



Revision Date: 03/09/2006

Issue date: 03/18/2006

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: 3163 ENCAP HARDENER 1QT CN
Product type: Epoxy Hardener
Company address: Henkel Corporation
1001 Trout Brook Crossing
Rocky Hill, Connecticut 06067

Item No.: 39964
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>
Amine reacted fatty acid 68953-36-6	60-100	None	None	None
Tetraethylenepentamine 112-57-2	10-30	None	None	5 mg/m ³ , skin, dermal sensitizer TWA, (WEEL)

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

HMIS:

Physical state: Liquid	HEALTH:	2*
Color: Amber	FLAMMABILITY:	1
Odor: Irritating, Ammoniacal	PHYSICAL HAZARD:	0
	Personal Protection:	See Section 8

WARNING: HARMFUL IF INHALED.
MAY CAUSE ALLERGIC SKIN REACTION.
MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.
MAY BE HARMFUL IF SWALLOWED.

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

Potential Health Effects

Inhalation: Harmful by inhalation. May cause irritation to nose and throat. Tightness of the chest. Coughing. Shortness of breath.

Skin contact: May cause skin irritation. May cause allergic skin reaction.

Eye contact: Moderate eye irritation. May cause corneal injury. Corneal edema may give appearance of "blue haze" or "fog" around lights. Conjunctivitis.

Ingestion: Contains material that may be slightly toxic.

Existing conditions aggravated by exposure: Eye, skin, and respiratory disorders. Pre-existing skin or lung allergies may increase the chance of developing exaggerated allergic symptoms from exposure to this product.

See Section 11 for additional toxicological information.

4. FIRST AID MEASURES

Inhalation:	Remove to fresh air. Administer oxygen or artificial respiration as needed. Get medical attention.
Skin contact:	After contact with skin, wash immediately with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms develop and persist.
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. Obtain medical attention.

5. FIRE-FIGHTING MEASURES

Flash point:	195°C (383°F)
Autoignition temperature:	Not determined
Flammable/Explosive limits-lower %:	Not determined
Flammable/Explosive limits-upper %:	Not determined
Extinguishing media:	Water spray (fog), foam, dry chemical or carbon dioxide. Dry sand. Limestone powder.
Special fire fighting procedures:	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.
Unusual fire or explosion hazards:	Decomposition and combustion products may be toxic.
Hazardous combustion products:	Ammonia. Toxic fumes. 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. Remove all sources of ignition. Scrape up spilled material and place in sealed container for disposal.

7. HANDLING AND STORAGE

Handling:	When using, do not eat, drink or smoke. Use only with adequate ventilation. Avoid contact with eyes, skin and clothing.
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:	Do not store near acids.

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.
Respiratory protection:	Use a NIOSH approved respirator if ventilation is inadequate.
Skin protection:	Heat and chemical resistant gloves. Nitrile gloves. Butyl rubber gloves.

Eye/face protection: Chemical splash goggles or safety glasses with side shields.

See Section 2 for exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid
Color: Amber
Odor: Irritating, Ammoniacal
Vapor pressure: <10.34 mmHg
pH: Not determined
Boiling point/range: >204.44°C (>400°F)
Melting point/range: Not applicable
Specific gravity: 0.95
Vapor density: 10.3 (air equals 1)
Evaporation rate: <0.1
Solubility in water: Soluble.
Partition coefficient (n-octanol/water): Not available
VOC content: <1%; <10 grams/liter (estimated)

10. STABILITY AND REACTIVITY

Stability: Stable at normal conditions

Hazardous polymerization: None known

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

Incompatibility: Nitrous acid and other nitrosating agents. Acids. Strong mineral acids. Oxidizing agents. This product slowly corrodes copper, aluminum, zinc and galvanized surfaces. 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.

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

11. TOXICOLOGICAL INFORMATION

Product toxicity data: Acute oral LD50 greater than 2000mg/kg (rat)(estimated). Acute LD50 (dermal) :Greater than 8550 mg/kg (rabbit).

Carcinogen Status

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Amine reacted fatty acid 68953-36-6	No	No	No
Tetraethylenepentamine 112-57-2	No	No	No

Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs
Amine reacted fatty acid 68953-36-6	No Records
Tetraethylenepentamine 112-57-2	Mutagen, Irritant, Allergen

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

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

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None

International Air Transportation (ICAO/IATA):

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None

Water Transportation (IMO/IMDG):

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None
Marine pollutant: None known

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, Delayed 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: D.2.A, D.2.B

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: 9

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