

The following SDS references the products below:

LOCTITE EA 445 RESIN

Vendor Item Number: 701930

Manufactured By:

Henkel Corporation

Distributed by Kimball Midwest with the KM productidentification number:

<u>80-170</u>

Safety Data Sheet



Revision Number: 007.1

1. PRODUCT AND COMPANY IDENTIFICATION

Product name:

Product type: Restriction of Use: Company address: Henkel Corporation One Henkel Way Rocky Hill, Connecticut 06067

LOCTITE EA 445 RESIN known as Fast IDH number: **Cure Epoxy RESIN** Epoxy resin None identified

701930

Item number: 21425 150345 United States Region: **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 Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

WARNING:

CAUSES SKIN IRRITATION. MAY CAUSE AN ALLERGIC SKIN REACTION. CAUSES SERIOUS EYE IRRITATION.

EMERGENCY OVERVIEW

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



Precautionary Statements

-	
Prevention:	Avoid breathing vapors, mist, or spray. Wash affected area thoroughly after handling.
	Contaminated work clothing should not be allowed out of the workplace. Wear protective
	gloves, eye protection, and face protection.
Response:	IF ON SKIN: Wash with plenty of water. 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 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.

COMPOSITION / INFORMATION ON INGREDIENTS 3.

Hazardous Component(s)	CAS Number	Percentage*	
Epichlorohydrin-4,4'-isopropylidene diphenol resin	25068-38-6	40 - 50	
Aluminium hydroxide	21645-51-2	40 - 50	
Titanium dioxide	13463-67-7	5 - 10	
Bisphenol A, polymer with formaldehyde and epichlorohydrin	28906-96-9	1 - 5	
Ethylene glycol	107-21-1	0.1 - 1	
Distillates, petroleum, heavy thermal cracked	64741-81-7	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			
Inhalation:	Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. 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:	Rinse immediately with plenty of water, also under the eyelids, for at least 1 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. F	IRE 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 a turn-out gear. In case of fire, keep containers cool with water spray.		
Unusual fire or explosion hazards:	Closed containers may rupture (due to build up of pressure) when exposed extreme heat.		
Hazardous combustion products:	Oxides of carbon. Acids. Aldehydes. 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:	Remove all sources of ignition. Evacuate and ventilate spill area; dike spill to prevent entry into water system; wear full protective equipment during clean- up. 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. Refer to Section 8.

Storage:

Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials. Keep away from heat, spark and flame. Store in original container until ready to use.

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
Epichlorohydrin-4,4'-isopropylidene diphenol resin	None	None	None	None
Aluminium hydroxide	1 mg/m3 TWA Respirable fraction. 10 mg/m3 TWA (as Al) Total dust.	15 mg/m3 TWA (as Al) Total dust. 5 mg/m3 TWA (as Al) Respirable fraction. 15 MPPCF TWA Respirable fraction. 15 mg/m3 TWA Total dust. 5 mg/m3 TWA Respirable fraction. 50 MPPCF TWA Total dust.	None	None
Titanium dioxide	10 mg/m3 TWA	15 mg/m3 PEL Total dust. 15 MPPCF TWA Respirable fraction. 15 mg/m3 TWA Total dust. 50 MPPCF TWA Total dust. 5 mg/m3 TWA Respirable fraction.	None	None
Bisphenol A, polymer with formaldehyde and epichlorohydrin	None	None	None	None
Ethylene glycol	25 ppm TWA Vapor fraction 50 ppm STEL Vapor fraction 10 mg/m3 STEL Aerosol, inhalable.	None	None	None
Distillates, petroleum, heavy thermal cracked	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: Color: Odor: Odor threshold: pH: Vapor pressure: Boiling point/range: Melting point/ range: Specific gravity: Vapor density: Flash point: Flammable/Explosive limits - lower: Flammable/Explosive limits - upper: Autoignition temperature: Flammability:	Paste White Mild Not available. Not applicable Negligible > 149 °C (> 300.2 °F) Not available. 1.68 Not available. > 93 °C (> 199.4 °F) Tagliabue closed cup Not available. Not available. Not available. Not available. Not available. Not available. Not available.
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Decomposition temperature.	INUL AVAIIADIE.

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions of storage and use.
Hazardous reactions:	Reaction with some curing agents may produce an exothermic reaction which in large masses could cause runaway polymerization.
Hazardous decomposition products:	Oxides of carbon. Acids. Aldehydes. Irritating vapors.
Incompatible materials:	Strong bases. Strong oxidizing agents. Strong acids.
Reactivity:	Not available.
Conditions to avoid:	Keep away from heat, ignition sources and incompatible materials. Note: Heating the epoxy resin in this product above 148.9 °C (300 °F) in the presence of air may cause slow oxidative decomposition. Above 260 °C (500 °F) polymerization of the epoxy resin may occur. Aliphatic polyamines can produce exothermic reactions with epoxy resins which in large masses can cause runaway polymerization and charring of the reactants. Fumes and vapors from these thermal and chemical decompositions vary widely in composition and toxicity. Do not breathe fumes.

11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure:

Skin, Inhalation, Eyes, Ingestion

Potential Health Effects/Symptoms

Inhalation:	May cause respiratory tract irritation.
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 Hea		
Epichlorohydrin-4,4'-isopropylidene diphenol resin	None	Allergen, Irritant	
Aluminium hydroxide	Oral LD50 (Rat) = > 5,000 mg/kg	Irritant, Lung, Respiratory	
Titanium dioxide	None	Irritant, Respiratory, Some evidence of carcinogenicity	
Bisphenol A, polymer with formaldehyde and epichlorohydrin	None	Irritant, Allergen	
Ethylene glycol	Oral LD50 (Rat) = 5.89 g/kg Oral LD50 (Mouse) = 14.6 g/kg Dermal LD50 (Rabbit) = 9,530 mg/kg	Blood, Bone Marrow, Central nervous system, Developmental, Eyes, Irritant, Kidney, Liver, Metabolic	
Distillates, petroleum, heavy thermal cracked	None	No Target Organs	

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Epichlorohydrin-4,4'-isopropylidene diphenol resin	No	No	No
Aluminium hydroxide	No	No	No
Titanium dioxide	No	Group 2B	No
Bisphenol A, polymer with formaldehyde and epichlorohydrin	No	No	No
Ethylene glycol	No	No	No
Distillates, petroleum, heavy thermal cracked	No	Group 2B	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.

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
Hazard class or division:	None
Identification number:	None
Packing group:	None

International Air Transportation (ICAO/IATA) Proper shipping name: Hazard class or division: Identification number: Packing group:	Environmentally hazardous substance, liquid, n.o.s. (Epoxy resin) 9 UN 3082 III
Water Transportation (IMO/IMDG) Proper shipping name: Hazard class or division: Identification number: Packing group: Marine pollutant:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resin) 9 UN 3082 III Epoxy resin

15. REGULATORY INFORMATION

United States Regulatory Information

	16 OTHER INFORMATION
CEPA DSL/NDSL Status:	All components are listed on or are exempt from listing on the Canadian Domestic Substances List.
Canada Regulatory Information	
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.
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.
TSCA 12 (b) Export Notification:	None above reporting de minimis
TSCA 8 (b) Inventory Status:	All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.

16. UTHER INFORMATION

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

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