498797

FP4547-V20

**United States** 



Revision Number: 004.0

### **PRODUCT AND COMPANY IDENTIFICATION** 1.

Product name:

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

LOCTITE ECCOBOND FP4547 known as 10CC LW CTE FLIP CHIP UF -40CD Encapsulant None identified

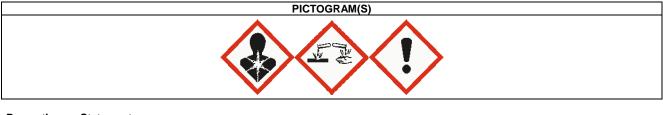
**IDH number:** Item number: Region: Contact information: Telephone: +1 (860) 571-5100 MEDICAL EMERGENCY Phone: Poison Control Center 1-877-671-4608 (toll free) or 1-303-592-1711 TRANSPORT EMERGENCY Phone: CHEMTREC 1-800-424-9300 (toll free) or 1-703-527-3887 Internet: www.henkelna.com

This product contains one or more components regulated under a Significant New Use Rule (SNUR) by the US EPA. See Section 15 for more information.

# 2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
CAUSES SKIN IRRITATION.
MAY CAUSE AN ALLERGIC SKIN REACTION.
CAUSES SERIOUS EYE DAMAGE.
MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS OR BREATHING
DIFFICULTIES IF INHALED.
MAY CAUSE RESPIRATORY IRRITATION.
SUSPECTED OF CAUSING GENETIC DEFECTS.
SUSPECTED OF CAUSING CANCER.
SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD.

HAZARD CLASS	HAZARD CATEGORY
SKIN IRRITATION	2
SERIOUS EYE DAMAGE	1
RESPIRATORY SENSITIZATION	1
SKIN SENSITIZATION	1
CARCINOGENICITY	2
GERM CELL MUTAGENICITY	2
REPRODUCTIVE TOXICITY	2
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	3



**Precautionary Statements** 

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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 the workplace. Wear protective gloves, clothing, eye and face protection. In case of inadequate ventilation wear respiratory protection. IF ON SKIN: Wash with plenty of water. IF INHALED: Remove victim to fresh air and keep at Response: 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 exposed or concerned: Get medical attention. If skin irritation or rash occurs: Get medical attention. Take off contaminated clothing. Storage: Store in a well-ventilated place. Keep container tightly closed. Store locked up. IDH number: 498797 Product name: LOCTITE ECCOBOND FP4547 known as 10CC LW CTE FLIP CHIP UF -40CD Page 1 of 6

### 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*	
Silica, vitreous	60676-86-0	60 - 80	
hexahydromethylphthalic anhydride	25550-51-0	10 - 30	
6-glycidyloxynapht-1-yl oxymethyloxirane	27610-48-6	5 - 10	
Silicon dioxide	7631-86-9	5 - 10	
Bisphenol-F Epichlorhydrin resin	9003-36-5	5 - 10	
2,2'- [Methylenebis(phenyleneoxymethylene)]b isoxirane	39817-09-9	0.1 - 1	

\* Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

4. FIR	ST 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.	
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 silicon. Hydrocarbons. Irritating organic vapours.	

# 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. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Scrape up as much material as possible. Store in a closed metal 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. Keep container closed. 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.

## 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
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
hexahydromethylphthalic anhydride	None	None	None	None
6-glycidyloxynapht-1-yl oxymethyloxirane	None	None	None	0.1 ppm TWA
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.
Bisphenol-F Epichlorhydrin resin	None	None	None	None
2,2 <sup>-</sup> - [Methylenebis(phenyleneoxymethylene)]b isoxirane	None	None	None	None

Engineering controls:

Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

Respiratory protection:

Eye/face protection:

Use NIOSH approved respirator if there is potential to exceed exposure limit(s).

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. 4H gloves.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Liquid Black

Odorless

Not available. Not available.

Not available.

Not available.

Not available.

Not available.

Not determined

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:

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> 121 °C (> 249.8 °F) Cleveland open cup

Flammable/Explosive limits - upper: Autoignition temperature: Flammability: Evaporation rate: Solubility in water: Partition coefficient (n-octanol/water): VOC content: Viscosity: Decomposition temperature:

Not determined Not applicable Not available. Insoluble Not available. 0 %; 0 g/l (calculated) 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:	Hydrocarbons. Oxides of carbon. Oxides of nitrogen. Oxides of silicon. Irritating organic vapours.
Incompatible materials:	Oxidizing agents. Water, amines, alkalis and alcohols. Acids. Bases. Mercaptans.
Reactivity:	Not available.
Conditions to avoid:	Heat, flames, sparks and other sources of ignition. Store away from incompatible materials.
1	1. TOXICOLOGICAL INFORMATION
Product toxicity data:	The U.S. Environmental Protection Agency (EPA) has identified certain substances that are structurally similar to the epoxy resin component with CAS # 27610-48-6. These analogues are phenylglycidylether and diglycidylether of resorcinol. Based on the results of animal bioassays on these analogues, the EPA finds that the epoxy resin component (CAS # 27610-48-6) may be carcinogenic and may cause reproductive effects. The epoxy resin is expected to be absorbed via all routes.
Relevant routes of exposure:	Skin, Inhalation, Eyes, Ingestion

### Potential Health Effects/Symptoms

### Inhalation:

May cause allergic respiratory reaction. 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). May cause respiratory tract irritation. Skin contact: Causes skin irritation. May cause allergic skin reaction. Eye contact: Causes serious eye damage. May cause corneal injury. Ingestion: May cause gastrointestinal tract irritation if swallowed.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Silica, vitreous	None	Nuisance dust
hexahydromethylphthalic anhydride	None	Allergen, Respiratory, Irritant
6-glycidyloxynapht-1-yl oxymethyloxirane	None	Irritant, Allergen, Blood, Reproductive
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
Bisphenol-F Epichlorhydrin resin	None	Allergen, Irritant
2,2'- [Methylenebis(phenyleneoxymethylene)]b isoxirane	None	No Target Organs

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Silica, vitreous	No	No	No
hexahydromethylphthalic anhydride	No	No	No
6-glycidyloxynapht-1-yl oxymethyloxirane	No	No	No
Silicon dioxide	No	No	No
Bisphenol-F Epichlorhydrin resin	No	No	No
2,2'- [Methylenebis(phenyleneoxymethylene)]b isoxirane	No	No	No

#### **ECOLOGICAL INFORMATION** 12.

**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 package/configuration.

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

Proper shipping name: Hazard class or division: Identification number: Packing group:

Not regulated None None None

International Air Transportation (ICAO/IATA)

Proper shipping name: Hazard class or division: Identification number: Packing group:

Not regulated None None None

Water Transportation (IMO/IMDG)

Proper shipping name: Hazard class or division: Identification number: Packing group: Not regulated None None None

# **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 5(a) SNUR:	This product contains the following component(s) subject to a Significant New Use Rule (SNUR) by the US EPA: 6-glycidyloxynapht-1-yl oxymethyloxirane (CAS # 27610-48-6). The SNUR is codified at
	Section number: 40 CFR 721.5192
TSCA 12 (b) Export Notification:	Oxirane, 2,2'-(1,6-naphthalenediylbis(oxymethylene))bis- (CAS# 27610-48-6).
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:	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: 2,8,11,13,15,16

Prepared by: Product Safety and Regulatory Affairs

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