

HENKEL CONSUMER ADHESIVES

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

MATERIAL SAFETY DATA SHEET

Page 01 of 07

Loctite(R) Plastix Advanced Plastic Bonder  
 01-82565

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Loctite(R) Plastix Advanced Plastic Bonder  
 Item No.: 01-82565  
 Product Type: Cyanoacrylate ester

2. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients	CAS No.	%
Ethyl cyanoacrylate	7085-85-0	90-95
Poly (methyl methacrylate)	9011-14-7	5-10
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. 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
Poly (methyl methacrylate)	IRR	NO N/A NO

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

## MATERIAL SAFETY DATA SHEET

Page 02 of 07

Product Name: Loctite(R) Plastix Advanced Plastic Bonder  
Item No.: 01-82565

## 3. HAZARDS IDENTIFICATION

(continued)

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

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## 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: 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 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.

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

## MATERIAL SAFETY DATA SHEET

Page 03 of 07

Product Name: Loctite(R) Plastix Advanced Plastic Bonder  
Item No.: 01-82565

## 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 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: Water white to straw colored 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) 68%; 714 grams per liter  
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.

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

## MATERIAL SAFETY DATA SHEET

Page 04 of 07

Product Name: Loctite(R) Plastix Advanced Plastic Bonder  
Item No.: 01-82565

## 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 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

Estimated HMIS(R) Code:  
Health Hazard: 2  
Flammability Hazard: 2

HENKEL CONSUMER ADHESIVES

04/04/02

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

MATERIAL SAFETY DATA SHEET

Page 05 of 07

Product Name: Loctite(R) Plastix Advanced Plastic Bonder  
Item No.: 01-82565

16. OTHER INFORMATION

(continued)

Reactivity Hazards: 1  
Personal Protection: See Section 8.

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

Prepared by:  
Company: Safety, Health and Regulatory Affairs - North America,  
Loctite Corp., 1001 Tr Br Cr, Rocky Hill CT 06067  
(24hr.) Phone: (860) 571-5100

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

## MATERIAL SAFETY DATA SHEET

Page 06 of 07

Product Name: Loctite(R) Plastix Advanced Plastic Bonder  
Item No.: 01-82565

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

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

MATERIAL SAFETY DATA SHEET

Page 07 of 07

Product Name: Loctite(R) Plastix Advanced Plastic Bonder  
Item No.: 01-82565

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.

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

MATERIAL SAFETY DATA SHEET

Plastix(TM) Surface Activator  
 ACTIVATOR 01-82565

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Plastix(TM) Surface Activator  
 Item No.: ACTIVATOR 01-82565 Part of Kit: 01-82565  
 Product Type: Activator

2. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients	CAS No.	%
n-HEPTANE	142-82-5	95-100
Substituted amine	Proprietary	0.1-1

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.



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

## MATERIAL SAFETY DATA SHEET

Page 03 of 05

Product Name: Plastix(TM) Surface Activator  
Item No.: ACTIVATOR 01-82565

## 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.  
(Contact Loctite Customer Service 1-800-243-4874 for shelf life information)  
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: 40 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.

AVON, OH 44011  
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## MATERIAL SAFETY DATA SHEET

Page 04 of 05

Product Name: Plastix(TM) Surface Activator  
Item No.: ACTIVATOR 01-82565

## 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

## DOT (49 CFR 172)

## Domestic Ground Transport

Proper Shipping Name: Consumer Commodity (Not more than one liter);  
Heptanes solution (More than one liter)  
Hazard Class or Division: ORM-D (Not more than one liter);  
Class 3, Packing Group II (More than one liter)  
Identification Number: None (Not more than one liter);  
UN 1206 (More than one liter)  
Marine Pollutant: None

## IATA

Proper Shipping Name: Heptanes Solution  
Class or Division: Class 3, Packing Group II  
UN or ID Number: UN 1206

## 15. REGULATORY INFORMATION

CA Proposition 65: No Prop65 chemicals are known to be present.

## 16. OTHER INFORMATION

## Estimated NFPA(R) Code:

Health Hazard: 1  
Fire Hazard: 3  
Reactivity Hazard: 0  
Specific Hazard: Does not apply

## Estimated HMIS(R) Code:

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

NFPA is a registered trademark of the National Fire Protection Assn.  
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HENKEL CONSUMER ADHESIVES

02/05/02

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

MATERIAL SAFETY DATA SHEET

Page 05 of 05

Product Name: Plastix(TM) Surface Activator  
Item No.: ACTIVATOR 01-82565

16. OTHER INFORMATION

(continued)

Prepared by:  
Company: Safety, Health and Regulatory Affairs - North America,  
Loctite Corp., 1001 Tr Br Cr, Rocky Hill CT 06067  
(24hr.) Phone: (860) 571-5100