

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Super Bonder(R) 495 General Purpose Inst Adh  
 Item No.: 49550  
 Product Type: Cyanoacrylate Ester

2. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredient	CAS No.	%
Ethyl cyanoacrylate	7085-85-0	95-100
Poly (methyl methacrylate)	9011-14-7	3-5
HYDROQUINONE	123-31-9	0.1-1

Ingredients which have exposure limits

Exposure Limits (TWA)	ACGIH (TLV)	OSHA (PEL)	OTHER
Ethyl cyanoacrylate	None	None	2 ppm TWA 9.1 mg/m3
HYDROQUINONE	2 µg/m3 TWA	2 µg/m3 TWA	2 mg/m3 TWA 4 mg/m3 STEL
Exposure Limits (STEL)	ACGIH (TLV)	OSHA (PEL)	
Ethyl cyanoacrylate	(4 ppm) (18 mg/m3)	(4 ppm) (16 mg/m3)	

3. HAZARD IDENTIFICATION

Toxicity: Skin contact may cause burns.  
 Burns skin rapidly and strongly.  
 Skin and eye irritant.  
 Estimated oral LD50 more than 5000mg/kg.  
 Estimated dermal LD 50 more than 2000 mg/kg.

Primary Routes of Entry: None known

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

Ingredient	Literature Referenced Target Organ and Other Health Effects	Carcinogen NTP IARC OSHA
Ethyl cyanoacrylate	ALG IRR RES	NO NO NO
Poly (methyl methacrylate)	IRR	NO N/A NO

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3. HAZARD IDENTIFICATION (continued)

HYDROQUINONE BLO BNM CNS EYE IMM IRR MUT SKI NO N/A NO

## Abbreviations

N/A Not Applicable	ALG Allergen
BLO Blood	BNM Bone Marrow
CNS Central nervous system	EYE Eyes
IMM Immune system	IRR Irritant
MUT Mutagen	RES Respiratory
SKI Skin	

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: Flush with water. See supplemental page for emergency procedures.

5. FIRE FIGHTING MEASURES

Flash Point: 150-200°F Method: Tag Closed Cup

Recommended Extinguishing Agents: Carbon dioxide, foam, dry chemical

Hazardous Products formed by Fire: Thermal Decomposition Irritating organic fragments.

Unusual Fire or Explosion Hazards: None

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

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case of spill or leak: Flood with water to polymerize. Soak up with an inert absorbent.

7. HANDLING AND STORAGE

Safe Storage: Store at or below 75°F  
(Contact Loctite Customer Service 1-800-243-4874 for shelf life information)

Handling: Avoid contact with skin and eyes. Avoid breathing

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7. HANDLING AND STORAGE

(continued)

vapors.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes: Safety glasses or goggles.  
Skin: Nitrile or polyethylene gloves and aprons.  
Do not use cotton.  
See supplemental page for additional information.  
Ventilation: Positive down-draft exhaust ventilation should be provide to maintain vapor concentration below TLV.

See Section 2 for Exposure Limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear liquid  
Odor: Sharp, irritating.  
Boiling Point: More than 300°F  
pH: Not Applicable  
Solubility in Water: Polymerized by water.  
Specific Gravity: 1.05 at 75°F  
Volatile Organic Compound (EPA Method 24) 94.7%; 994.35 g/l  
Vapor Pressure: Less than 0.2mm at 75°F  
Vapor Density: Approximately 3  
Evaporation Rate (Ether = 1) Not available

10. STABILITY AND REACTIVITY

Stability: Stable  
Hazardous polymerization: Will not occur  
Incompatibility: Polymerized by contact with water, alcohols, amines, alkalies.  
Hazardous decomposition Products (non-thermal): None

11. TOXICOLOGICAL INFORMATION

See Section 3.

12. ECOLOGICAL INFORMATION

No data available

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13. DISPOSAL CONSIDERATIONS

Recommended methods of disposal: Polymerize as above.  
Incinerate following EPA and local regulations.

EPA Hazardous Waste Number: NH - not a RCRA Hazardous Waste Material

14. TRANSPORT INFORMATION

DOT (49 CFR 172)  
Domestic Ground Transport  
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 liquid (More than 450 liters)

Identification Number: None (Not more than 450 liters);  
NA 1993 (More than 450 liters)

Marine Pollutant: None

IATA  
Proper Shipping Name: Unrestricted (Not more than one pint);  
Other regulated substances (More than one pint)

Class : Division: Unrestricted (Not more than one pint);  
Class 9 (More than one pint)

UN or ID Number: None (Not more than one pint)  
ID 8027 (More than one pint)

15. REGULATORY INFORMATION

CA Proposition 65: No Prop65 Chemicals known to be present.

16. OTHER INFORMATION

Estimated HFP(A)(R) Code:  
Health Hazard: 2  
Fire Hazard: 2  
Reactivity Hazard: 2  
Specific Hazard: Does not apply

Estimated HMIS(R) Code:  
Health Hazard: 2  
Flammability Hazard: 2  
Reactivity Hazards: 2  
Personal Protection: See Section 8.

NFPA is a registered trademark of the National Fire Protection Assn.  
HMIS is a registered trademark of the National Paint and Coatings Assn.

Prepared by: Stephen Repetto

LOCTITE CORPORATION

1001 TROUT BROOK CROSSING

ISSUED 11/19/96

ROCKY HILL, CT 06067-3910

12:23:00

EMERGENCY PHONE: (860) 571-5100

FAX: (860) 571-5465

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49550

16. OTHER INFORMATION

(continued)

Title:

Research Chemist, Environmental Health & Safety

Company:

Loctite Corp., 1001 Tr Br Cr, Rocky Hill CT 06067

(24hr.) Phone:

(860) 571-5100

Revision Date:

January 22, 1996

Revision: 0027

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Supplement

It is almost impossible to swallow cyanoacrylate. The adhesive solidifies and adheres in the mouth. Saliva will lift the adhesive in one half to two days. In case a lump forms in the mouth, position the patient to prevent ingestion of the lump when it detaches.

**BURNS**

Cyanoacrylates give off heat on solidification. In rare cases a large drop will increase in temperature enough to cause a burn. Burns should be treated normally after the lump of cyanoacrylate is released from the tissue as described above.

**SURGERY**

It should never be necessary to use such a drastic method to separate accidentally bonded skin.