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Safety Data Sheet

Revision Number: 012.0

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1. IDENTIFICATION

Product name: LOCTITE EA E-60NC 50ML PTB
Product type/ Recommended use: Part B of 2-Component Epoxy Adhesive.
Restriction of Use: None identified
Company address:
Henkel Corporation
One Henkel Way
Rocky Hill, Connecticut 06067

IDH number: 701990
Item number: 237113_209537
Region: United States
Contact information:
Telephone: +1 (860) 571-5100
MEDICAL EMERGENCY Phone: Poison Control Center
1-877-671-4608 (toll free) or 1-303-592-1711
TRANSPORT EMERGENCY Phone: CHEMTREC
1-800-424-9300 (toll free) or 1-703-527-3887
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1-800-424-9300 (toll free) or 1-703-527-3887
Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER: CORROSIVE TO THE RESPIRATORY TRACT.
H302 HARMFUL IF SWALLOWED.
H311 TOXIC IN CONTACT WITH SKIN.
H314 CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.
H317 MAY CAUSE AN ALLERGIC SKIN REACTION.
H330 FATAL IF INHALED.
H361 SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD.
H373 MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE.

HAZARD CLASS	HAZARD CATEGORY
ACUTE TOXICITY ORAL	4
ACUTE TOXICITY INHALATION	2
ACUTE TOXICITY DERMAL	3
SKIN CORROSION	1
SERIOUS EYE DAMAGE	1
SKIN SENSITIZATION	1
REPRODUCTIVE TOXICITY	2
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE	2

PICTOGRAM(S)



Precautionary Statements

Prevention:
P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P260 - Do not breathe vapors, mist, or spray.
P264 - Wash affected area thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P271 - Use only outdoors or in a well-ventilated area.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P280 - Wear protective gloves, clothing, eye and face protection.
P284 - [In case of inadequate ventilation] wear respiratory protection.

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Response:	P301+P312+P330 - IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth. P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. P304+P340+P310 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 - IF exposed or concerned: Get medical attention. P333+P313 - If skin irritation or rash occurs: Get medical attention. P361+P364 - Take off immediately all contaminated clothing and wash it before reuse.
Storage:	P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P405 - Store locked up.
Disposal:	P501 - Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

Other hazards Not available.

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)	CAS Number	Weight %*
4-nonylphenol, branched	84852-15-3	30 - 60
2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine)	6864-37-5	30 - 60
benzyl alcohol	100-51-6	5 - 10
Phenol, 2-nonyl-, branched	91672-41-2	1 - 5
N-(3-(Trimethoxysilyl)propyl)ethylenediamine	1760-24-3	0.1 - 1

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

4. FIRST AID MEASURES

First Aid Measures by likely routes of exposure

Inhalation:	Move 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 footwear. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
Eye contact:	Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Seek medical attention at once.
Ingestion:	DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get immediate medical attention.
Most important symptoms and effects (acute and delayed):	The most important known symptoms and effects, both acute and delayed, are described in Section 11: Toxicological Information.
Indication of any immediate medical attention / special treatment needed:	Not available.

5. FIRE FIGHTING MEASURES

Extinguishing media:	Water spray (fog), foam, dry chemical or carbon dioxide.
Improper extinguishing agents:	Not available.
Special firefighting procedures:	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

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Unusual fire or explosion hazards: Burning produces obnoxious and toxic fumes. Personnel in vicinity and downwind 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. Acids. Aldehydes. Ammonia. Ketones. Nitric acid. Toxic fumes. Irritating vapors.

6. ACCIDENTAL RELEASE MEASURES

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

Environmental precautions: Do not allow product to enter sewer 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 with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). 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 swallow. Use only with adequate ventilation. Keep container closed.

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

Shelf Life Statement: Not available.

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
benzyl alcohol	None	None	10 ppm (44.20 mg/m3) TWA	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: Liquid
Color: Light yellow
Odor: Mild
Odor threshold: Not available.
pH: 10 - 12
Vapor pressure: < 700 mbar (20 °C (68°F))
Boiling point/range: > 93 °C (> 199.4 °F)1,013 hPa
Melting point/ range: Not applicable, Product is a liquid
Density/Relative density: Not available.
Relative vapor density: > 1 20 °C
Flash point: > 93 °C (> 199.4 °F) Setaflash Closed Cup
Flammable/Explosive limits - lower: Not available.
Flammable/Explosive limits - upper: Not available.
Autoignition temperature: Not available.
Flammability: The product is not flammable.

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Evaporation rate:	Not available.
Solubility:	Largely insoluble. Water
Partition coefficient n-octanol/water (logarithmic value):	Not available.
VOC content:	< 1 %; < 10 g/l Estimated
Dynamic viscosity:	Not available.
Kinematic viscosity:	> 20.5 mm2/s
Particle characteristics:	Not applicable, Product is a liquid
Decomposition temperature:	Not available.

