



Revision Number: 006.0

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1. IDENTIFICATION

Product name:	LOCTITE EA E-20HP B HARDENER known as DB EPOXY ADH E-20HP 50 ML HARD	IDH number:	701980
Product type/	Epoxy Hardener	Item number:	29314_209533
Recommended use:		Region:	United States
Restriction of Use:	None identified	Contact information:	
Company address:	Henkel Corporation One Henkel Way Rocky Hill, Connecticut 06067		Telephone: +1 (860) 571-5100 MEDICAL EMERGENCY Phone: Poison Control Center 1-877-671-4608 (toll free) or 1-303-592-1711 TRANSPORT EMERGENCY Phone: CHEMTREC 1-800-424-9300 (toll free) or 1-703-527-3887 MEDICAL EMERGENCY Phone: Poison Control Center 1-877-671-4608 (toll free) or 1-303-592-1711 TRANSPORT EMERGENCY Phone: CHEMTREC 1-800-424-9300 (toll free) or 1-703-527-3887 Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER: H302 - HARMFUL IF SWALLOWED.
H314 - CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.
H317 - MAY CAUSE AN ALLERGIC SKIN REACTION.

HAZARD CLASS	HAZARD CATEGORY
ACUTE TOXICITY ORAL	4
SKIN CORROSION	1
SERIOUS EYE DAMAGE	1
SKIN SENSITIZATION	1

PICTOGRAM(S)



Precautionary Statements

Prevention:	P261 - Avoid breathing mist/vapours. P264 - Wash affected area thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P272 - Contaminated work clothing should not be allowed out of the workplace. P280 - Wear protective gloves, clothing, eye and face protection.
Response:	P301+P312+P330 - IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth. P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. P304+P340+P310 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P333+P313 - If skin irritation or rash occurs: Get medical attention. P362+P364 - Take off contaminated clothing and wash it before reuse.
Storage:	P405 - Store locked up.
Disposal:	P501 - Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

IDH number: 701980

Product name: LOCTITE EA E-20HP B HARDENER known as DB EPOXY ADH E-20HP 50 ML HARD

Other hazards

Not available.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Weight %*
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, reaction products with 3,3'-[oxybis(2,1-ethanediyloxy)]	68585-28-4	30 - 60
3,3'-Oxybis(ethyleneoxy)bis(propylamine)	4246-51-9	10 - 30
Trifluoromethanesulphonic acid, compound with diethylamine (1:1)	60933-18-8	5 - 10
Glycerol	56-81-5	1 - 5
2,4,6-tris(dimethylaminomethyl)phenol	90-72-2	1 - 5
Silane, dichlorodimethyl-, reaction products with silica	68611-44-9	1 - 5
Diethyleneglycol monoethyl ether	111-90-0	1 - 5
Ethylene glycol	107-21-1	0.1 - 1

* Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

4. FIRST AID MEASURES

First Aid Measures by likely routes of exposure

Inhalation:	Move 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 footwear. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
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. Give a conscious person several glasses of water. Never give anything by mouth to an unconscious person. Get medical attention.
Most important symptoms and effects (acute and delayed):	The most important known symptoms and effects, both acute and delayed, are described in Section 11: Toxicological Information.
Indication of any immediate medical attention / special treatment needed:	Not available.

5. FIRE FIGHTING MEASURES

Extinguishing media:	Foam, dry chemical or carbon dioxide.
Improper extinguishing agents:	Not available.
Special firefighting procedures:	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.
Unusual fire or explosion hazards:	Personnel in vicinity and downwind should be evacuated. Burning produces obnoxious and toxic fumes.

Hazardous combustion products:

Oxides of carbon. Oxides of nitrogen. Oxides of sulfur. Acrolein. Ammonia.
Hydrogen fluoride. Nitric acid. Toxic fumes. Irritating vapors.

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions:

Do not allow product to enter sewer or waterways.

