

Revision Number: 007.0

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1. PRODUCT AND COMPANY IDENTIFICATION

IDH number:

Product name:

Product type/use:

Restriction of Use:

Company address:

Rocky Hill, Connecticut 06067

Henkel Corporation

One Henkel Way

LOCTITE PE 3164 B known as Loctite (R) Encap(R) 3164 Epoxy Hardener Epoxy Hardener None identified

Item number:39970Region:United StatesContact information:Telephone: +1 (860) 571-5100MEDICAL EMERGENCY Phone: Poison Control Center1-877-671-4608 (toll free) or 1-303-592-1711TRANSPORT EMERGENCY Phone: CHEMTREC1-800-424-9300 (toll free) or 1-703-527-3887Internet: w ww.henkelna.com

233577

2. HAZARDS IDENTIFICATION

	EMERGENCY OVERVIEW
DANGER:	HARMFUL IF SWALLOWED OR IN CONTACT WITH SKIN.
	CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.
	MAY CAUSE AN ALLERGIC SKIN REACTION.
	MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS OR BREATHING
	DIFFICULTIES IF INHALED.
	SUSPECTED OF CAUSING CANCER.
	MAY DAMAGE FERTILITY OR THE UNBORN CHILD.

HAZARD CLASS	HAZARD CATEGORY
ACUTE TOXICITY ORAL	4
ACUTE TOXICITY DERMAL	4
SKIN CORROSION	1B
SERIOUS EYE DAMAGE	1
RESPIRATORY SENSITIZATION	1
SKIN SENSITIZATION	1
CARCINOGENICITY	2
REPRODUCTIVE TOXICITY	1B

PICTOGRAM(S)



Precautionary Statements

Prevention:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing vapors, mist, or spray. Wash affected area thoroughly after handling. Do not eat, drink or smoke w hen using this product. Contaminated w ork clothing should not be allow ed out of the w orkplace. Wear protective gloves, clothing, eye and face protection. In case of inadequate ventilation w ear respiratory protection.
Response:	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical attention. If skin irritation or rash occurs: Get medical attention. Wash contaminated clothing before reuse.
Storage: Disposal:	Store locked up. Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.
IDH number: 233577	Product name: LOCTITE PE 3164 B know n as Loctite(R) Encap(R) 3164 Epoxy Hardener Page 1 of 6

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CASNumber	Percentage*	
Di(2-ethylhexyl)phthalate	117-81-7	30 - 60	
4-nonylphenol, branched	84852-15-3	10 - 30	
N-Aminoethylpiperazine	140-31-8	10 - 30	
3,6-diazaoctanethylenediamin	112-24-3	5 - 10	
2-(2-aminoethylamino)ethanol	111-41-1	1 - 5	
Diethylenetriamine	111-40-0	1 - 5	
2-Piperazin-1-ylethanol	103-76-4	1 - 5	

* Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

4. FIRST AID MEASURES		
Inhalation:	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.	
Skin contact:	Remove contaminated clothing and footw ear. Immediately flush skin w ith plenty of w ater (using soap, if available). Get medical attention. Wash clothing before reuse. Thoroughly clean shoes 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.	
Symptoms:	See Section 11.	
5. FIRE FIGHTING MEASURES		
Extinguishing media:	Water spray (fog), foam, dry chemical or carbon dioxide.	
Special firefighting procedures:	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.	
Unusual fire or explosion hazards:	Burning produces obnoxious and toxic fumes. Personnel in vicinity and dow nwind should be evacuated. Use of water may result in the formation of very toxic aqueous solutions. Do not allow run-off from fire fighting to enter drains or water courses.	
Hazardous combustion products:	Oxides of carbon. Oxides of nitrogen. Aldehydes. Ammonia. Ketones. Nitric acid. Toxic fumes. Irritating vapors.	

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, is olate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions:	Do not allow product to enter sew er or waterways.
Clean-up methods:	Ensure adequate ventilation. Wear appropriate personal protective equipment. Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up. Soak up w ith inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, saw dust). Scrape up spilled material and place in a closed container for disposal.

7. HANDLING AND STORAGE

Handling:

Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Do not taste or sw allow. Use only with adequate ventilation. Keep container closed.

Storage:

Keep container tightly closed and in a cool, well-ventilated place aw ay from incompatible materials. Keep aw ay from heat, spark and flame.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Di(2-ethylhexyl)phthalate	5 mg/m3 TWA	5 mg/m3 PEL	None	None
4-nonylphenol, branched	None	None	None	None
N-Aminoethylpiperazine	None	None	None	None
3,6-diazaoctanethylenediamin	None	None	1 ppm (6 mg/m3) TWA (SKIN)	None
2-(2-aminoethylamino)ethanol	None	None	None	None
Diethylenetriamine	1 ppm TWA (SKIN)	None	None	None
2-Piperazin-1-ylethanol	None	None	None	None

Engineering controls:

Use local ventilation if general ventilation is insufficient to maintain vapor concentration below established exposure limits.

Respiratory protection:

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

Eye/face protection:

Safety goggles or safety glasses with side shields. Full face protection should be used if the potential for splashing or spraying of product exists.

Skin protection:

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Color: Odor: Odor threshold: pH: Vapor pressure: Boiling point/range: Meltingpoint/range: Specific gravity: Vapor density: Flash point: Flammable/Explosive limits - low er: Flammable/Explosive limits - upper: Autoignition temperature: Flam m ability: Evaporation rate: Solubility in water: Partition coefficient (n-octanol/water): VOC content: Viscosity: Decomposition temperature:

Low viscosity, Liquid Amber Ammoniacal Not available. Not available. 0.2 mm hg > 149 °C (> 300.2 °F) Not available. 1.0 118.33 °C (244.99 °F) Closed cup Not available. Not available. Not available. Not applicable < 0.1 (Ether = 1) Soluble Not available. < 1 %; < 10 g/l Estimated Not available. Not available.

