

9-1-05

HENKEL CONSUMER ADHESIVES

08/08/00

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

MATERIAL SAFETY DATA SHEET

Page 01 of 05

HARDENER 01-81502  
HARDENER 01-81502

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Item No.: HARDENER 01-81502  
Part of Kit: 01-81502  
Product Type: Epoxy hardener

2. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients	CAS No.	%
Polymercaptan	Proprietary	80-85
Substituted aminophenol	90-72-2	5-10
Nonylphenol	25154-52-3	3-5
Heptakis (dipropyleneglycol) triphosphite	116265-68-0	1-3

Ingredients which have exposure limits

Exposure Limits (TWA) Ingredients	ACGIH (TLV)	OSHA (PEL)	OTHER
Exposure Limits (STEL) Ingredients	ACGIH (TLV)	OSHA (PEL)	

3. HAZARDS IDENTIFICATION

Toxicity: Skin and eye irritant. Possible respiratory irritant. The aminophenol can cause severe irritation and may be corrosive on prolonged contact. It may be a sensitizer. It can also be corrosive to eye tissue leading to permanent injury including blindness. It may irritate the respiratory tract and may cause delayed lung damage upon overexposure to fumes or vapors. It can also cause fatigue, muscular weakness, labored breathing, or gastrointestinal irritation if swallowed. The relatively low concentration of the aminophenol in the product may minimize some or all of these effects.

Primary Routes of Entry: Skin, ingestion, inhalation.

Signs and Symptoms of Exposure: Eye, skin, respiratory, or gastrointestinal irritation. It is possible that such irritation may be severe and lead to burns. Allergic reactions may occur.

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

## MATERIAL SAFETY DATA SHEET

Page 02 of 05

Item No.: HARDENER 01-81502

## 3. HAZARDS IDENTIFICATION

(continued)

## Existing Conditions

Aggravated by Exposure: Skin, eye, lung conditions.

Ingredients	Literature Referenced Target Organ and Other Health Effects	Carcinogen		
		NTP	IARC	OSHA
Polymercaptan	No Data	NO	NO	NO
Substituted aminophenol	ALG IRR	NO	NO	NO
Nonylphenol	ALG COR IRR KID	NO	NO	NO
Heptakis (dipropyleneglycol) triphosphite	No Data	NO	NO	NO

## Abbreviations

ALG Allergen  
IRR Irritant

COR Corrosive  
KID Kidney

## 4. FIRST AID MEASURES

Ingestion: Do not induce vomiting. Keep individual calm. Obtain medical attention.

Inhalation: Remove to fresh air. If symptoms persist, obtain medical attention.

Skin Contact: Wash with soap and water.

Eye Contact: Flush at least 15 minutes with water. Obtain medical attention.

## 5. FIRE FIGHTING MEASURES

Flash Point: More than 200øF 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 Oxides of carbon, sulfur, nitrogen and phosphorus,  
phosphite/phosphate esters, hydrocarbon fragments,  
hydrogen sulfide, phenols, phosphine.

Unusual Fire or  
Explosion Hazards: None

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

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

## MATERIAL SAFETY DATA SHEET

Page 03 of 05

Item No.: HARDENER 01-81502

## 6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case  
of spill or leak: Take up with an inert absorbent. Store in a closed  
container until disposal.

## 7. HANDLING AND STORAGE

Safe Storage: Store below 110°F.  
(Contact Loctite Customer Service 1-800-243-4874 for shelf life information)  
Handling: Avoid skin contact. Keep away from eyes. Do not  
breathe vapors.

## 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes: Safety glasses or goggles.  
Skin: Rubber or plastic gloves.  
Ventilation: Local exhaust ventilation should be provided.  
Respiratory: NIOSH/MSHA approved organic cartridge respirator  
if ventilation is inadequate.

See Section 2 for Exposure Limits.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Colorless, viscous liquid.  
Odor: Unpleasant  
Boiling Point: More than 300°F  
pH: Does not apply  
Solubility in Water: Slight  
Specific Gravity: 1.08  
Volatile Organic Compound  
(EPA Method 24) 11.08%; 119.7 grams per liter  
Vapor Pressure: Less than 5mm at 80°F  
Vapor Density: Not available  
Evaporation Rate  
(Ether = 1) Not available.

## 10. STABILITY AND REACTIVITY

Stability: Stable  
Hazardous Polymerization: Will not occur  
Incompatibility: Strong oxidizing agents, epoxy/amine mixtures.  
Possibly acids, peroxides, acetaldehyde, caustics.  
Conditions to Avoid: Not available  
Hazardous Decomposition  
Products (non-thermal): None

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

MATERIAL SAFETY DATA SHEET

Item No.: HARDENER 01-81502

11. TOXICOLOGICAL INFORMATION

See Section 3.

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Recommended methods of disposal: 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  
Hazard Class or Division: Unrestricted  
Identification Number: None  
Marine Pollutant: None  
IATA  
Proper Shipping Name: Unrestricted  
Class or Division: Unrestricted  
UN or ID Number: None

15. REGULATORY INFORMATION

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

16. OTHER INFORMATION

Estimated NFPA(R) Code:  
Health Hazard: 2  
Fire Hazard: 1  
Reactivity Hazard: 0  
Specific Hazard: Does not apply

Estimated HMIS(R) Code:  
Health Hazard: 2\*  
Flammability Hazard: 1  
Reactivity Hazards: 0  
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.

HENKEL CONSUMER ADHESIVES

08/08/00

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

MATERIAL SAFETY DATA SHEET

Page 05 of 05

Item No.: HARDENER 01-81502

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