

LOCTITE ULTRA GEL SUPER GLUE 4GR

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: LOCTITE ULTRA GEL SUPER GLUE 4GR
Item No.: 1109181
Product Type: Cyanoacrylate ester

2. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients	CAS No.	%
Ethyl cyanoacrylate	7085-85-0	60-100
Treated fumed silica	67762-90-7	1-5

Ingredients which have exposure limits

Exposure Limits (TWA) Ingredients	ACGIH (TLV)	OSHA (PEL)	OTHER
Ethyl cyanoacrylate	0.2 ppm TWA	None	None
Treated fumed silica	10mg/m3 inhalable fraction, 3mg/m3 respirable fraction, TWA	5mg/m3 respirable dust 15mg/m3 total dust	

3. HAZARDS IDENTIFICATION

Emergency Overview: Bonds skin in seconds. May cause eye, skin, and respiratory irritation. Combustible liquid and vapor.

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 to skin in seconds. May cause skin irritation. Cyanoacrylates have been reported to cause allergic reaction but due to rapid polymerization at the skin surface, an allergic response is rare. 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. Estimated acute oral LD50 more than 5000mg/kg (rat). Estimated acute dermal LD 50 more than 2000 mg/kg (rabbit).

Primary Routes of Entry: Skin, inhalation, eyes

Existing Conditions

Aggravated by Exposure: Eye, skin, and respiratory disorders.

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3. HAZARDS IDENTIFICATION

(continued)

Literature Referenced	Carcinogen			
Ingredients	Target Organ and Other Health Effects	NTP	IARC	OSHA
Ethyl cyanoacrylate	ALG IRR RES	NO	NO	NO
Treated fumed silica	IRR	NO	NO	NO

Abbreviations

N/A Not Applicable	AC3 ACGIH animal carcinogen.
ALG Allergen	BLO Blood
BNM Bone Marrow	CNS Central nervous system
EYE Eyes	IMM Immune system
IRR Irritant	LIV Liver
MUT Mutagen	RES Respiratory
SKI Skin	THY Thyroid

4. FIRST AID MEASURES

Ingestion: Ingestion is not likely. See supplemental page for emergency procedures.
Inhalation: Remove to fresh air. If symptoms persist, obtain medical attention.
Skin Contact: Soak in warm water. See supplemental page for emergency procedures.
Eye Contact: Immediately flush with plenty of water for at least 15 minutes. See supplemental page for emergency procedures.

5. FIRE FIGHTING MEASURES

Flash Point: 176 - 200°F Method: Tag Closed Cup
Autoignition temperature: 485°C (905°F)
Extinguishing media: Carbon dioxide, foam, dry powder
Special Firefighting Procedures: Wear positive pressure self-contained breathing apparatus (SCBA).
Hazardous combustion products formed: Trace amounts of toxic and/or irritating fumes may be released and the use of breathing apparatus is recommended.
Unusual Fire or Explosion Hazards: None
Explosive Limits:
(% by volume in air) Lower Not available
(% by volume in air) Upper Not available

MATERIAL SAFETY DATA SHEET

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6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case of spill or leak: Do not use cloths for mopping. Flood with water to polymerize and scrape off the floor. Cured material can be disposed of as non-hazardous waste.

Environmental precautions: Ventilate area. Prevent product from entering the drains.

7. HANDLING AND STORAGE

Storage: Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use. No special restrictions on storage with other products.

Handling: Avoid contact with skin, eyes and clothing. Avoid breathing vapor. 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.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes: Safety glasses with side shields or goggles.
Skin: Nitrile or polyethylene gloves and aprons.
Do not use PVC, nylon or cotton.
See supplemental page for additional information.
Ventilation: Positive down-draft exhaust ventilation should be provided to maintain vapor concentration below TLV
Respiratory Use NIOSH approved respirator if there is potential to exceed exposure limit(s).

See Section 2 for Exposure Limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear liquid
Odor: Sharp, irritating
Boiling Point: More than 300°F (149°C)
pH: Does not apply
Solubility in Water: Polymerizes in presence of water
Specific Gravity: 1.1 @ 20°C
VOC Content: Less than 2%; 20 g/L (California SCAQMD Method 316B, estimated)
Vapor Pressure: Less than 0.2 mm Hg

