Revision Number: 003.0 Issue date: 08/12/2014

1. PRODUCT AND COMPANY IDENTIFICATION

LOCTITE EA E-4100 known as **Product name:**

LOCTITE E-4100 5KG CAN

Product type: Epoxy resin Restriction of Use: Company address:

None identified

IDH number: 1215344

Region: **United States**

Contact information: Telephone:

Emergency Telephone:

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

WARNING: CAUSES SKIN IRRITATION.

MAY CAUSE AN ALLERGIC SKIN REACTION.

CAUSES SERIOUS EYE IRRITATION.

HAZARD CLASS	HAZARD CATEGORY
SKIN IRRITATION	2
EYE IRRITATION	2A
SKIN SENSITIZATION	1

PICTOGRAM(S)



Precautionary Statements

Avoid breathing vapors, mist, or spray. Wash thoroughly after handling. Contaminated work Prevention:

clothing should not be allowed out of the workplace. Wear eye and face protection. Wear

protective gloves.

IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for Response:

several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing. If skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical

attention. Take off contaminated clothing.

Storage: Not prescribed

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*	
Epoxy resin	Proprietary	30 - 60	
Limestone	1317-65-3	10 - 30	
Aluminum	7429-90-5	5 - 10	
Treated fumed silica	67762-90-7	1 - 5	
Modified epoxy resin	Proprietary	1 - 5	

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Epoxy resin	Proprietary	1 - 5
Diuron	330-54-1	0.1 - 1
Quartz (SiO2)	14808-60-7	0.1 - 1
Substituted silane	Proprietary	0.1 - 1

^{*} 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 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.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, 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: In case of fire, keep containers cool with water spray. Closed containers may

rupture (due to build up of pressure) when exposed to extreme heat.

Hazardous combustion products: Oxides of carbon. Irritating organic fragments. Aldehydes. Acids.

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: Remove all sources of ignition. Immediately contact emergency personnel.

Evacuate and ventilate spill area; dike spill to prevent entry into water system; wear full protective equipment during clean-up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Scrape up as much material as possible. Clean residue with soap and water. Store in a partly filled, closed container until disposal. Refer to Section 8 "Exposure

Controls / Personal Protection" prior to clean up.

7. HANDLING AND STORAGE

Handling: Use only with adequate ventilation. Prevent contact with eyes, skin and

clothing. Do not breathe vapor and mist. Wash thoroughly after handling.

Keep container closed. Refer to Section 8.

Storage: Store in original container until ready to use. Keep container tightly closed and

in a cool, well-ventilated place away from incompatible materials.

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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
Epoxy resin	None	None	None	None
Limestone	10 mg/m3 TWA Total dust.	5 mg/m3 PEL Respirable fraction. 15 mg/m3 PEL Total dust.	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
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
Modified epoxy resin	None	None	None	None
Epoxy resin	None	None	None	None
Diuron	10 mg/m3 TWA	None	None	None
Quartz (SiO2)	0.025 mg/m3 TWA Respirable fraction.	2.4 MPPCF TWA Respirable. 0.1 mg/m3 TWA Respirable. 0.3 mg/m3 TWA Total dust.	None	None
Substituted silane	None	None	None	None

Engineering controls: Provide adequate local exhaust ventilation to maintain worker exposure below

exposure limits.

Respiratory protection: Use a NIOSH approved air-purifying respirator if the potential to exceed

established exposure limits exists.

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. Safety

showers and eye wash stations should be available.

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:LiquidColor:GrayOdor:NegligibleOdor threshold:Not available.pH:Not applicable

 Vapor pressure:
 Negligible vapor pressure at ambient temperatures.

Boiling point/range:

Melting point/ range:

Specific gravity:

Vapor density:

Not determined
Not available.

1.3

Not available.

Flash point: > 93.33 °C (> 199.99 °F) Setaflash Closed Cup

Flammable/Explosive limits - lower:
Flammable/Explosive limits - upper:
Autoignition temperature:
Evaporation rate:
Solubility in water:
Partition coefficient (n-octanol/water):
VOC content:
Not available.
Not available.
Not available.
O %; 0 g/l

Viscosity:

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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.

Hazardous decomposition

products:

Oxides of carbon. Irritating organic fragments. Acids. Aldehydes.

Incompatible materials: Strong acids. Strong bases. Strong oxidizing agents. Amines. Water.

Reactivity: Not available.

Conditions to avoid: Store away from incompatible materials. Elevated temperatures. Heat, flames, sparks and

other sources of ignition.

11. TOXICOLOGICAL INFORMATION

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

Potential Health Effects/Symptoms

Inhalation: May cause irritation to nose and throat. Inhalation of vapors or mists of the product may be

irritating to the respiratory system.

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

Eye contact: Causes serious eye irritation.

Ingestion: May cause gastrointestinal tract irritation if swallowed.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects Allergen, Irritant	
Epoxy resin	None		
Limestone	None	Nuisance dust	
Aluminum	None	Central nervous system, Irritant, Lung	
Treated fumed silica	None	Irritant	
Modified epoxy resin	None	Irritant, Allergen	
Epoxy resin	None	Irritant, Allergen	
Diuron	Oral LD50 (RAT) = 3,400 mg/kg Oral LD50 (RAT) = 1,017 mg/kg	Irritant, Developmental, Liver	
Quartz (SiO2)	None	Immune system, Lung, Some evidence of carcinogenicity	
Substituted silane	None	Allergen, Irritant	

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Epoxy resin	No	No	No
Limestone	No	No	No
Aluminum	No	No	No
Treated fumed silica	No	No	No
Modified epoxy resin	No	No	No
Epoxy resin	No	No	No
Diuron	No	No	No
Quartz (SiO2)	Known To Be Human Carcinogen.	Group 1	No
Substituted silane	No	No	No

12. ECOLOGICAL INFORMATION

Ecological information: Not available.

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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: Not a RCRA hazardous waste.

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: Not regulated (Up to 5 gallons max per inner/primary package when shipped as

originally packaged only)

Hazard class or division: None Identification number: None 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 gallons max per inner/primary package when shipped as originally

packaged only)

Hazard class or division: Identification number: UN 3082 Ш

Packing group:

Water Transportation (IMO/IMDG) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol-A Proper shipping name:

Epichlorhydrin resin) (Up to 5 gallons max per inner/primary package when shipped

as originally packaged only)

Hazard class or division: Identification number: UN 3082

Packing group:

Bisphenol-A Epichlorhydrin resin Marine pollutant:

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: None above reporting de minimis CERCLA/SARA Section 311/312: Immediate Health, Delayed Health 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). Aluminum (CAS# 7429-90-5).

CERCLA Reportable quantity: Diuron (CAS# 330-54-1) 100 lbs. (45.4 kg)

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

IDH number: 1215344

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: Regulatory Affairs

IDH number: 1215344

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