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions of storage and use.
Hazardous reactions:	None under normal processing.
Hazardous decomposition products:	Oxides of carbon. Oxides of nitrogen. Acids. Aldehydes. Ammonia. Ketones. Nitric acid. Toxic fumes. Irritating vapors.
Incompatible materials:	Organic acids. Mineral acids. Oxidizing agents. Peroxides. Sodium hypochlorite. This product slowly corrodes copper, aluminum, zinc and galvanized surfaces.
Reactivity:	Not available.
Conditions to avoid:	Keep away from heat, ignition sources and incompatible materials.

11. TOXICOLOGICAL INFORMATION

Likely routes of exposure:	Skin, Inhalation, Eyes, Ingestion

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Potential Health Effects/Symptoms

Inhalation: Mists, vapors or liquid may cause severe irritation or burns. May be harmful or fatal if inhaled.
Skin contact: Causes skin burns. May cause allergic skin reaction. Toxic in contact with skin.
Eye contact: Causes serious eye damage.
Ingestion: May cause burns of mouth, throat and stomach with abdominal and chest pain, nausea, vomiting, diarrhea, thirst, weakness and collapse. Harmful if swallowed.

Hazardous Component(s)	LD50s and LC50s
4-nonylphenol, branched	None
2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine)	Inhalation LC50 (Rat, 4 h) = 0.42 mg/l Inhalation LC50 (Rat, 4 h) = 0.44 mg/l Inhalation LC50 (Rat, 4 h) = 0.4 mg/l
benzyl alcohol	Oral LD50 (Mouse) = 1,580 mg/kg Oral LD50 (Rat) = 1,230 - 3,100 mg/kg Oral LD50 (Rabbit) = 1,940 mg/kg Oral LD50 (Rat) = 3,100 mg/kg Dermal LD50 (Rabbit) = 2,000 mg/kg Inhalation LC50 (Rat, 4 h) = 8.8 mg/l Inhalation LC50 (Rat, 4 h) = > 4,178 mg/l
Phenol, 2-nonyl-, branched	None
N-(3-(Trimethoxysilyl)propyl)ethylenediamine	Inhalation LC50 (Rat, 4 h) = > 1.49 - < 2.44 mg/l

Hazardous Component(s)	Immediate Health Effects	Delayed Health Effects	Chronic Health Effects
4-nonylphenol, branched	Irritant Corrosive		
2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine)	Corrosive Irritant		Brain Liver Lung Muscle Skin
benzyl alcohol	Corrosive Irritant	Allergen	Central nervous system
Phenol, 2-nonyl-, branched			
N-(3-(Trimethoxysilyl)propyl)ethylenediamine	Irritant	Allergen	

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
4-nonylphenol, branched	No	No	No
2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine)	No	No	No
benzyl alcohol	No	No	No
Phenol, 2-nonyl-, branched	No	No	No
N-(3-(Trimethoxysilyl)propyl)ethylenediamine	No	No	No

12. ECOLOGICAL INFORMATION

Ecological information: Not available.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Follow all local, state, federal and provincial regulations for disposal.

14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any packaging.

U.S. Department of Transportation Ground (49 CFR)
Proper shipping name: Corrosive liquids, toxic, n.o.s. (cycloaliphatic amine, Nonylphenol)
Hazard class or division: 8 (6.1)
Identification number: UN 2922
Packing group: II
Marine pollutant: Nonylphenol

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International Air Transportation (ICAO/IATA)

Proper shipping name:	Corrosive liquid, toxic, n.o.s. (cycloaliphatic amine, Nonylphenol)
Hazard class or division:	8 (6.1)
Identification number:	UN 2922
Packing group:	II

Water Transportation (IMO/IMDG)

Proper shipping name:	CORROSIVE LIQUID, TOXIC, N.O.S. (cycloaliphatic amine, Nonylphenol)
Hazard class or division:	8 (6.1)
Identification number:	UN 2922
Packing group:	II
Marine pollutant:	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:	Alkyl phenol (CAS# 84852-15-3).Phenol, 2-nonyl-, branched (CAS# 91672-41-2).
CERCLA/SARA Section 302 EHS:	Ethylene diamine (CAS# 107-15-3).
CERCLA/SARA Section 311/312:	Please refer to the GHS classification in Section 2
CERCLA/SARA Section 313:	This product contains the following 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). 4-nonylphenol, branched (CAS# 84852-15-3). Phenol, 2-nonyl-, branched (CAS# 91672-41-2).
California Proposition 65:	This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Canada Regulatory Information

CEPA DSL/NDSL Status:	Contains one or more components listed on the Non-Domestic Substances List. All other components are listed on or are exempt from listing on the Domestic Substances List. Components listed on the NDSL must be tracked by all Canadian Importers of Record as required by Environment Canada. They may be imported into Canada in limited quantities. Please contact Regulatory Affairs for additional details.

16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: 2,3,9,11,15

Prepared by: Product Safety and Regulatory Affairs

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