

Revision Date: 07/16/2007

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## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product name:** HYSOL E-40HT EPOXY 400ML PT B  
**Product type:** Adhesive  
**Company address:**  
 Henkel Corporation  
 1001 Trout Brook Crossing  
 Rocky Hill, Connecticut 06067

**Item No. :** 1086064\_193386 / IDH No. 1086064  
**Region:** United States  
**Contact Information:**  
 Telephone: 860.571.5100  
 Emergency telephone: 860.571.5100  
 Internet: www.loctite.com

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous components</u>	<u>%</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>OTHER</u>
1,4-piperazinedipropanamine 7209-38-3	30-60	None	None	None
Butadiene-acrylonitrile copolymer 68683-29-4	10-30	None	None	None
Silica, amorphous (fumed) 7631-86-9	5-10	6 mg/m <sup>3</sup> TWA	10 mg/m <sup>3</sup> TWA	3 mg/m <sup>3</sup> TWA respirable dust
Benzyl alcohol 100-51-6	5-10	None	None	10 ppm TWA (WEEL)
Isophoronediamine 2855-13-2	5-10	None	None	None
Diethylene glycol Di-(3-aminopropyl)ether 4246-51-9	1-5	None	None	None
Phenol 108-95-2	1-5	5 ppm TWA (skin)	19 mg/m <sup>3</sup> TWA 5 ppm TWA (skin)	None
N-(2-Aminoethyl)piperazine 140-31-8	1-5	None	None	None

## 3. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

**Physical state:** Liquid  
**Color:** Amber  
**Odor:** Slight

#### HMIS:

**HEALTH:**  
**FLAMMABILITY:**  
**PHYSICAL HAZARD:**  
**Personal Protection:**

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 1  
 0  
 See Section 8

**DANGER:** MAY CAUSE EYE, SKIN AND RESPIRATORY BURNS  
 MAY CAUSE ALLERGIC SKIN REACTION.

**Relevant routes of exposure:** Skin, Inhalation, Eyes

### Potential Health Effects

**Inhalation:** Respiratory tract burns.  
**Skin contact:** May cause skin burns. Repeated or prolonged skin contact may result in allergic sensitization.  
**Eye contact:** Can cause pain, burns, necrosis and permanent injury.  
**Ingestion:** May cause burns if swallowed.

**Existing conditions aggravated by exposure:** Skin disorders. Skin allergies.

#### 4. FIRST AID MEASURES

<b>Inhalation:</b>	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
<b>Skin contact:</b>	Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and shoes. Get medical attention.
<b>Eye contact:</b>	Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
<b>Ingestion:</b>	DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Keep individual calm. Get medical attention if symptoms develop and persist.

#### 5. FIRE-FIGHTING MEASURES

<b>Flash point:</b>	Greater than 93.94°C (201.1°F)    Pensky Martens closed cup
<b>Autoignition temperature:</b>	Not determined
<b>Flammable/Explosive limits-lower %:</b>	Not determined
<b>Flammable/Explosive limits-upper %:</b>	Not determined
<b>Extinguishing media:</b>	Water spray (fog), foam, dry chemical or carbon dioxide.
<b>Special fire fighting procedures:</b>	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. Cartridge respirators do not provide adequate protection for fire fighters or exotherm mitigation.
<b>Unusual fire or explosion hazards:</b>	May liberate large quantities of dense, foul-smelling smoke which may contain unidentified toxic gasses.
<b>Hazardous combustion products:</b>	Oxides of carbon and nitrogen, aldehydes, acids and undetermined organics.

#### 6. ACCIDENTAL RELEASE MEASURES

<b>Environmental precautions:</b>	Do not allow material to contaminate ground water system.
<b>Clean-up methods:</b>	Wear protective clothing, gloves and safety glasses. Scrape up as much material as possible. Store in a closed container until ready for disposal.

#### 7. HANDLING AND STORAGE

<b>Handling:</b>	Avoid contact with eyes, skin and clothing. For the Part A plus Part B adhesive mixture, follow curing schedule as recommended in product literature. Keep away from heat, spark and flame. Keep container closed.
<b>Storage:</b>	Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.
<b>Incompatible products:</b>	Keep away from strong oxidizing agents, strong Lewis or mineral acids.

For information on product shelf life contact Henkel Customer Service at (800) 243-4874.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Engineering controls:</b>	Local exhaust ventilation is recommended when general ventilation is not sufficient to control airborne contamination below occupational exposure limits.
<b>Respiratory protection:</b>	Use a NIOSH approved air-purifying respirator if the potential to exceed established exposure limits exists.
<b>Skin protection:</b>	Chemical resistant, impermeable gloves.

**Eye/face protection:**

Chemical splash goggles or safety glasses with side shields.

