Safety Data Sheet



Revision Number: 005.0 Issue date: 06/16/2023

PRODUCT AND COMPANY IDENTIFICATION

LOCTITE E 1216M known as LOCTITE Product name:

E1216M (-20C)55cc E/C/J

Product type/use: Underfill Restriction of Use: None identified

Company address: Henkel Corporation

One Henkel Way

Rocky Hill, Connecticut 06067

IDH number: 1873230

Item number: 45577 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

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 RESPIRATORY IRRITATION.		

HAZARD CLASS	HAZARD CATEGORY
SKIN IRRITATION	2
EYE IRRITATION	2A
SKIN SENSITIZATION	1
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	3

PICTOGRAM(S)



Precautionary Statements

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

the workplace. Wear protective gloves, eye protection, and face protection.

Response: IF ON SKIN: Wash with plenty of water. IF INHALED: Remove victim to fresh air and keep at

rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. 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 eve irritation persists: Get medical attention. Take off contaminated clothing.

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

Hazardous Component(s)	CAS Number	Percentage*
Epichlorohydrin-4,4'-isopropylidene diphenol resin	25068-38-6	30 - 60

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Silica, vitreous	60676-86-0	10 - 30
Bisphenol-F Epichlorhydrin resin	9003-36-5	10 - 30
P-tert-Butylphenyl 1-(2,3-epoxy)propyl ether	3101-60-8	5 - 10
Silicon dioxide	7631-86-9	5 - 10
Microcapsulated aromatic polyamine compounds		1 - 5
Carbon black	1333-86-4	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 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. If symptoms develop and persist, 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. 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. 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 to

extreme heat.

Hazardous combustion products: Oxides of carbon. Oxides of nitrogen. Toxic and 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. Ensure adequate ventilation. Isolate area.

Keep unnecessary personnel away. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Store in a closed container until ready for 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.

Refer to Section 8.

Storage: Keep in a cool, well ventilated area away from heat, sparks and open flame.

Keep container tightly closed until ready for use.

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

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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	CGIH TLV OSHA PEL		OTHER
Epichlorohydrin-4,4'-isopropylidene diphenol resin	None	None	None	None
Silica, vitreous	3 mg/m3 TWA Respirable particles. 10 mg/m3 TWA Inhalable particles.	20 MPPCF TWA 0.8 mg/m3 TWA 15 mg/m3 TWA Total dust. 5 mg/m3 TWA Respirable fraction. 15 MPPCF TWA Respirable fraction. 50 MPPCF TWA Total dust.	None	None
Bisphenol-F Epichlorhydrin resin	None	None	None	None
P-tert-Butylphenyl 1-(2,3-epoxy)propyl ether	None	None	None	None
Silicon dioxide	3 mg/m3 TWA Respirable particles. 10 mg/m3 TWA Inhalable particles. 6 mg/m3 TWA	15 MPPCF TWA Respirable fraction. 50 MPPCF TWA Total dust. 15 mg/m3 TWA Total dust. 5 mg/m3 TWA Respirable fraction. 20 MPPCF TWA 0.8 mg/m3 TWA	None	3 mg/m3 TWA Respirable fraction.
Microcapsulated aromatic polyamine compounds	None	None	None	None
Carbon black	3 mg/m3 TWA Inhalable fraction.	3.5 mg/m3 PEL 5 mg/m3 TWA Respirable fraction. 50 MPPCF TWA Total dust. 15 MPPCF TWA Respirable fraction. 15 mg/m3 TWA Total dust.	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.

Safety goggles or safety glasses with side shields. Full face protection should Eye/face protection:

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: Liquid Black Color: Odor: Slight Odor threshold: Not available.

pH: Not applicable, Product is non-soluble (in water).

Vapor pressure: Not available. Boiling point/range: Not determined Melting point/ range: Specific gravity: -38 °C (-36.4 °F)

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Vapor density: Not available. > 100 °C (> 212°F) Flash point: Flammable/Explosive limits - lower: Not available. Flammable/Explosive limits - upper: Not available. Autoignition temperature: Not available.

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Flammability: The product is not flammable.

Evaporation rate:

Solubility in water:

Partition coefficient (n-octanol/water):

VOC content:

Viscosity:

Decomposition temperature:

Not available.

Not available.

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. Ammonia. Irritating organic vapours.

Incompatible materials: Strong oxidizing agents. Strong acids and strong bases. Acid anhydrides. Acid chlorides.

Reactivity: Not available.

Conditions to avoid: High temperatures. Store away from incompatible materials. 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 respiratory tract irritation. These symptoms, which can include chest tightness,

wheezing, cough, shortness of breath or asthma attack, could be immediate or delayed (up to

several hours after exposure).

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	
Epichlorohydrin-4,4'-isopropylidene diphenol resin	None	Allergen, Irritant	
Silica, vitreous	None	Nuisance dust	
Bisphenol-F Epichlorhydrin resin	None	Allergen, Irritant	
P-tert-Butylphenyl 1-(2,3-epoxy)propyl ether	None	Irritant, Allergen	
Silicon dioxide	Oral LD50 (Rat) = > 22,500 mg/kg Oral LD50 (Mouse) = > 15,000 mg/kg Inhalation LC50 (Rat, 4 h) = > 2.08 mg/l Inhalation LC50 (Rat, 4 h) = > 0.69 mg/l	Nuisance dust	
Microcapsulated aromatic polyamine compounds	None	No Data	
Carbon black	Oral LD50 (Rat) = > 8,000 mg/kg	Respiratory, Some evidence of carcinogenicity	

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Epichlorohydrin-4,4'-isopropylidene diphenol resin	No	No	No
Silica, vitreous	No	No	No
Bisphenol-F Epichlorhydrin resin	No	No	No
P-tert-Butylphenyl 1-(2,3-epoxy)propyl ether	No	No	No
Silicon dioxide	No	No	No
Microcapsulated aromatic polyamine compounds	No	No	No
Carbon black	No	Group 2B	No

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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:Not regulatedHazard class or division:NoneIdentification number:NonePacking group:None

International Air Transportation (ICAO/IATA)

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Epoxy resin)

Hazard class or division: 9
Identification number: UN 3082
Packing group: III

Water Transportation (IMO/IMDG)

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resin)

Hazard class or division: 9
Identification number: UN 3082
Packing group: III

Marine pollutant: Epoxy resin

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 12 (b) Export Notification:

TSCA 8 (b) Inventory Status: All components are listed as active or are exempt from listing on the Toxic Substances

Control Act (TSCA) inventory. None above reporting de minimis

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

None above reporting de minimis.
None above reporting de minimis.

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: One or more components are not listed on, and are not exempt from listing on either the

Domestic Substances List or the Non-Domestic Substances List.

16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: 8,9.11,13,16

Prepared by: Product Safety and Regulatory Affairs

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