

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **GLUE TUBE**
PRODUCT ID: **CGLU003**

Manufacturer's Name: **CALI CHEM, Inc.,**
Address: **14271 Corporate Dr. Suite B**
City, State, Zip code: **Garden Grove, CA 92843**
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2. HAZARDS IDENTIFICATION

IMMEDIATE CONCERNS: Combustible. Causes eye irritation. May cause sensitization. May cause respiratory tract irritation. Rapid polymerization occurs upon contact with water or alkaline substances. As a result, heat is generated. Skin inflammation or burns may occur upon contact during this polymerization.

POTENTIAL HEALTH EFFECTS

EYES: Causes eye irritation.

SKIN: Bonds skin instantly. May cause sensitization.

INGESTION: Not a likely route of entry. Substance may be harmful if swallowed.

INHALATION: May cause irritation to the nose, throat, and respiratory tract.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

ACUTE TOXICITY: Symptoms of exposure include burning sensation, coughing, wheezing, laryngitis, stomach or intestinal upset, and/or respiratory tract irritation.

TARGET ORGAN STATEMENT: Eyes.

SENSITIZATION: May cause allergic skin reaction.

3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Wt.%</u>	<u>CAS</u>
Ethyl-2-cyanoacrylate	90 - 95	7085-85-0
Hydroquinone	< 1	123-31-9

4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Do not attempt to pull apart bonded eyelid. Seek medical attention.

SKIN: Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

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. Contact a physician.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. If signs or symptoms persist, seek medical attention.

NOTES TO PHYSICIAN: Cured adhesive does not pose a health risk.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: 85°C (185°F) Closed Cup

GENERAL HAZARD: Combustible liquid and vapor.

EXTINGUISHING MEDIA: Use dry chemical powder, water spray, or foam. Do not use water jet.

HAZARDOUS COMBUSTION PRODUCTS: May emit toxic fumes under fire conditions.

FIRE FIGHTING PROCEDURES: As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Absorb with an inert material and place in an appropriate waste disposal container.

LARGE SPILL: Extinguish all sources of ignition. Stop spill or leak at source. Dike if necessary. Absorb with an inert material and place in an appropriate waste disposal container.

RELEASE NOTES: Keep spilled material from entering storm drains, sewers, or other environmental mediums.

COMMENTS: Disposal of clean-up materials may be governmentally regulated. Observe all applicable local, state, and federal waste management regulations.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Avoid handling or clean-up of cyanoacrylate adhesive with cellulose fibers, such as cloth gloves, rags, paper towels, or clothing. A reaction containing cellulose fibers can cause smoke and fumes.

HANDLING: To avoid fire, minimize ignition sources. Avoid contact with eyes, skin, and clothing. In case of insufficient ventilation, wear suitable respiratory equipment. May react in presence of moisture. May react or be incompatible with alkalies. Wash thoroughly after handling.

STORAGE: Contains moisture sensitive material. Store in a dry, cool, well-ventilated area. Keep away from sources of heat and ignition. Keep container tightly closed when not in use.

COMMENTS: Rapid polymerization occurs upon contact with water or alkaline substances. As a result, heat is generated. Skin inflammation or burns may occur upon contact during this polymerization.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)

Chemical Name		OSHA PEL		ACGIH TLV	
		ppm	mg/m3	ppm	mg/m3
Ethyl-2-cyanoacrylate	TWA	NL	NL	0.2	NL
Hydroquinone	TWA	NL	2	NL	2

OSHA TABLE COMMENTS:

1*. C = Ceiling

Toluene: C-500 ppm; 10 minute peak per 8-hour shift.

ENGINEERING CONTROLS: Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Safety glasses. Wear splash goggles if the potential for splashing or spraying exist.

SKIN: Gloves (impervious).

RESPIRATORY: In case of insufficient ventilation, wear suitable respiratory equipment.

