

Revision Number: 004.0 Issue date: 02/10/2020

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: LOCTITE PE 3165 known as LOCTITE IDH number: 232860
3165 HDN

Product type/use:Epoxy HardenerItem number:39395Restriction of Use:None identifiedRegion:United States

Company address:Contact information:Henkel CorporationTelephone: +1 (860) 571-5100

One Henkel Way MEDICAL EMERGENCY Phone: Poison Control Center Rocky Hill, Connecticut 06067 1-877-671-4608 (toll free) or 1-303-592-1711

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

Internet: www.henkelna.com

## 2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER: HARMFUL IF SWALLOWED.
CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.

MAY CAUSE AN ALLERGIC SKIN REACTION.

MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS OR BREATHING

DIFFICULTIES IF INHALED.

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

### PICTOGRAM(S)



#### **Precautionary Statements**

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Prevention: Avoid breathing vapors, mist, or spray. Wash affected area thoroughly after handling. Do not

eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, clothing, eye and face protection. In case of

inadequate ventilation wear 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 skin irritation or rash occurs: Get medical attention. If experiencing respiratory symptoms: Call a

poison center or physician. Wash contaminated clothing before reuse.

Storage: Store locked up.

Disposal: Dispose of contents and/or container according to Federal, State/Provincial and local

governmental regulations.

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	Percentage*	
4,4'-Methylenebis(cyclohexylamine)	1761-71-3	30 - 60	
3,6-diazaoctanethylenediamin	112-24-3	30 - 60	
1,2-Ethanediamine, N1,N1-bis(2-aminoethyl)-	4097-89-6	5 - 10	
Tetraethylene pentamine	112-57-2	0.1 - 1	
Diethylenetriamine	111-40-0	0.1 - 1	

<sup>\*</sup> 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 breathing is difficult, give oxygen. If not breathing, give

artificial respiration. Get medical attention.

Skin contact: Remove contaminated clothing and footwear. Immediately flush skin with

plenty of water (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: Personnel in vicinity and downwind should be evacuated. Burning produces

obnoxious and toxic fumes. Do not allow run-off from fire fighting to enter drains or water courses. Use of water may result in the formation of very

toxic aqueous solutions.

Hazardous combustion products: Oxides of carbon. Oxides of nitrogen. Ammonia. 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. Do not store in

reactive metal containers. Avoid moisture.

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# 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
4,4'-Methylenebis(cyclohexylamine)	None	None	None	None
3,6-diazaoctanethylenediamin	None	None	1 ppm (6 mg/m3) None TWA (SKIN)	
1,2-Ethanediamine, N1,N1-bis(2-aminoethyl)-	None	None	None	None
Tetraethylene pentamine	None	1 ppm (5 mg/m3) TWA Aerosol. (SKIN) Aerosol. (Skin sensitizer)		None
Diethylenetriamine	1 ppm TWA (SKIN)	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: Low viscosity, Liquid

Color: Amber
Odor: Ammoniacal
Odor threshold: Not available.
pH: Not available.
Vapor pressure: 0.2 mm hg

Boiling point/range: > 149 °C (> 300.2 °F)

Melting point/ range:Not available.Specific gravity:1

Vapor density: 1.0

Flash point: 118.33 °C (244.99 °F) Closed cup

Flammable/Explosive limits - lower:
Flammable/Explosive limits - upper:
Autoignition temperature:
Flammability:
Flammability:
Evaporation rate:
Solubility in water:
Partition coefficient (n-octanol/water):
Not available.
Not available.
Soluble
Not available.

VOC content: < 1 %; < 10 g/l Estimated

Viscosity:Not available.Decomposition temperature:Not available.

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# 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. Ammonia. Nitric acid. Toxic fumes. Irritating vapors.

Incompatible materials: Acids. Oxidizing agents. Sodium hypochlorite. Reaction with peroxides may result in violent

decomposition of peroxide possibly creating an explosion. 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. Avoid moisture.

### 11. TOXICOLOGICAL INFORMATION

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

#### **Potential Health Effects/Symptoms**

**Inhalation:** Mists, vapors or liquid may cause severe irritation or burns. May cause allergic respiratory

reaction.

**Skin contact:** Causes skin burns. May cause allergic skin reaction.

**Eye contact:** Causes serious eye damage.

Ingestion: If ingested, severe burns of the mouth and throat may occur, as well as perforation of the

esophagus and the stomach. Harmful if swallowed.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
4,4'-Methylenebis(cyclohexylamine)	None	Irritant, Allergen
3,6-diazaoctanethylenediamin	None Allergen, Corrosive, Development Mutagen	
1,2-Ethanediamine, N1,N1-bis(2-aminoethyl)-	None	No Data
Tetraethylene pentamine	Oral LD50 (Rat) = 3.99 g/kg Oral LD50 (Rat) = 2.1 g/kg Dermal LD50 (Rabbit) = 0.66 g/kg	Irritant, Mutagen, 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

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
4,4'-Methylenebis(cyclohexylamine)	No	No	No
3,6-diazaoctanethylenediamin	No	No	No
1,2-Ethanediamine, N1,N1-bis(2-aminoethyl)-	No	No	No
Tetraethylene pentamine	No	No	No
Diethylenetriamine	No	No	No

### 12. ECOLOGICAL INFORMATION

**Ecological information:** Do not empty into drains / surface water / ground water.

### 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

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

**Hazardous waste number:** 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 any package/configuration.

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

Proper shipping name: Polyamines, liquid, corrosive, n.o.s. (Triethylenetetramine, 4,4-methylenebis-

cyclohexylamine)

Hazard class or division: 8
Identification number: UN 2735

Packing group:

International Air Transportation (ICAO/IATA)

Proper shipping name: Polyamines, liquid, corrosive, n.o.s. (Triethylenetetramine, 4,4-methylenebis-

cyclohexylamine)

Hazard class or division: 8

Identification number: UN 2735
Packing group: II

Water Transportation (IMO/IMDG)

Proper shipping name: POLYAMINES, LIQUID, CORROSIVE, N.O.S. (Triethylenetetramine, 4,4-

methylenebis-cyclohexylamine)

Hazard class or division: 8
Identification number: UN 2735

Packing group:

Marine pollutant: 4,4-methylenebis-cyclohexylamine

## 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: None above reporting de minimis

CERCLA/SARA Section 302 EHS:
CERCLA/SARA Section 311/312:
CERCLA/SARA Section 313:

None above reporting de minimis.
Immediate Health, Delayed Health
None above reporting de minimis.

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 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

**Issue date:** 02/10/2020

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