Material Safety Data Sheet



Revision Number: 002.2 Issue date: 07/14/2010

1. PRODUCT AND COMPANY IDENTIFICATION

Product name:DB EPOXY ADH E-120HP 50 ML. HARIDH number:702022Product type:Epoxy HardenerItem number:29353_209548Region:United States

Company address:Contact information:Henkel CorporationTelephone: 860.571.5100

One Henkel Way Emergency telephone: 860.571.5100 Rocky Hill, Connecticut 06067 Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW HMIS:

Physical state:LiquidHEALTH:*3Color:AmberFLAMMABILITY:1Odor:SlightPHYSICAL HAZARD:0

Personal Protection: See MSDS Section 8

DANGER: CAUSES EYE AND SKIN BURNS.

MAY CAUSE ALLERGIC SKIN REACTION.

MAY BE HARMFUL IF SWALLOWED OR ABSORBED THROUGH SKIN.

MAY CAUSE RESPIRATORY TRACT IRRITATION.

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

Potential Health Effects

Inhalation: Moderate respiratory tract irritation.

Skin contact: Causes skin burns. May cause allergic skin reaction. Severe skin irritation. May be harmful if

absorbed through skin.

Eye contact: Causes eye burns. Severe eye irritation. May cause permanent visual impairment.

Ingestion: If ingested, severe burns of the mouth and throat may occur, as well as perforation of the

esophagus and the stomach. 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	%
Dimer fatty acid C18 unsaturated polyethylenepolyamine condensate	68410-23-1	60 - 100
Tetraethylene pentamine	112-57-2	10 - 30
Triethylenetetramine	112-24-3	5 - 10

4. FIRST AID MEASURES

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give

artificial respiration. Get medical attention.

Skin contact: Immediately flush skin with plenty of water (using soap, if available). Remove

contaminated clothing and footwear. Wash clothing before reuse. Get medical

attention. Thoroughly clean shoes before reuse.

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Get

immediate medical attention.

Ingestion: DO NOT induce vomiting unless directed to do so by medical personnel.

Rinse the mouth. Drink 1-2 glasses of water. Never give anything by mouth to

an unconscious person. Get immediate medical attention.

5. FIRE FIGHTING MEASURES

Flash point: > 93 °C (> 199.4 °F); Estimated

Autoignition temperature:

Flammable/Explosive limits - lower:

Not available
Flammable/Explosive limits - upper:

Not available

Extinguishing media: Dry chemical. Carbon dioxide. Alcohol foam.

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. In case of fire, keep containers cool with water spray. Closed containers may rupture (due to build up of pressure) when

exposed to extreme heat.

Hazardous combustion products: Ammonia. Oxides of carbon. Oxides of nitrogen.

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: Remove all sources of ignition. Ensure adequate ventilation. Wear appropriate

personal protective equipment. 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. Do not taste or swallow. 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.

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

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
Dimer fatty acid C18 unsaturated polyethylenepolyamine condensate	None	None	None	None
Tetraethylene pentamine	None	None	1 ppm (5 mg/m3) TWA Aerosol. (SKIN) Aerosol. (Skin sensitizer)	None
Triethylenetetramine	None	None	1 ppm (6 mg/m3) TWA (SKIN)	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.

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 Slight Odor: Not available Odor threshold: pH: Not available Not available Vapor pressure: Boiling point/range: Not available Melting point/ range: Not available Vapor density: Not available

Flash point: > 93 °C (> 199.4 °F); Estimated

Flammable/Explosive limits - lower:

Flammable/Explosive limits - upper:

Autoignition temperature:

Evaporation rate:

Solubility in water:

Partially soluble

Partition coefficient (n-octanol/water):

Not available

Not available

VOC content: < 1.0 %; < 10 g/l Estimated

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of storage and use.

Hazardous reactions: None under normal processing.

Hazardous decomposition products: Ammonia. Oxides of carbon. Oxides of nitrogen.

Incompatible materials: Strong oxidizing agents. Acids.

Conditions to avoid: Keep away from heat, ignition sources and incompatible materials. Exposure

to water vapour. Exposure to sunlight.

11. TOXICOLOGICAL INFORMATION

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Dimer fatty acid C18 unsaturated polyethylenepolyamine condensate	No	No	No
Tetraethylene pentamine	No	No	No
Triethylenetetramine	No	No	No

Hazardous components	Health Effects/Target Organs
Dimer fatty acid C18 unsaturated polyethylenepolyamine condensate	Corrosive, Irritant
Tetraethylene pentamine	Irritant, Mutagen, Allergen
Triethylenetetramine	Allergen, Corrosive, Developmental, Irritant, Mutagen

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.

Hazardous waste number: Not a RCRA hazardous waste.

14. TRANSPORT INFORMATION

The shipping classifications in this sections are for non-bulk packaging only (unless otherwise specified). Shipping classification may be different for bulk packaging.

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

Proper shipping name: Amines, liquid, corrosive, n.o.s. (Tetraethylene pentamine, Triethylenetetramine,

dimer fatty acid(C18)poly amido amine resin)

Hazard class or division: 8

Identification number:UN 2735Packing group:III

International Air Transportation (ICAO/IATA)

Proper shipping name: Amines, liquid, corrosive, n.o.s. (Tetraethylene pentamine, Triethylenetetramine,

dimer fatty acid(C18)poly amido amine resin)

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. (Tetraethylene pentamine,

Triethylenetetramine, dimer fatty acid(C18)poly amido amine resin)

Hazard class or division: 8

Identification number:UN 2735Packing group:III

Marine pollutant: dimer fatty acid(C18)poly amido amine resin

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:
CERCLA/SARA Section 311/312:
CERCLA/SARA 313:

None above reporting de minimus
None above reporting de minimus

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 Canadian Domestic

Substances List.

IDH number: 702022 Product name: DB EPOXY ADH E-120HP 50 ML. HAR

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: 2, 4, 5, 6, 7, 10, 14

Prepared by: Rena Petrides, Regulatory Affairs Specialist

DISCLAIMER: The data contained herein are furnished for information only and are believed to be reliable. However, Henkel Corporation does not assume responsibility for any results obtained by persons over whose methods Henkel Corporation has no control. It is the user's responsibility to determine the suitability of Henkel's products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any of Henkel Corporation's products. In light of the foregoing, Henkel Corporation specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Henkel Corporation's products. Henkel Corporation further disclaims any liability for consequential or incidental damages of any kind, including lost profits.

IDH number: 702022 Product name: DB EPOXY ADH E-120HP 50 ML. HAR