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COLLEGE HORTON



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Revision Number: 002.1

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: HYSOL E-40HT EPOXY 50ML PT B
Product type: Hardener
Company address: Henkel Corporation
 One Henkel Way
 Rocky Hill, Connecticut 06067
IDH number: 1086062
Item number: 1086062_193386
Region: United States
Contact information:
 Telephone: 860.571.5100
 Emergency telephone: 860.571.5100
 Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Physical state: Liquid
Color: amber
Odor: Slight
DANGER: CAUSES EYE, SKIN AND RESPIRATORY TRACT BURNS.
 MAY CAUSE ALLERGIC SKIN REACTION.
 MAY BE HARMFUL IF SWALLOWED, ABSORBED THROUGH SKIN OR INHALED.
HMIS:
HEALTH: *3
FLAMMABILITY: 1
PHYSICAL HAZARD: 0
Personal Protection: See MSDS Section 8

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

Potential Health Effects

Inhalation: Respiratory tract burns. May be harmful if inhaled. May cause delayed lung injury.
Skin contact: Causes skin burns. May cause allergic skin reaction. May be harmful if absorbed through skin. May cause central nervous system effects.
Eye contact: Causes eye burns.
Ingestion: May cause burns of mouth and throat if swallowed. May be harmful if swallowed.

Existing conditions aggravated by exposure: Eye, skin and respiratory disorders.

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components	CAS NUMBER	%
N,N'-Bis(3-aminopropyl)piperazine	7209-38-3	30 - 60
2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-(1-piperazinyl)ethyl]amino]butyl-terminated	68683-29-4	10 - 30
Silica, amorphous, fumed, crystal-free	112945-52-5	5 - 10
Benzyl alcohol	100-51-6	1 - 5
3,3'-Oxybis(ethyleneoxy)bis(propylamine)	4246-51-9	1 - 5
3- Aminomethyl-3,5,5-trimethylcyclohexylamine	2855-13-2	1 - 5
N-Aminoethylpiperazine	140-31-8	1 - 5
Phenol	108-95-2	0.1 - 1

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous components	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
N,N'-Bis(3-aminopropyl)piperazine	None	None	None	None
2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-(1-piperazinyl)ethyl]amino]butyl-terminated	None	None	None	None
Silica, amorphous, fumed, crystal-free	10 mg/m ³ TWA Inhalable dust. 3 mg/m ³ TWA Respirable fraction.	20 MPPCF TWA 0.8 mg/m ³ TWA	None	None
Benzyl alcohol	None	None	10 ppm (44 mg/m ³) TWA	None
3,3'-Oxybis(ethyleneoxy)bis(propylamine)	None	None	None	None
3- Aminomethyl-3,5,5-trimethylcyclohexylamine	None	None	None	None
N-Aminoethylpiperazine	None	None	None	None
Phenol	5 ppm TWA (SKIN)	5 ppm (19 mg/m ³) TWA (SKIN)	None	None

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.

Eye/face protection:

Safety goggles or safety glasses with side shields. Full face protection should be used if the potential for splashing or spraying of product exists.

Skin protection:

Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Color:	amber
Odor:	Slight
Odor threshold:	Not available
pH:	Not available
Vapor pressure:	Not available
Boiling point/range:	Not available
Melting point/ range:	Not available
Specific gravity:	1.01
Vapor density:	Not available
Flash point:	> 93.9 °C (> 201.02 °F) Pensky Martens closed cup
Flammable/Explosive limits - lower:	Not available
Flammable/Explosive limits - upper:	Not available
Autoignition temperature:	Not available
Evaporation rate:	Not available
Solubility in water:	Not available
Partition coefficient (n-octanol/water):	Not available
VOC content:	0 %; 0 g/l (value as mixed for use)

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13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Follow all local, state, federal and provincial regulations for disposal.

Hazardous waste number: Not a RCRA hazardous waste.

14. TRANSPORT INFORMATION**U.S. Department of Transportation Ground (49 CFR)**

Proper shipping name: Amines, liquid, corrosive, n.o.s. (1,4-Piperazinedipropanamine, Diethyleneglycol diaminopropyl ether)

Hazard class or division: 8

Identification number: UN 2735

Packing group: III

International Air Transportation (ICAO/IATA)

Proper shipping name: Amines, liquid, corrosive, n.o.s. (1,4-Piperazinedipropanamine, Diethyleneglycol diaminopropyl ether)

Hazard class or division: 8

Identification number: UN 2735

Packing group: III

Water Transportation (IMO/IMDG)

Proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (1,4-Piperazinedipropanamine, Diethyleneglycol diaminopropyl ether)

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 above reporting de minimus

CERCLA/SARA Section 302 EHS: None above reporting de minimus

CERCLA/SARA Section 311/312: Immediate Health, Delayed Health

CERCLA/SARA 313: None above reporting de minimus

California Proposition 65: No California Proposition 65 listed chemicals are known to be present.

Canada Regulatory Information

CEPA DSL/NDL Status: All components are listed on or are exempt from listing on the Canadian Domestic Substances List.

WHMIS hazard class: D.2.A, D.2.B, E

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: New Material Safety Data Sheet format. 2,3,5,6, 7, 8, 10, 13, 14, 15

Prepared by: Rena Petrides, Regulatory Affairs Specialist