

Revision Number: 003.0

Issue date: 11/12/2014

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Product type:

LOCTITE EA E-310 CR320ML EN/FR

One-part epoxy Restriction of Use: None identified

Company address: Henkel Corporation One Henkel Way

Rocky Hill, Connecticut 06067

IDH number:

Item number:

2065826 2065826 United States

Region: Contact information:

Telephone: (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

Internet: www.henkelna.com

## 2. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW** 

WARNING: CAUSES SKIN IRRITATION.

MAY CAUSE AN ALLERGIC SKIN REACTION.

CAUSES SERIOUS EYE IRRITATION.

MAY CAUSE DROWSINESS OR DIZZINESS

SKIN IRRITATION HAZARD CLASS	HAZARD CATEGORY
EYE IRRITATION	2
SKIN SENSITIZATION	2A
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	1
THE STATE OF THE PARTY OF THE P	3

PICTOGRAM(S)



#### Precautionary Statements

Prevention:

Avoid breathing vapors, mist, or spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace.

Wear eye and face protection. Wear protective gloves.

Response:

IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove person to fresh air and

keep comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing. Call a poison control center or physician if you feel unwell. If skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical attention. Take off contaminated clothing.

Storage: Disposal: Store in a well-ventilated place. Keep container tightly closed. Store locked up. 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.

IDH number: 2065826

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## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Percentage*	
Epoxy resin	Proprietary	rorcentage	
Aluminum		30 - 60	
Epoxy resin	7429-90-5	30 - 60	
	Proprietary	5 - 10	
Epoxy resin	Proprietary	5 - 10	
Glycidyl ester	Proprietary		
Treated fumed silica	67762-90-7	1 - 5	
Silicon dioxide		1 - 5	
amount dioxide	7631-86-9	1 - 5	

<sup>\*</sup> Exact percentage is a 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. If symptoms develop and persist, get medical attention.

Skin contact: Immediately flush skin with plenty of water (using soap, if available). Remove

contaminated clothing and footwear. If symptoms develop and persist, get medical attention. Wash clothing before reuse. Thoroughly clean shoes before

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. Water may be unsuitable as an extinguishing media, but may be helpful in keeping adjacent containers cool.

Unusual fire or explosion hazards:

Closed containers may rupture (due to build up of pressure) when exposed to

extreme heat.

Hazardous combustion products: Oxides of carbon. Oxides of nitrogen. Oxides of silicon. Aldehydes. Amines. Hydrogen cyanide. Isocyanates. Phenolics. 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

**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. 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. Protect from

direct sunlight.

# 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
Epoxy resin	None	None	None	
Aluminum	1 mg/m3 TWA Respirable fraction.	5 mg/m3 PEL (as Al) Respirable dust. 15 mg/m3 PEL (as Al) Total dust.	None	None
Epoxy resin	None	None	None	N.
Epoxy resin	None	None		None
Glycidyl ester	None		None	None
		None	None	None
Treated fumed silica	10 mg/m3 TWA Inhalable dust. 3 mg/m3 TWA Respirable fraction.	15 mg/m3 TWA Total dust. 5 mg/m3 TWA Respirable fraction.	None	None
Silicon dioxide	6 mg/m3 TWA	20 MPPCF TWA 0.8 mg/m3 TWA	None	3 mg/m3 TWA Respirable fraction

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: Paste, Liquid Color: Silver Odor: Slight Odor threshold:

Not available. pH: Not available. Vapor pressure: Not available.

Boiling point/range: > 200 °C (> 392°F) no method

Melting point/ range: Not available. Specific gravity: 1.38 Vapor density:

Flash point: > 100 °C (> 212°F) Setaflash Closed Cup Flammable/Explosive limits - lower:

Not available. Flammable/Explosive limits - upper: Not available. Autoignition temperature: Not available. Evaporation rate: Not available. Solubility in water: Insoluble Partition coefficient (n-octanol/water): Not available. VOC content: Not available.

Viscosity: Not available Decomposition temperature:

Not available.

## 10. STABILITY AND REACTIVITY

Stability:

Stable under normal conditions of storage and use.

Hazardous reactions:

None under normal processing. Polymerization may occur at elevated temperature or in the

presence of incompatible materials.

Hazardous decomposition

products:

Oxides of carbon. Oxides of nitrogen. Oxides of silicon. Aldehydes. Amines. Hydrogen

cyanide. Isocyanates. Phenolics. Toxic fumes. Irritating vapors.

Incompatible materials:

Acids. Bases. Oxidizing agents. Mercaptans. Amines.

Reactivity:

Not available.

Conditions to avoid:

Keep away from heat, ignition sources and incompatible materials. Protect from direct sunlight.

### 11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure:

Skin, Inhalation, Eyes

#### Potential Health Effects/Symptoms

Inhalation:

Inhalation of vapors or mists of the product may be irritating to the respiratory system. Drowsiness. Dizziness.

Skin contact:

Causes skin irritation. May cause allergic skin reaction.

Eye contact:

Causes serious eye irritation.

Ingestion:

Not expected under normal conditions of use.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Epoxy resin	N.	and Belayed Health Ellects
Aluminum	None	Allergen, Irritant
· variation	None	Central nervous system, Irritant, Lung
Epoxy resin	Oral LD50 (RABBIT) = 1,980 mg/kg Oral LD50 (RAT) = > 1,000 mg/kg Dermal LD50 (RABBIT) = 20 mg/kg Dermal LD50 (RAT) = > 1,600 mg/kg	Allergen, Central nervous system, Irritant, Liver, Respiratory
Epoxy resin	None	
Glycidyl ester		Irritant, Allergen
reated fumed silica	None	Irritant, Allergen
Silicon dioxide	None	Irritant
	Oral LD50 (RAT) = > 22,500 mg/kg	Nuisance dust

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Epoxy resin	No	No	
Aluminum	No	No	No
Epoxy resin	No		No
Epoxy resin		No	No
Glycidyl ester	No	No	No
Treated fumed silica	No	No	No
	No	No	
Silicon dioxide	No	No	No
		INO	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.

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

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

Proper shipping name:

Not regulated (Up to 5 L max per inner/primary package when shipped as originally

packaged only)

Hazard class or division:

None None

Identification number: Packing group:

None

International Air Transportation (ICAO/IATA)

Proper shipping name:

Environmentally hazardous substance, liquid, n.o.s. (Bisphenol-A Epichlorhydrin

resin) (Up to 5 L max per inner/primary package when shipped as originally packaged only)

Hazard class or division:

Identification number:

UN 3082

Packing group:

III

Water Transportation (IMO/IMDG)

Proper shipping name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol-A Epichlorhydrin resin) (Up to 5 L max per inner/primary package when shipped as

originally packaged only)

Hazard class or division:

Identification number:

Packing group:

UN 3082

111

Marine pollutant: Bisphenol-A Epichlorhydrin resin

### 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 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

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). Aluminum (CAS# 7429-90-5).

California Proposition 65:

This product contains a chemical known in the State of California to cause cancer. 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:

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: New Safety Data Sheet format.

Prepared by:

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11/12/2014

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