PROTECTIVE CLOTHING: Chemically impervious clothing should be worn if potential for skin contact.

WORK HYGIENIC PRACTICES: Wash hands before eating, smoking, or using restroom. Food or beverages should not be consumed anywhere this product is handled or stored. Wash thoroughly after handling.

OTHER USE PRECAUTIONS: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

ODOR: Acrid.

COLOR: Clear.

FLASHPOINT AND METHOD: 85°C (185°F) Closed Cup

SPECIFIC GRAVITY: 1.050

VISCOSITY #1: 100 mPa. s

10. STABILITY AND REACTIVITY

HAZARDOUS POLYMERIZATION: Yes

STABILITY: Water will cause polymerization.

POLYMERIZATION: Yes, due to heat generated during polymerization.

CONDITIONS TO AVOID: Can react with light or water.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon oxides. Nitrogen oxides. Aldehydes. Methyl methacrylate.

INCOMPATIBLE MATERIALS: Reactive with alkalis, oxidizing agents, reducing agents, amines, alcohols, and water.

11. TOXICOLOGICAL INFORMATION

ACUTE

<u>Chemical Name</u>	<u>ORAL LD50(rat)</u>	<u>DERMAL LD50 (rabbit)</u>	<u>INHALATION LC50 (rat)</u>
Ethyl-2-cyanoacrylate	> 5000 mg/kg	> 2000 mg/kg	
Hydroquinone	302 mg/kg		
Toluene	636 mg/kg		49000 mg/kg

CARCINOGENICITY

<u>Chemical Name</u>	<u>IARC Status</u>	<u>Other</u>
Hydroquinone	3	ACGIH: A3
Toluene	3	ACGIH: A4

NTP: Evidence of carcinogenic activity (NTP).

Notes: Hydroquinone- Studies conducted on laboratory animals found this substance to be tumorigenic, carcinogenic, and neoplastic by RTECS criteria.

IRRITATION: Continuous high volume usage can irritate mucous membranes and the upper respiratory tract.

SENSITIZATION: Product may cause skin irritation or sensitization.

12. ECOLOGICAL INFORMATION

COMMENTS: Not Available

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Waste must be disposed of in accordance with federal, state, and local environmental control regulations. Consult your licensed waste contractor for detailed recommendations.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Combustible Liquid, N.O.S. (contains ethyl 2-cyanoacrylate)

PRIMARY HAZARD CLASS/DIVISION: Combustible liquid.

UN/NA NUMBER: NA1993

PACKING GROUP: III

AIR (ICAO/IATA)

SHIPPING NAME: Aviation regulated liquid, N.O.S. (contains ethyl 2-cyanoacrylate)

UN/NA NUMBER: UN3334

PRIMARY HAZARD CLASS/DIVISION: 9

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

FIRE: Yes **REACTIVITY:** Yes **ACUTE:** Yes **CHRONIC:** Yes

313 REPORTABLE INGREDIENTS: No products were found above de minimis levels.

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

Chemical Name

Wt.%

CERCLA RQ

Hydroquinone

< 1

100 lbs.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA STATUS: All ingredients in this mixture are in compliance with TSCA.

STATES WITH SPECIAL REQUIREMENTS

Chemical Name **Requirements**

Hydroquinone

This product contains a component or components listed on the Massachusetts Right to Know list of hazardous substances.

This product contains a component or components listed on the Michigan Critical Materials list.

This product contains a component or components listed on the New Jersey Right to Know list of hazardous chemicals.

This product contains a component or components listed on the Pennsylvania Right to Know list of hazardous substances.

16. OTHER INFORMATION

HMIS RATING * 2

FLAMMABILITY 2

PHYSICAL HAZARD 2

PERSONAL PROTECTION:

MANUFACTURER DISCLAIMER: To the best of our knowledge, the information contained herein is

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for the accuracy or completeness of the information contained herein. Final determination of suitability of any

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that exist.