10. STABILITY AND REACTIVITY

Hazardous reactions:None under normal prHazardous decomposition products:Oxides of carbon. Oxid Irritating vapors.	5
P	des of nitrogen. Aldehydes. Ammonia. Ketones. Nitric acid. Toxic fumes.
corrodes copper, alun	ds. Bases. Sodium hypochlorite. Reactive metals. This product slow ly ninum, zinc and galvanized surfaces. Do not mix this product with nitrites lents because a carcinogenic nitrosamine may be formed.
Reactivity: Not available.	
Conditions to avoid: Keep aw ay from heat,	ignition sources and incompatible materials.

11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure:

Skin, Inhalation, Eyes, Ingestion

Potential Health Effects/Symptoms

Inhalation:

Ingestion:

Mists, vapors or liquid may cause severe irritation or burns. May cause allergic respiratory reaction. Drow siness. Dizziness. Causes skin burns. May cause allergic skin reaction. Harmful in contact with skin. Skin contact: Eye contact: Causes serious eye damage. If ingested, severe burns of the mouth and throat may occur, as well as perforation of the esophagus and the stomach. Harmful if sw allowed.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Di(2-ethylhexyl)phthalate	Oral LD50 (Rabbit) = 33.9 g/kg Oral LD50 (Mouse) = > 30 g/kg Oral LD50 (Rat) = > 25 g/kg Dermal LD50 (Rabbit) = 25 g/kg	Central nervous system, Developmental, Kidney, Liver, Reproductive, Some evidence of carcinogenicity
4-nonylphenol, branched	None	Irritant, Corrosive
N-Aminoethylpiperazine	None	Irritant, Corrosive, Allergen
3,6-diazaoctanethylenediamin	None	Allergen, Corrosive, Developmental, Irritant, Mutagen
2-(2-aminoethylamino)ethanol	Oral LD50 (Rat) = 3,000 mg/kg	Irritant, Allergen
Diethylenetriamine	Oral LD50 (Rat) Approximate 1,140 mg/kg Oral LD50 (Rat) = 1,080 mg/kg Oral LD50 (Rat) = 2.33 g/kg	Allergen, Irritant, Eyes
2-Piperazin-1-ylethanol	None	Allergen, Central nervous system, Irritant

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Di(2-ethylhexyl)phthalate	Reasonably Anticipated to be a Human Carcinogen.	Group 2B	No
4-nonylphenol, branched	No	No	No
N-Aminoethylpiperazine	No	No	No
3,6-diazaoctanethylenediamin	No	No	No
2-(2-aminoethylamino)ethanol	No	No	No
Diethylenetriamine	No	No	No
2-Piperazin-1-ylethanol	No	No	No

12. ECOLOGICAL INFORMATION

Ecological information:

Not available.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal:

Hazardous waste number:

Follow all local, state, federal and provincial regulations for disposal.

It is the responsibility of the user to determine if an item is hazardous as defined in the Resource Conservation and Recovery Act (RCRA) at the time of disposal. Product uses, transformations, mixtures, processes, etc., may render the resulting material hazardous, under the criteria of ignitability, corrosivity, reactivity and toxicity characteristics of the Toxicity Characteristics Leaching Procedure (TCLP) 40 CFR 261.20-24.

14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to an y package/configuration. U.S. Department of Transportation Ground (49 CFR) Proper shipping name: Amines, liquid, corrosive, n.o.s. (Aminoethylpiperazine, Nonylphenol) Hazard class or division: 8 Identification number: UN 2735 Packing group: Ш Marine pollutant: Nonylphenol DOT Hazardous Substance(s): Diethylhexyl phthalate International Air Transportation (ICAO/IATA)

Proper shipping name:	Amines, liquid, corrosive, n.o.s. (Aminoethylpiperazine, Nonylphenol)
Hazard class or division:	8
Identification number:	UN 2735
Packing group:	III
Water Transportation (IMO/IMDG) Proper shipping name: Hazard class or division: Identification number: Packing group: Marine pollutant:	AMINES, LIQUID, CORROSIVE, N.O.S. (Aminoethylpiperazine, Nonylphenol) 8 UN 2735 III Nonylphenol

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status:	All components are listed as active or are exempt from listing on the Toxic Substances Control Act (TSCA) inventory.
TSCA 12 (b) Export Notification:	Alkylphenol (CAS# 84852-15-3).
CERCLA/SARA Section 302 EHS: CERCLA/SARA Section 311/312: CERCLA/SARA Section 313:	None above reporting de minimis. Immediate Health, Delayed Health This product contains the follow ing 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). Di(2-ethylhexyl)phthalate (CAS# 117-81-7). 4-nonylphenol, branched (CAS# 84852-15-3).
CERCLA Reportable quantity:	Di(2-ethylhexyl)phthalate (CAS#117-81-7) 100 lbs. (45.4 kg)
California Proposition 65:	This product contains a chemical know n in the State of California to cause cancer. This product contains a chemical know n to the State of California to cause birth defects or other reproductive harm.
Canada Regulatory Information	
CEPA DSL/NDSL Status:	All components are listed on or are exempt from listing on the Canadian Domestic Substances List.

16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: 2,3,8,11,15

Prepared by: Product Safety and Regulatory Affairs

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