

Revision Date: 02/14/2007

Issue date: 02/17/2007

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name:	HD3475	Item No. :	HD3475 / IDH No. 973577
Product type:	Epoxy Hardener	Region:	United States
Company address:	Henkel Corporation 211 Franklin Street Olean, New York 14760		
		Contact Information:	Telephone: 716.372.6300 Emergency Telephone: 860.571.5100 Internet: www.electronics.henkel.us

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous components</u>	<u>%</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>OTHER</u>
Epoxy resin/Curing agent Proprietary	60-100	None	None	None
Diethylene triamine 111-40-0	10-30	1 ppm TWA (skin)	None	None
4,4'-Isopropylidenediphenol 80-05-7	1-5	None	None	None

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Physical state: Liquid
Color: Amber
Odor: Ammoniacal

HMIS:

HEALTH: 3*
FLAMMABILITY: 1
PHYSICAL HAZARD: 0
Personal Protection: See Section 8

DANGER: CAUSES EYE AND SKIN BURNS.
 MAY BE HARMFUL IF SWALLOWED OR ABSORBED THROUGH SKIN.
 MAY CAUSE ALLERGIC SKIN AND RESPIRATORY REACTION.
 MAY CAUSE SEVERE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

Relevant routes of exposure: Eye contact, Ingestion, Inhalation, Skin contact

Potential Health Effects

Inhalation: May cause allergic respiratory reaction. May cause respiratory tract irritation.
Skin contact: May cause skin burns. May be harmful if absorbed through skin. May cause allergic skin reaction.
Eye contact: Burns. Severe eye irritation. Redness. Tissue damage. Corneal damage.
Ingestion: May be harmful if swallowed. May cause burns of mouth and throat if swallowed.

Existing conditions aggravated by exposure: Skin disorders. Skin allergies. Respiratory disorders. Eye disorders.

See Section 11 for additional toxicological information.

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. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if symptoms occur. For severe exposures, get under safety shower after removing clothing, then get medical attention.
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
Ingestion:	DO NOT induce vomiting unless directed to do so by medical personnel. Keep individual calm. Never give anything by mouth to an unconscious person. If individual is conscious, wash out mouth with water. Get medical attention immediately.

5. FIRE-FIGHTING MEASURES

Flash point:	Greater than 93°C (200°F) Closed cup
Autoignition temperature:	Not available
Flammable/Explosive limits-lower %:	Not available
Flammable/Explosive limits-upper %:	Not available
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.
Unusual fire or explosion hazards:	In the event of fire, cool tanks with water spray.
Hazardous combustion products:	Oxides of carbon. Oxides of nitrogen. Irritating organic fragments.

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions:	Prevent product from entering drains or open waters.
Clean-up methods:	Remove all ignition sources. Immediately contact emergency personnel. Scrape up as much material as possible. Clean residue with soap and water. Store in a closed container until ready for disposal.

7. HANDLING AND STORAGE

Handling:	Use only with adequate ventilation. Keep away from heat, spark and flame. Do not breathe mist or vapors. Keep container closed. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. For operations where eye or face contact could occur, provide safety shower and eyewash fountain.
Storage:	Store in original container until ready to use. Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.
Incompatible products:	Refer to Section 10.

For information on product shelf life contact Henkel Customer Service at 1-716-372-6300.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls:	Use local exhaust ventilation to maintain airborne concentrations below established 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. Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact.

Eye/face protection:

Chemical splash goggles or safety glasses with side shields. In a splash hazard environment, chemical goggles should be used in combination with a full face shield. An eyewash and safety shower should be nearby and ready for use.

See Section 2 for exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Color:	Amber
Odor:	Ammoniacal
Vapor pressure:	Not determined
pH:	Not applicable
Boiling point/range:	Not available
Melting point/range:	Not available
Specific gravity:	1.1
Vapor density:	Not determined
Evaporation rate:	Not determined
Solubility in water:	Soluble.
Partition coefficient (n-octanol/water):	Not available
VOC content:	<1%; <10 grams/liter (value for resin and hardener together)

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions of storage and use.
Hazardous polymerization:	None under normal processing.
Hazardous decomposition products:	CAUTION! N-nitrosamines (many of which are known to be potent carcinogens) may be formed when the product comes in contact with nitrous acid, nitrites or atmospheres with high nitrous oxide concentrations.
Incompatibility:	Nitrous acid and other nitrosating agents. Strong acids. Strong bases. Strong oxidizers. Water.
Conditions to avoid:	Excessive heat. Storage with incompatible materials.

11. TOXICOLOGICAL INFORMATION

Carcinogen Status

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Epoxy resin/Curing agent Proprietary	No	No	No
Diethylene triamine 111-40-0	No	No	No
4,4'-Isopropylidenediphenol 80-05-7	No	No	No

Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs
Epoxy resin/Curing agent Proprietary	No data
Diethylene triamine 111-40-0	Allergen, Eyes, Irritant
4,4'-Isopropylidenediphenol 80-05-7	Allergen, Blood, Irritant, Kidney, Spleen, Reproductive

12. ECOLOGICAL INFORMATION

Ecological information:	Not available
--------------------------------	---------------

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Dispose according to EPA and local governmental regulations.

EPA hazardous waste number: Not a RCRA hazardous waste.

14. TRANSPORT INFORMATION

The shipping classifications in this section 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: Diethylenetriamine Mixture
Hazard class or division: 8
Identification number: UN 2079
Packing group: II
Exceptions: Consumer Commodity ORM-D (Not more than 1 Liter)

International Air Transportation (ICAO/IATA):

Proper shipping name: Diethylenetriamine Mixture
Hazard class or division: 8
Identification number: UN2079
Packing group: II

Water Transportation (IMO/IMDG):

Proper shipping name: Diethylenetriamine Mixture
Hazard class or division: 8
Identification number: UN2079
Packing group: II

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.
CERCLA/SARA Section 311/312: Immediate 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). 4,4'-Isopropylidenediphenol (CAS# 80-05-7).

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: 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.

Prepared by: Dan Shaw, Product Safety and Regulatory Affairs Specialist
For Safety and Regulatory Information contact:
Product Safety and Regulatory Affairs,
Rocky Hill, CT.
860-571-5204

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.