Clean-up methods:

Ensure adequate ventilation. Wear appropriate personal protective equipment. Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Scrape up spilled material and place in a closed container for disposal.

7. HANDLING AND STORAGE

Handling:

Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Use only with adequate ventilation. Keep container closed.

Storage:

Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials. Keep away from heat, spark and flame. Do not store in reactive metal containers.

Shelf Life Statement: Not available.

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 Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Glycerol	None	5 mg/m ³ PEL Respirable fraction. 15 mg/m ³ PEL Total dust.	None	None
Silane, dichlorodimethyl-, reaction products with silica	3 mg/m ³ TWA Respirable particles. 10 mg/m ³ TWA Inhalable particles.	0.8 mg/m ³ TWA 20 MPPCF TWA 50 MPPCF TWA Total dust. 15 mg/m ³ TWA Total dust. 5 mg/m ³ TWA Respirable fraction. 15 MPPCF TWA Respirable fraction.	None	None
Diethyleneglycol monoethyl ether	None	None	25 ppm (140 mg/m ³) TWA	None

Engineering controls:

Use local ventilation if general ventilation is insufficient to maintain vapor concentration below established exposure limits.

Respiratory protection:

Use NIOSH approved respirator if there is potential to exceed exposure limit(s).

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:

Light yellow

Odor:

Mild

Odor threshold:

Not available.

pH:

Not applicable

Vapor pressure:	Not available.
Boiling point/range:	Not available.
Melting point/ range:	Not available.
Density/Relative density:	1.15
Relative vapor density:	Not available.
Flash point:	> 93.4 °C (> 200.12 °F) Setaflash Closed Cup
Flammable/Explosive limits - lower:	Not available.
Flammable/Explosive limits - upper:	Not available.
Autoignition temperature:	Not available.
Flammability:	Not applicable
Evaporation rate:	Not available.
Solubility:	Partially soluble
Partition coefficient n-octanol/water (logarithmic value):	Not available.
VOC content:	< 1.0 %; < 10 g/l Estimated
Dynamic viscosity:	Not available.
Kinematic viscosity:	Not available.
Particle characteristics:	Not available.
Decomposition temperature:	Not available.

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions of storage and use.
Hazardous reactions:	None under normal processing.
Hazardous decomposition products:	Oxides of carbon. Oxides of nitrogen. Oxides of sulfur. Acrolein. Ammonia. Nitric acid. Hydrogen fluoride. Toxic fumes. Irritating vapors.
Incompatible materials:	Oxidizing agents. Organic acids. Mineral acids. Peroxides. Sodium hypochlorite. This product slowly corrodes copper, aluminum, zinc and galvanized surfaces.
Reactivity:	Not available.
Conditions to avoid:	Keep away from heat, ignition sources and incompatible materials.

11. TOXICOLOGICAL INFORMATION

Likely routes of exposure:	Skin, Inhalation, Eyes, Ingestion
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Potential Health Effects/Symptoms

Inhalation:	Mists, vapors or liquid may cause severe irritation or burns.
Skin contact:	Causes skin burns. May cause allergic skin reaction.
Eye contact:	Causes serious eye damage.
Ingestion:	If ingested, severe burns of the mouth and throat may occur, as well as perforation of the esophagus and the stomach.

