

AVON, OH 44011
TELEPHONE: (440) 937-7000

MATERIAL SAFETY DATA SHEET

Loctite(R) Super Glue All Plastics IDH 685935

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Loctite(R) Super Glue All Plastics
IDH No.: 685935 ADHESIVE
Product Type: Cyanoacrylate ester

2. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients	CAS No.	%
Ethyl cyanoacrylate	7085-85-0	90-95

Ingredients which have exposure limits

Exposure Limits (TWA) Ingredients	ACGIH (TLV)	OSHA (PEL)	OTHER
Ethyl cyanoacrylate	0.2 ppm TWA	None	None

Exposure Limits (STEL) Ingredients	ACGIH (TLV)	OSHA (PEL)
Ethyl cyanoacrylate	0.2 ppm TWA	None

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. Exposure to vapors above the established limits may cause symptoms of non-allergic asthma.

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

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3. HAZARDS IDENTIFICATION

(continued)

Abbreviations

N/A Not Applicable	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: Flush with water. See supplemental page for emergency procedures.

5. FIRE FIGHTING MEASURES

Flash Point: 176 - 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 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.

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7. HANDLING AND STORAGE

Safe Storage: Store below 75 deg. F.
Handling: Avoid contact with skin and eyes. Avoid breathing vapor.

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 provided to maintain vapor concentration below TLV
Respiratory: Not available
See Section 2 for Exposure Limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: colorless liquid
Odor: Sharp, irritating
Boiling Point: More than 300°F
pH: Does not apply
Solubility in Water: Polymerized by water
Specific Gravity: 1.05
Volatile Organic Compound (EPA Method 24) <2%
Less than 20 g/l (California SCAQMD method 316B)
Vapor Pressure: Less than 0.2mm
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

11. TOXICOLOGICAL INFORMATION

See Section 3.

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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

U.S. Department of Transportation Ground (49 CFR):

Proper shipping name: Combustible liquids, n.o.s. (Cyanoacrylate ester)
Hazard class/division: Combustible liquid
Identification number: NA 1993
Packing group: None
Exceptions: (Not more than 450 Liters) Unrestricted
Marine pollutant: None

International Air Transportation (ICAO/IATA):

Proper shipping name: Aviation regulated liquids, n.o.s (Cyanoacrylate ester)
Greater than 500 ml
Hazard class/division: 9
Identification number: UN 3334
Packing group: None
Exceptions: (Not more than 500ml) Unrestricted

WaterTransportation (IMO/IMDG):

Proper shipping name: Unrestricted
Hazard class/division: None
Identification number: None
Packing group: None
Marine pollutant: None

15. REGULATORY INFORMATION

CA Proposition 65: No California Proposition 65 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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16. OTHER INFORMATION

(continued)

Estimated HMIS(R) Code:
Health Hazard: 2
Flammability Hazard: 2
Reactivity Hazards: 1
Personal Protection: See Section 8.

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

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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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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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MATERIAL SAFETY DATA SHEET

Loctite Super Glue All Plastics Activator
 ACTIVATOR IDH 685935

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Loctite Super Glue All Plastics Activator
 IDH No.: ACTIVATOR 685935 Part of Kit: 685935
 Product Type: Activator

2. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients	CAS No.	%
n-HEPTANE	142-82-5	95-100

The substituted amine is registered with the state of New Jersey as a trade secret: NJ TSRN 06-070-1067-5076P.

Ingredients which have exposure limits

Exposure Limits (TWA) Ingredients	ACGIH (TLV)	OSHA (PEL)	OTHER
n-HEPTANE	400 ppm TWA 1640 mg/M3	500 ppm TWA 1600 mg/M3	None
Exposure Limits (STEL) Ingredients	ACGIH (TLV)	OSHA (PEL)	
n-HEPTANE	500 ppm 2050 mg/M3	500 ppm 2000 mg/M3	

3. HAZARDS IDENTIFICATION

Toxicity: Severe eye irritant. Skin irritant. Inhalation irritates nose and throat. Ingestion may irritate digestive tract and cause nausea, vomiting, and diarrhea. Aspiration of material into the lungs can cause chemical pneumonitis, which can be fatal

Primary Routes of Entry: Heptane: Inhalation, ingestion, contact.

Signs and Symptoms of Exposure: Inhalation: Dizziness, anesthesia, unconsciousness, difficulty in breathing.
 Skin and eyes: Redness

Existing Conditions Aggravated by Exposure: Skin disorders, heart conditions, respiratory disorders.

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Product Name: Loctite Super Glue All Plastics Activator
IDH No.: ACTIVATOR 685935

7. HANDLING AND STORAGE

Safe Storage: Store between 40 and 80°F in a tightly closed container away from oxidizing materials and sources of ignition.

Handling: Keep away from flame. Avoid prolonged breathing of vapors. Avoid skin or eye contact.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes: Safety glasses or goggles.
Skin: Rubber or plastic gloves.
Ventilation: Adequate to avoid exceeding TLV.
Respiratory: Not available

See Section 2 for Exposure Limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear liquid
Odor: Aliphatic
Boiling Point: 205-210°F
pH: Does not apply
Solubility in Water: Immiscible
Specific Gravity: 0.684
Volatile Organic Compound
(EPA Method 24) Not available
Vapor Pressure: 35 mm at 68°F
Vapor Density: 3.45
Evaporation Rate
(Ether = 1) 2.7

10. STABILITY AND REACTIVITY

Stability: Stable
Hazardous Polymerization: Will not occur
Incompatibility: Strong oxidizers, strong acids or bases, selected amines, peroxides, acid chlorides, acid anhydrides alkali metals, ammonia.
Conditions to Avoid: Not available
Hazardous Decomposition
Products (non-thermal): None

11. TOXICOLOGICAL INFORMATION

See Section 3.

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12. ECOLOGICAL INFORMATION No data available

13. DISPOSAL CONSIDERATIONS

Recommended methods of disposal: Incinerate following EPA and local regulations.
EPA Hazardous Waste Number: D001 - Hazardous waste per 40CFR 261.21

14. TRANSPORTATION INFORMATION

U.S. Department of Transportation Ground (49 CFR):

Proper shipping name:
Hazard class or division:
Identification number:
Packing group:
Exceptions: Not regulated for transport by ALL modes

International Air Transportation (ICAO/IATA):

Proper shipping name:
Hazard class or division:
Identification number:
Packing group:
Exceptions: Not regulated for transport by ALL modes

WaterTransportation (IMO/IMDG):

Proper shipping name:
Hazard class or division:
Identification number:
Packing group:
Exceptions: Not regulated for transport by ALL modes
Marine pollutant:

15. REGULATORY INFORMATION

CA Proposition 65: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

16. OTHER INFORMATION

Estimated NFPA(R) Code:
Health Hazard: 1
Fire Hazard: 3
Reactivity Hazard: 0
Specific Hazard: Does not apply

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16. OTHER INFORMATION

(continued)

Estimated HMIS(R) Code:

Health Hazard: 1
Flammability Hazard: 3
Reactivity Hazards: 0
Personal Protection: See Section 8.

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Prepared by:

Company: Regulatory Affairs 8/08 Rev 5/09

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