

LOCTITE CORPORATION

01/22/99

ROCKY HILL, CONNECTICUT 06067
EMERGENCY PHONE: (860) 571-5100

MATERIAL SAFETY DATA SHEET

Page 01 of 07

Duro(R) Super Glue-5
80860

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Item No.: 80860
Part No.: SUP-5
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	0.2 ppm TWA	None	None
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)

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

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ROCKY HILL, CONNECTICUT 06067
EMERGENCY PHONE: (860) 571-5100

MATERIAL SAFETY DATA SHEET

Page 02 of 07

Item No.: 80860

3. HAZARDS IDENTIFICATION

(continued)

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

3430

Poly (methyl methacrylate)	IRR	NO	N/A	NO
HYDROQUINONE	AC3 BLO BNM CNS EYE IMM IRR MUT NO	NO	N/A	NO
	SKI			

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	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		
Special Firefighting Procedures:	Not available		
Hazardous Products formed by Fire or Thermal Decomp	Irritating organic fragments		
Unusual Fire or Explosion Hazards:	None		
Explosive Limits:			
(% by volume in air)Lower	Not Applicable		
(% by volume in air)Upper	Not Applicable		

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01/22/99

ROCKY HILL, CONNECTICUT 06067
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MATERIAL SAFETY DATA SHEET

Page 03 of 07

Item No.: 80860

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.
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7. HANDLING AND STORAGE

Safe 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 PROTECTION

Eyes:	Safety glasses or goggles mandatory.
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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 provided to maintain vapor concentration below TLV.
Respiratory: Not available
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
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 available

10. STABILITY AND REACTIVITY

Stability: 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

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01/22/99

ROCKY HILL, CONNECTICUT 06067
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MATERIAL SAFETY DATA SHEET

Page 04 of 07

Item No.: 80860

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);
 Aviation regulated liquid, n.o.s., (Cyanoacrylate Ester) (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)
 UN 3334 (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

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MATERIAL SAFETY DATA SHEET

Page 05 of 07

Item No.: 80860

16. OTHER INFORMATION

(continued)

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.

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LOCTITE CORPORATION

01/22/99

ROCKY HILL, CONNECTICUT 06067
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MATERIAL SAFETY DATA SHEET

Page 06 of 07

Item No.: 80860

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

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01/22/99

MATERIAL SAFETY DATA SHEET

Page 07 of 07

Item No.: 80860

Supplement

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.

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