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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: HYSOL E-40HT EPOXY 50ML PT B
Product type: Adhesive
Company address:
 Henkel Corporation
 1001 Trout Brook Crossing
 Rocky Hill, Connecticut 06067

Item No. : 1086062_193386 / IDH No. 1086062
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 ³ TWA	10 mg/m ³ TWA	3 mg/m ³ 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 ³ 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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 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

Inhalation:	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Skin contact:	Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and shoes. Get medical attention.
Eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
Ingestion:	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

Flash point:	Greater than 93.94°C (201.1°F) Pensky Martens closed cup
Autoignition temperature:	Not determined
Flammable/Explosive limits-lower %:	Not determined
Flammable/Explosive limits-upper %:	Not determined
Extinguishing media:	Water spray (fog), foam, dry chemical or carbon dioxide.
Special fire fighting procedures:	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.
Unusual fire or explosion hazards:	May liberate large quantities of dense, foul-smelling smoke which may contain unidentified toxic gasses.
Hazardous combustion products:	Oxides of carbon and nitrogen, aldehydes, acids and undetermined organics.

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions:	Do not allow material to contaminate ground water system.
Clean-up methods:	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

Handling:	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.
Storage:	Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.
Incompatible products:	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

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

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

10. STABILITY AND REACTIVITY

Stability:	Stable.
Hazardous polymerization:	May occur.
Hazardous decomposition products:	Oxides of carbon and nitrogen, aldehydes, acids and undetermined organics.
Incompatibility:	Keep away from strong oxidizing agents, strong Lewis or mineral acids.
Conditions to avoid:	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

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
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

TSCA 8 (b) Inventory Status:	All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.
TSCA 12 (b) Export Notification:	None.
CERCLA/SARA Section 302 EHS:	None above reporting de minimus.
CERCLA/SARA Section 311/312:	Immediate Health Hazard, Delayed Health Hazard
CERCLA/SARA 313:	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) .
California Proposition 65:	No California Proposition 65 listed chemicals are known to be present.

Canada Regulatory Information

CEPA DSL/NDSL Status:	All components are listed on or are exempt from listing on the Domestic Substances List.
WHMIS hazard class:	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.

Prepared by: Gary Pierson, Sr. Product Safety and Regulatory Affairs Specialist

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