

LOCTITE CORPORATION

1001 TROUT BROOK CROSSING  
 ROCKY HILL, CT 06067-3910  
 EMERGENCY PHONE: (860) 571-5100

ISSUED 8/31/98  
 14:01:40  
 FAX: (860) 571-5465

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Super Bonder(R) Super Glue  
 Item No.: 49411  
 Part No.: 49411  
 Product Type: Cyanoacrylate Ester Adhesive

2. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients	CAS No.	%
Ethyl cyanoacrylate	7085-85-0	95-100
Poly (methyl methacrylate)	9011-14-7	3-5
HYDROQUINONE	123-31-9	0.1-0.5

Ingredients which have exposure limits

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

3. HAZARDS IDENTIFICATION

**Toxicity:** Skin contact may cause burns. Bonds 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

Ingredients	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
HYDROQUINONE	AC3 BLO BNM CNS EYE IMM IRR MUT SKI	NO	N/A	NO

Abbreviations

N/A Not Applicable  
 ALG Allergen  
 BNM Bone Marrow  
 EYE Eyes  
 IRR Irritant  
 RES Respiratory

AC3 ACGIH animal carcinogen.  
 BLO Blood  
 CNS Central nervous system  
 IMM Immune system  
 MUT Mutagen  
 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.

LOCTITE CORPORATION

1001 TROUT BROOK CROSSING  
ROCKY HILL, CT 06067-3910  
EMERGENCY PHONE: (860) 571-5100ISSUED 8/31/98  
14:01:40  
FAX: (860) 571-5465MATERIAL SAFETY DATA SHEET

Page 2 of 4

Product Name: Super Bonder(R) Super Glue  
Item No.: 494114. FIRST AID MEASURES

(continued)

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 MEASURESFlash Point: 150-200°F Method: Tag Closed Cup  
Recommended Extinguishing Agents: Carbon dioxide, Foam, Dry Chemical  
Special Firefighting Procedures: Not available  
Hazardous Products formed by Fire or Thermal Decomp: Irritating organic fragments  
Unusual Fire or Explosion Hazards: NoneExplosive Limits:  
{% by volume in air} Lower Not Applicable  
{% by volume in air} Upper Not Applicable6. 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 STORAGESafe Storage: Store below 75 deg. F.  
(Contact Loctite Customer Service 1-800-243-4874 for shelf life information)  
Handling: Avoid contact with skin and eyes. Avoid breathing vapors.8. EXPOSURE CONTROLS, PERSONAL PROTECTIONEyes: Safety glasses or goggles mandatory.  
Skin: Nitrile or polyethylene gloves and aprons.  
Do not use cotton.  
Ventilation: See supplemental page for additional information.  
Positive down-draft exhaust ventilation should be provided to maintain vapor concentration below TLV.  
Respiratory: Not available  
See Section 2 for Exposure Limits.9. PHYSICAL AND CHEMICAL PROPERTIESAppearance: Clear liquid  
Odor: Sharp, irritating  
Boiling Point: More than 300°F  
pH: Not Applicable  
Solubility in Water: Polymerized  
Specific Gravity: 1.05 at 75°F  
Volatile Organic Compound (EPA Method 24) 94.0%; 987 g/l  
Vapor Pressure: Less than 0.2mm at 75°F  
Vapor Density: Approximately 3  
Evaporation Rate (Ether = 1) Not available10. STABILITY AND REACTIVITYStability: Stable  
Hazardous Polymerization: Will not occur  
Incompatibility: Polymerized by contact with water, alcohols, amines, alkalies.  
Conditions to Avoid: Not available  
Hazardous Decomposition Products (non-thermal): None

LOCTITE CORPORATION

1001 TROUT BROOK CROSSING  
ROCKY HILL, CT 06067-3910  
EMERGENCY PHONE: (860) 571-5100

ISSUED 8/31/98  
14:01:40  
FAX: (860) 571-5465

MATERIAL SAFETY DATA SHEET

Product Name: Super Bonder(R) Super Glue  
Item No.: 49411

11. TOXICOLOGICAL INFORMATION

See Section 3.

12. ECOLOGICAL INFORMATION

No data available

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. TRANSPORTATION 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 or 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 are known to be present.

16. 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  
Reactivity Hazards: 1  
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  
Title: Research Chemist, Environmental Health & Safety  
Company: Loctite Corp., 1001 Tr Br Cr, Rocky Hill CT 06067  
(24hr.) Phone: (860) 571-5100  
Revision Date: April 15, 1997  
Revision: 0026

LOCTITE CORPORATION

1001 TROUT BROOK CROSSING  
ROCKY HILL, CT 06067-3910  
EMERGENCY PHONE: (860) 571-5100ISSUED 8/31/98  
14:01:40  
FAX: (860) 571-5465MATERIAL SAFETY DATA SHEET

Page 4 of 4

Product Name: Super Bonder(R) Super Glue  
Item No.: 49411

Supplement

INFORMATION FOR FIRST AID AND CASUALTY ON TREATMENT FOR ADHESION OF  
HUMAN SKIN TO ITSELF IF CAUSED BY CYANOACRYLATE ADHESIVES

Cyanoacrylate adhesive is a very fast setting and strong adhesive. It bonds human tissue including skin in seconds. Experience has shown that accidents due to cyanoacrylates are handled best by passive, nonsurgical first aid. Treatment of specific types of accidents are given below.

**SKIN CONTACT**

Remove excess adhesive. Soak in warm, soapy water. The adhesive will come loose from the skin in several hours. Cured adhesive does not present a health hazard even when bonded to the skin.

Avoid contact with clothes, fabrics, rags, or tissue. Contact with these materials may cause polymerization. The polymerization of large amounts of adhesive will generate heat causing smoke, skin burns, and strong, irritating vapors. Wear nitrile or polyethylene gloves and apron when handling large amounts of adhesive.

**SKIN ADHESION**

First immerse the bonded surfaces in warm, soapy water. Peel or roll the surfaces apart with the aid of a blunt edge, e.g. a spatula or a teaspoon handle; then remove adhesive from the skin with soap and water. Do not try to pull surfaces apart with a direct opposing action.

**EYELID TO EYELID OR EYEBALL ADHESION**

In the event that eyelids are stuck together or bonded to the eyeball, wash thoroughly with warm water and apply a gauze patch. The eye will open without further action, typically in 1-4 days. There will be no residual damage. Do not try to open the eyes by manipulation.

**ADHESIVE ON THE EYEBALL**

Cyanoacrylate introduced into the eyes will attach itself to the eye protein and will disassociate from it over intermittent periods, generally covering several hours. This will cause periods of weeping until clearance is achieved. During the period of contamination, double vision may be experienced together with a lachrymatory effect, and it is important to understand the cause and realize that disassociation will normally occur within a matter of hours, even with gross contamination.

**MOUTH**

If lips are accidentally stuck together, apply lots of warm water to the lips and encourage maximum wetting and pressure from saliva inside the mouth. Peel or roll lips apart. Do not try to pull the lips with direct opposing action.

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.