

Revision Date: 07/10/2006

Issue date: 07/10/2006

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<b>Product name:</b>	Loctite(R) Encap(R) 3162 Epoxy Hardener	<b>Kit Number:</b>	ES6018
<b>Product type:</b>	Epoxy Hardener	<b>Item No. :</b>	39961
<b>Company address:</b>	Henkel Corporation 211 Franklin Street Olean, New York 14760	<b>Region:</b>	United States
		<b>Contact Information:</b>	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>
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:

<b>Physical state:</b> Liquid	<b>HEALTH:</b>	3*
<b>Color:</b> Amber	<b>FLAMMABILITY:</b>	1
<b>Odor:</b> Ammoniacal	<b>PHYSICAL HAZARD:</b>	0
	<b>Personal Protection:</b>	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

<b>Inhalation:</b>	Severe respiratory tract irritation. Repeated or prolonged exposure could cause lung damage.
<b>Skin contact:</b>	This material is corrosive to eyes and skin. Brief contact may cause chemical burns. Harmful if absorbed through skin.
<b>Eye contact:</b>	Contact can cause pain, burns, necrosis, permanent injury, blindness.
<b>Ingestion:</b>	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.

Item No. : 39961

Product name: Loctite(R) Encap(R) 3162 Epoxy Hardener

#### 4. FIRST AID MEASURES

<b>Inhalation:</b>	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
<b>Skin contact:</b>	Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse.
<b>Eye contact:</b>	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.
<b>Ingestion:</b>	DO NOT induce vomiting unless directed to do so by medical personnel. If vomiting occurs, prevent aspiration by keeping the patients head below the knees. Never give anything by mouth to an unconscious person. Get medical attention immediately.

#### 5. FIRE-FIGHTING MEASURES

<b>Flash point:</b>	118.33°C (245°F) Closed cup
<b>Autoignition temperature:</b>	Not determined
<b>Flammable/Explosive limits-lower %:</b>	Not available
<b>Flammable/Explosive limits-upper %:</b>	Not available
<b>Extinguishing media:</b>	Foam, dry chemical or carbon dioxide.
<b>Special fire fighting procedures:</b>	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.
<b>Unusual fire or explosion hazards:</b>	None
<b>Hazardous combustion products:</b>	Toxic fumes. Ammonia. Oxides of carbon, oxides of nitrogen, irritating organic vapors.

#### 6. ACCIDENTAL RELEASE MEASURES

<b>Environmental precautions:</b>	Prevent product from entering drains or open waters.
<b>Clean-up methods:</b>	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

<b>Handling:</b>	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,
<b>Storage:</b>	Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.
<b>Incompatible products:</b>	Refer to Section 10.

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

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Engineering controls:</b>	Use local exhaust ventilation if the potential for airborne exposure exists.
<b>Respiratory protection:</b>	Use NIOSH approved respirator if there is potential to exceed exposure limit(s).

Item No. : 39961

Product name: Loctite(R) Encap(R) 3162 Epoxy Hardener

**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.

**Incompatibility:** 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

Item No. : 39961

Product name: Loctite(R) Encap(R) 3162 Epoxy Hardener

### 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

#### Water Transportation (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: 14

**Prepared by:** Lou Fabrizio, Senior Health & 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.