Material Safety Data Sheet

Revision Date: 05/07/2008 **Issue date:** 05/07/2008

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: Loctite(R) Encap(R) 3162 Epoxy Hardener
Product type: Epoxy Hardener
Company address:
Henkel Corporation
211 Franklin Street
Olean, New York 14760

Item No. : 39960 / IDH No. 233557
Region: United States
Contact Information:
Telephone: 716.372.6300
Emergency Telephone: 860.571.5100
Internet: www.electronics.henkel.us

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components	%	ACGIH TLV	OSHA PEL	OTHER
N-(2-Aminoethyl)piperazine 140-31-8	30-60	None	None	None
Nonylphenol 84852-15-3	30-60	None	None	None

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

HMIS:

Physical state: Liquid
Color: Amber
Odor: Ammoniacal

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

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

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

Potential Health Effects

Inhalation: Severe respiratory tract irritation. Repeated or prolonged exposure could cause lung damage.
Skin contact: This material is corrosive to eyes and skin. Brief contact may cause chemical burns. Harmful if absorbed through skin.
Eye contact: Contact can cause pain, burns, necrosis, permanent injury, blindness.
Ingestion: Ingestion causes burns of the upper digestive and respiratory tracts. Danger of perforation of the esophagus and the stomach. Aspiration may occur during swallowing or vomiting, resulting in lung damage.

Existing conditions aggravated by exposure: Eye, skin, and respiratory 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. Get medical attention. Wash clothing before reuse.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Check for and remove any contact lenses. Get medical attention.

Ingestion: DO NOT induce vomiting unless directed to do so by medical personnel. If vomiting occurs, prevent aspiration by keeping the patient's head below the knees. Never give anything by mouth to an unconscious person. Get medical attention immediately.

5. FIRE-FIGHTING MEASURES

Flash point: 118.33°C (245°F) Closed cup

Autoignition temperature: Not determined

Flammable/Explosive limits-lower %: Not available

Flammable/Explosive limits-upper %: Not available

Extinguishing media: 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: None

Hazardous combustion products: Toxic fumes. Ammonia. Oxides of carbon, oxides of nitrogen, irritating organic vapors.

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions: 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 material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable and closed containers for disposal.

7. HANDLING AND STORAGE

Handling: Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Avoid all ignition sources in storing and handling this material. Keep cool in accordance with label instructions. Wear protective equipment when 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 1-716-372-6300.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls: Use local exhaust ventilation if the potential for airborne exposure exists.

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

Skin protection: Neoprene, Butyl-rubber, or nitrile-rubber gloves. Cover as much of the exposed skin area as possible with appropriate clothing.

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.

See Section 2 for exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Color:	Amber
Odor:	Ammoniacal
Vapor pressure:	0.2 mmHg
pH:	Alkaline
Boiling point/range:	Not determined
Melting point/range:	Not available
Specific gravity:	1.0
Vapor density:	Less than 1.0
Evaporation rate:	Less than 0.1
Solubility in water:	Soluble.
Partition coefficient (n-octanol/water):	Not available
VOC content:	0%; 0 grams/liter (estimated)

10. STABILITY AND REACTIVITY

Stability: Stable at normal conditions

Hazardous polymerization: None under normal processing.

Hazardous decomposition products: Carbon oxides. Nitrogen oxides (nox). Ammonia. 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.

Incompatability: Strong acids and oxidizing agents. This product slowly corrodes copper, aluminum, zinc and galvanized surfaces.

Conditions to avoid: Storage with incompatible materials. Keep away from open flames, hot surfaces and sources of ignition.

11. TOXICOLOGICAL INFORMATION

Carcinogen Status

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
N-(2-Aminoethyl)piperazine 140-31-8	No	No	No
Nonylphenol 84852-15-3	No	No	No

Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs
N-(2-Aminoethyl)piperazine 140-31-8	Irritant, Corrosive, Allergen
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: Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Waste must be tested to determine the applicable EPA hazardous waste numbers.

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 liquid, basic, organic, n.o.s. (Aminoethylpiperazine , Nonylphenol)
Hazard class or division:	8
Identification number:	UN 3267
Packing group:	III
Exceptions:	Consumer Commodity ORM-D (Not more than 4 L)
Marine pollutant:	Nonylphenol

International Air Transportation (ICAO/IATA):

Proper shipping name:	Corrosive liquid, basic, organic, n.o.s. (Aminoethylpiperazine , Nonylphenol)
Hazard class or division:	8
Identification number:	UN3267
Packing group:	III

WaterTransportation (IMO/IMDG):

Proper shipping name:	Corrosive liquid, basic, organic, n.o.s. (Aminoethylpiperazine , Nonylphenol)
Hazard class or division:	8
Identification number:	UN3267
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 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/NDSL Status: All components are listed on or are exempt from listing on the Domestic Substances List.
WHMIS hazard class: E, D.2.B

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: 1

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