



Revision Date: 03/09/2006

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: Encap® 3166 Epoxy Hardener
Product type: Epoxy Hardener
Company address:
Henkel Corporation
1001 Trout Brook Crossing
Rocky Hill, Connecticut 06067

Item No. : 39825
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>
Polyamine Proprietary	60-100	None	None	None
Nonylphenol 84852-15-3	10-30	None	None	None

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

HMIS:

Physical state: Liquid	HEALTH:	3
Color: Amber	FLAMMABILITY:	1
Odor: Ammoniacal	PHYSICAL HAZARD:	0
	Personal Protection:	See Section 8

DANGER: CAUSES EYE AND SKIN BURNS.
CAUSES RESPIRATORY TRACT IRRITATION.
CAN ENTER LUNGS AND CAUSE DAMAGE.
MAY BE HARMFUL IF SWALLOWED OR ABSORBED THROUGH SKIN.

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

Potential Health Effects

Inhalation: Causes respiratory tract irritation. Repeated or prolonged exposure could cause lung damage. Coughing.

Skin contact: Causes skin burns. Severe skin irritation. Redness. Swelling. Blistering. May be harmful if absorbed through skin.

Eye contact: Causes eye burns. Severe eye irritation. Pain and discomfort. Tearing. Redness. Swelling. Burns of the eye may cause blindness.

Ingestion: May cause burns of mouth, throat and stomach with abdominal and chest pain, nausea, vomiting, diarrhea, thirst, weakness and collapse. Aspiration may occur during swallowing or vomiting, resulting in lung damage. May be harmful if swallowed.

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

See Section 11 for additional toxicological information.

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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:	Remove contaminated clothing and shoes. Immediately flush skin with plenty of water (using soap, if available). Get medical attention. Wash clothing 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. Never give anything by mouth to an unconscious person. Get medical attention immediately.

5. FIRE-FIGHTING MEASURES

Flash point:	118°C (245°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:	Approach fire from upwind to avoid hazardous vapors and toxic decomposition products.
Hazardous combustion products:	Ammonia. Oxides of carbon. Oxides of nitrogen. Aldehydes. Ketones. Irritating organic fragments.

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions:	Do not allow material to contaminate ground water system. Prevent product from entering drains or open waters.
Clean-up methods:	Evacuate and ventilate spill area; dike spill to prevent entry into water system; wear full protective equipment during clean-up. Soak up with inert absorbent. Scrape up spilled material and place in a closed container for disposal.

7. HANDLING AND STORAGE

Handling:	Do not get in eyes. Do not get on skin or clothing. Do not breathe mist or vapors. Do not taste or swallow. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.
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:	Refer to Section 10.

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

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

Eye/face protection: Safety goggles or safety glasses with side shields. In a splash hazard environment, chemical goggles should be used in combination with a full face shield.

See Section 2 for exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid
Color: Amber
Odor: Ammoniacal
Vapor pressure: 0.2 mmHg
pH: Not applicable
Boiling point/range: Greater than 149°C (300°F)
Melting point/range: Not available
Specific gravity: 1.0
Vapor density: 0.2 (air equals 1)
Evaporation rate: <1 (Ether = 1)
Solubility in water: Soluble.
Partition coefficient (n-octanol/water): Not available
VOC content: <1%; <10 grams/liter (estimated)

10. STABILITY AND REACTIVITY

Stability: Stable.

Hazardous polymerization: Will not occur.

Hazardous decomposition products: Ammonia. Oxides of carbon. Oxides of nitrogen. Aldehydes. Ketones. Irritating organic fragments.

Incompatibility: Strong acids and oxidizing agents.

Conditions to avoid: Storage with incompatible materials. High temperatures.

11. TOXICOLOGICAL INFORMATION

Carcinogen Status

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Polyamine Proprietary	No	No	No
Nonylphenol 84852-15-3	No	No	No

Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs
Polyamine Proprietary	Irritant, Corrosive
Nonylphenol 84852-15-3	Irritant, Corrosive

12. ECOLOGICAL INFORMATION

Ecological information: Not available

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Dispose of in accordance with Federal, State and local 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: Corrosive liquids, n.o.s (Polyamine , Nonylphenol)
Hazard class or division: 8
Identification number: UN 1760
Packing group: III
Exceptions: (Not more than 5 L) Consumer Commodity ORM-D

International Air Transportation (ICAO/IATA):

Proper shipping name: Corrosive liquids, n.o.s (Polyamine , Nonylphenol)
Hazard class or division: 8
Identification number: UN1760
Packing group: III

Water Transportation (IMO/IMDG):

Proper shipping name: Corrosive liquids, n.o.s (Polyamine , Nonylphenol)
Hazard class or division: 8
Identification number: UN1760
Packing group: III
Marine pollutant: Nonylphenol

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 5 (a) (2) SNUR: None.
TSCA 12 (b) Export Notification: None.

CERCLA/SARA Section 302 EHS: None.
CERCLA/SARA Section 311/312: Immediate Health Hazard
CERCLA/SARA 313: None.

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

Canada Regulatory Information

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

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