**See Section 2 for exposure limits.**

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b>	Liquid
<b>Color:</b>	Amber
<b>Odor:</b>	Slight
<b>Vapor pressure:</b>	Not available
<b>pH:</b>	Not applicable
<b>Boiling point/range:</b>	Not available
<b>Melting point/range:</b>	Not available
<b>Specific gravity:</b>	1.01
<b>Vapor density:</b>	Not available
<b>Evaporation rate:</b>	Not available
<b>Solubility in water:</b>	Not available
<b>Partition coefficient (n-octanol/water):</b>	Not available
<b>VOC content:</b>	0%; 0 grams/liter (value as mixed for use)

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable.
<b>Hazardous polymerization:</b>	May occur.
<b>Hazardous decomposition products:</b>	Oxides of carbon and nitrogen, aldehydes, acids and undetermined organics.
<b>Incompatibility:</b>	Keep away from strong oxidizing agents, strong Lewis or mineral acids.
<b>Conditions to avoid:</b>	Avoid mixing resin (Part A) and curing agent (Part B) in batches greater than 1 pound(s) (.454 kg) unless you plan to use immediately. Do not heat mixed adhesive unless you plan to use immediately. Failure to observe these precautions may result in excessive heat build-up causing an exotherm. The exotherm has the potential for release of toxic gasses.

## 11. TOXICOLOGICAL INFORMATION

### Carcinogen Status

<b>Hazardous components</b>	<b>NTP Carcinogen</b>	<b>IARC Carcinogen</b>	<b>OSHA Carcinogen</b>
1,4-piperazinedipropanamine 7209-38-3	No	No	No
Butadiene-acrylonitrile copolymer 68683-29-4	No	No	No
Silica, amorphous (fumed) 7631-86-9	No	No	No
Benzyl alcohol 100-51-6	No	No	No
Isophoronediamine 2855-13-2	No	No	No
Diethylene glycol Di-(3-aminopropyl)ether 4246-51-9	No	No	No
Phenol 108-95-2	No	No	No
N-(2-Aminoethyl)piperazine 140-31-8	No	No	No

### Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs
1,4-piperazinedipropanamine 7209-38-3	No data
Butadiene-acrylonitrile copolymer 68683-29-4	No Target Organs
Silica, amorphous (fumed) 7631-86-9	Nuisance dust
Benzyl alcohol 100-51-6	Allergen, Central nervous system, Corrosive, Irritant
Isophoronediamine 2855-13-2	Allergen, Corrosive, Irritant, Lung
Diethylene glycol Di-(3-aminopropyl)ether 4246-51-9	Corrosive
Phenol 108-95-2	Blood, Cardiac, Corrosive, Developmental, Eyes, Irritant, Kidney, Liver, Mutagen, Nervous System, Skin, Vascular
N-(2-Aminoethyl)piperazine 140-31-8	Irritant, Corrosive, Allergen

## 12. ECOLOGICAL INFORMATION

Ecological information: Not available

## 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Dispose of according to Federal, State and local governmental regulations.

EPA hazardous waste number: U188: Phenol

## 14. TRANSPORT INFORMATION

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

**Proper shipping name:** Amines, liquid, corrosive, n.o.s. ( Diethyleneglycol diaminopropyl ether , 1,4-piperazinedipropanamine )  
**Hazard class or division:** 8  
**Identification number:** UN 2735  
**Packing group:** III  
**DOT reportable quantity (lbs):** Phenol (CAS# 108-95-2) is reportable at 1000 lbs (454 kg)

### International Air Transportation (ICAO/IATA):

**Proper shipping name:** Amines, liquid, corrosive, n.o.s. ( Diethyleneglycol diaminopropyl ether , 1,4-piperazinedipropanamine )  
**Hazard class or division:** 8  
**Identification number:** UN 2735  
**Packing group:** III

### WaterTransportation (IMO/IMDG):

**Proper shipping name:** Amines, liquid, corrosive, n.o.s. ( Diethyleneglycol diaminopropyl ether , 1,4-piperazinedipropanamine )  
**Hazard class or division:** 8  
**Identification number:** UN 2735  
**Packing group:** III

## 15. REGULATORY INFORMATION

### United States Regulatory Information

<b>TSCA 8 (b) Inventory Status:</b>	All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.
<b>TSCA 12 (b) Export Notification:</b>	None.
<b>CERCLA/SARA Section 302 EHS:</b>	None above reporting de minimus.
<b>CERCLA/SARA Section 311/312:</b>	Immediate Health Hazard, Delayed Health Hazard
<b>CERCLA/SARA 313:</b>	This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). Phenol (CAS# 108-95-2) .
<b>California Proposition 65:</b>	No California Proposition 65 listed chemicals are known to be present.

### Canada Regulatory Information

<b>CEPA DSL/NDL Status:</b>	All components are listed on or are exempt from listing on the Domestic Substances List.
<b>WHMIS hazard class:</b>	E, D.2.B, D.2.A

## 16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: First issue.

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