Hazardous Component(s)	LD50s and LC50s
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, reaction products with 3,3'-[oxybis(2,1-ethanedioxy)]	None
3,3'-Oxybis(ethyleneoxy)bis(propylamine)	None
Trifluoromethanesulphonic acid, compound with diethylamine (1:1)	None
Glycerol	None
2,4,6-tris(dimethylaminomethyl)phenol	None
Silane, dichlorodimethyl-, reaction products with silica	None
Diethyleneglycol monoethyl ether	Oral LD50 (Rat) = 1,920 mg/kg Oral LD50 (Rat) = 5.54 g/kg Oral LD50 (Rat) = 5,900 mg/kg Oral LD50 (Mouse) = 6.58 g/kg Oral LD50 (Rabbit) = 3,620 mg/kg Oral LD50 (Rat) = 6,500 mg/kg Oral LD50 (Mouse) = 7,863 mg/kg Oral LD50 (Mouse) = 12,400 mg/kg Oral LD50 (Rabbit) = 4,450 mg/kg Oral LD50 (Rat) = 7,500 mg/kg Oral LD50 (Mouse) = 7,248 mg/kg Dermal LD50 (Mouse) = 6,000 mg/kg Dermal LD50 (Rabbit) = 10,300 mg/kg Dermal LD50 (Rat) = 6,000 mg/kg Dermal LD50 (Rabbit) = 11,176 mg/kg Dermal LD50 (Rabbit) = 8,500 mg/kg Dermal LD50 (Rabbit) = 8,476 mg/kg
Ethylene glycol	Oral LD50 (Rat) = 5.89 g/kg Oral LD50 (Mouse) = 14.6 g/kg Dermal LD50 (Rabbit) = 9,530 mg/kg

Hazardous Component(s)	Immediate Health Effects	Delayed Health Effects	Chronic Health Effects
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, reaction products with 3,3'-[oxybis(2,1-ethanedioxy)]			
3,3'-Oxybis(ethyleneoxy)bis(propylamine)	Corrosive		
Trifluoromethanesulphonic acid, compound with diethylamine (1:1)			
Glycerol	Irritant Nuisance dust		
2,4,6-tris(dimethylaminomethyl)phenol	Irritant	Allergen	
Silane, dichlorodimethyl-, reaction products with silica			
Diethyleneglycol monoethyl ether	Irritant		Blood Central nervous system Kidney
Ethylene glycol	Irritant		Blood Bone Marrow Central nervous system Developmental Eyes Kidney Liver Metabolic

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, reaction products with 3,3'-[oxybis(2,1-ethanedioxy)]	No	No	No

3,3'-Oxybis(ethyleneoxy)bis(propylamine)	No	No	No
Trifluoromethanesulphonic acid, compound with diethylamine (1:1)	No	No	No
Glycerol	No	No	No
2,4,6-tris(dimethylaminomethyl)phenol	No	No	No
Silane, dichlorodimethyl-, reaction products with silica	No	No	No
Diethyleneglycol monoethyl ether	No	No	No
Ethylene glycol	No	No	No

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.

14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any packaging.

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

Proper shipping name: Amines, liquid, corrosive, n.o.s. (Polyglycol diamine)
Hazard class or division: 8
Identification number: UN 2735
Packing group: II

International Air Transportation (ICAO/IATA)

Proper shipping name: Amines, liquid, corrosive, n.o.s. (Polyglycol diamine)
Hazard class or division: 8
Identification number: UN 2735
Packing group: II

Water Transportation (IMO/IMDG)

Proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (Polyglycol diamine)
Hazard class or division: 8
Identification number: UN 2735
Packing group: II

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status: All components are listed as active or are exempt from listing on the Toxic Substances Control Act (TSCA) inventory.
TSCA 12 (b) Export Notification: None above reporting de minimis.
CERCLA/SARA Section 302 EHS: None above reporting de minimis.
CERCLA/SARA Section 311/312: Please refer to the GHS classification in Section 2
CERCLA/SARA Section 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). Diethyleneglycol monoethyl ether (CAS# 111-90-0).

California Proposition 65: This product contains a chemical known in the State of California to cause cancer. This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Canada Regulatory Information

CEPA DSL/NDSL Status: Contains one or more components listed on the Non-Domestic Substances List. All other components are listed on or are exempt from listing on the Domestic Substances List. Components listed on the NDSL must be tracked by all Canadian Importers of Record as required by Environment Canada. They may be imported into Canada in limited quantities. Please contact Regulatory Affairs for additional details.

16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: New Safety Data Sheet format. 2, 3, 4, 8, 9, 11, 13

Prepared by: Product Safety and Regulatory Affairs

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