoking or flames in the area. Ventilate area after material pick up is completed. For small spills: Absorb spill with inert material (dry cloth, dry sand), then place in a chemical waste container using non-sparking tools. Flush residual spill (area) with plenty of water. For large spills: Dike for later disposal. Wash with plenty of water.

### HANDLING AND STORAGE

#### Handling:

Keep away from sources of ignition and heat. No smoking or flames in working area. Take precautionary measures against static discharges. Avoid contact with skin and eyes. (S24/25) Wear proper protective equipment. Use only in well ventilated areas. Use exhaust ventilation to keep air concentration below exposure limit. Keep container tightly closed when not in use. Install emergency showers and eyewash facility in working area. Storage: Keep away from all possible source of ignition. Store in a cool, dry, well ventilated location. Keep container tightly closed. Keep away from combustible materials, heat, steam pipe or sunlight. Keep away from oxidizing materials. Other Precautions: Wash hands, face and gargle after work. Practice good personal hygiene after using this material, especially before eating, drinking, smoking or using the restroom. Keep out of reach of children.

### EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory protection (Specify type): Chemical cartridge respirator with organic vapor. Ventilation Local exhausts Should be used to control vapors in work area. Mechanical Should use a breathing mask. Protective gloves: Polyethylene gloves, No rubber. Eye protection Safety glasses, face shield. Skin protection: Other protective clothing or equipment impervious clothing, apron, and boots.

Barrier creams etc

### PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Black liquid Odor: Sharp, irritating. Boiling point: above 190 °C(374. F) Melting point: N/A Specific gravity (H<sub>2</sub>O =1): 0.9~1.1 Vapor pressure (at25°C): 1Pa Vapor density (Air =1): 4.5 Evaporation rate (Butyl acetate =1): N/A Solubility in water: Insoluble (polymerized by water)

### STABILITY AND REACTIVITY

Condition to avoid: High humidity, high temperature or direct sunlight. Stability: Stable (cool and dry area.). Materials to avoid: Polymerized by contact with water, alcohols, amines, alkalies. Hazardous decomposition or byproducts: CO<sub>2</sub>, oxides and nitrogen and unknown hydrocarbons. 11



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### STABILITY AND REACTIVITY

Toxicity: Skin contact may cause burns. Bond skin rapidly and strongly. Skin and eye irritant. Ethyl cyanoacrylate Oral LD50 : above 5000 mg/kg in rat. (Acute) Hydroquinone Oral LD50 : 302 mg/kg in rat. (Acute) Routes of entry: Inhalation (Yes), skin (Yes), Ingestion (Yes) Ingredients which have exposure limits ACGIH(TLV) OSHA(PEL) OTHER Ethyl cyanoacrylate 0.2 ppm TWA None None Hydroquinone 2 mg/m3 TWA 2 mg/m3 TWA 2 mg/m3 TWA 4 mg/m3 STEL Target Organ And Other Health Effects Literature Referenced Carcinogen Ingredients Target Organ And Other Health Effects NTP IARC OSHA Ethyl cyanoacrylate ALG IRR RES No No No Hydroquinone AC3 BLO BNM CNS EYE IMM IRR LIV MUT No N/A No Abbreviations: N/A Not applicable AC3 ACGIH animal carcinogen ALG Allergen BLO Blood BNM Bonen marrow CNS Central nervous system EYE Eyes IMM Immune system IRR Irritant LIV Liver MUT Mutagen RES Respiratory

### ECOLOGICAL INFORMATION

Not data available

### DISPOSAL INFORMATION

Waste disposal method: Don't pour drain. Follow domestic and local environmental regulations. Precautions to be taken in handling and storing: Avoid unnecessary exposure to air and moisture. Don't store above 25°C and in direct sunlight. Keep container lids tightly closed Other Precautions: Avoid contact with skin and eyes. Protect eyes, skin and clothing from contact with liquid product. Wear recommended equipment.

### TRANSPORT INFORMATION

U.S. Department of Transportation Ground Transport (49 CFR 172) Proper shipping name: Unrestricted (Not more than 450 liters.) Combustible liquids n.o.s.(Cyanoacrylate ester) (More than 450 liters) Hazard class or division: Unrestricted (Not more than 450 liters.) Combustible liquids. (More than 450 liters) Identification number: None (Not more than 450 liters.) NA1993 (More than 450 liters) Marine pollutant: None. International Air Transportation (ICA/IATA) Proper shipping name: Unrestricted Class or division: Unrestricted UN or ID number: None Water Transportation (IMO/IMDG) Proper shipping name: Unrestricted Hazard class or division: None Identification number: None Marine pollutant: None 15

### REGULATORY INFORMATION

CA Proposition 65: No California proposition 65 chemicals are known to be present. TSCA 8(b) Inventory Status: All components are listed or are exempt from listing on Toxic Substances Control Act Inventory. EINECS All components are listed on EINECS 16



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### OTHER INFORMATION

Estimated NFPA(R) Code: Health Hazard: 2 Fire Hazard: 2  
Reactivity Hazard: 1 Specific Hazard: Does not apply Estimated HMIS(R) Code:  
Health Hazard: 2  
Flammability Hazard: 2  
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