

Safety Data Sheet



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1. IDENTIFICATION

Product name:	LOCTITE ECCOBOND UF 3808 55MLEC	IDH number:	1440696
Product type/ Recommended use:	Epoxy adhesive	Item number:	44971
Restriction of Use:	None identified	Region:	United States
Company address:	Henkel Corporation One Henkel Way Rocky Hill, Connecticut 06067	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 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

WARNING:	H315 - CAUSES SKIN IRRITATION. H317 - MAY CAUSE AN ALLERGIC SKIN REACTION. H319 - CAUSES SERIOUS EYE IRRITATION. H341 - SUSPECTED OF CAUSING GENETIC DEFECTS. H351 - SUSPECTED OF CAUSING CANCER. H361 - SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD.
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HAZARD CLASS	HAZARD CATEGORY
SKIN IRRITATION	2
EYE IRRITATION	2A
SKIN SENSITIZATION	1
GERM CELL MUTAGENICITY	2
CARCINOGENICITY	2
REPRODUCTIVE TOXICITY	2

PICTOGRAM(S)



Precautionary Statements

Prevention:

- P201 - Obtain special instructions before use.
- P202 - Do not handle until all safety precautions have been read and understood.
- P261 - Avoid breathing mist/vapours.
- P264 - Wash affected area thoroughly after handling.
- P272 - Contaminated work clothing should not be allowed out of the workplace.
- P280 - Wear protective gloves, clothing, eye and face protection.

Response:

- P302+P352 - IF ON SKIN: Wash with plenty of water.
- P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308+P313 - IF exposed or concerned: Get medical attention.
- P333+P313 - If skin irritation or rash occurs: Get medical attention.

Storage: P337+P313 - If eye irritation persists: Get medical attention.
Disposal: P362+P364 - Take off contaminated clothing and wash it before reuse.
 P405 - Store locked up.
 P501 - Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

Other hazards Not available.

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	Weight %*
Bisphenol-F Epichlorhydrin resin	9003-36-5	10 - 30
6-glycidyloxynaph-1-yl oxymethyloxirane	27610-48-6	10 - 30
(Octahydro-4,7-methano-1H-indenediyl)bis(methylene) diacrylate	42594-17-2	5 - 10
2,3-epoxypropyl methacrylate	106-91-2	5 - 10
Microencapsulated aromatic polyamine compounds		5 - 10
P-tert-Butylphenyl 1-(2,3-epoxy)propyl ether	3101-60-8	5 - 10
Isobornyl methacrylate	7534-94-3	1 - 5
2,2'-[[2-(oxiranylmethoxy)-1,3-phenylene]bis(methylene)]bisoxirane	13561-08-5	1 - 5
Epichlorhydrin-4,4'-isopropylidene diphenol resin	25068-38-6	1 - 5

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

4. FIRST AID MEASURES

First Aid Measures by likely routes of exposure

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.
Most important symptoms and effects (acute and delayed):	The most important known symptoms and effects, both acute and delayed, are described in Section 11: Toxicological Information.
Indication of any immediate medical attention / special treatment needed:	Not available.

5. FIRE FIGHTING MEASURES

Extinguishing media:	Water spray (fog), foam, dry chemical or carbon dioxide.
Improper extinguishing agents:	Not available.
Special firefighting procedures:	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. Keep unnecessary personnel away.

Unusual fire or explosion hazards:

Closed containers may rupture (due to build up of pressure) when exposed to extreme heat. In case of fire, keep containers cool with water spray. Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products:

Oxides of carbon. 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 personnel.

Environmental precautions:

Do not allow product to enter sewer or waterways.

Clean-up methods:

Ensure adequate ventilation. Remove all sources of ignition. Keep unnecessary personnel away. 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:

Use only with adequate ventilation. Remove all sources of ignition. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Wear suitable protective clothing, safety glasses and gloves. See Section 8 of the SDS for Personal Protective Equipment. When using do not eat, drink or smoke. Keep container closed.

Storage:

For safe storage, store between -40 °C (-40°F) and -15 °C (5°F). 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
6-glycidyloxynaphth-1-yl oxymethyloxirane	None	None	None	0.1 ppm TWA
2,3-epoxypropyl methacrylate	0.01 ppm TWA (SKIN) (Dermal sensitization)	None	0.5 ppm (2.91 mg/m3) TWA (SKIN) (Skin sensitizer.)	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
Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
6-glycidyloxynaphth-1-yl oxymethyloxirane	None	None	None	0.1 ppm TWA
2,3-epoxypropyl methacrylate	0.01 ppm TWA (SKIN) (Dermal sensitization)	None	0.5 ppm (2.91 mg/m3) TWA (SKIN) (Skin sensitizer.)	None
Carbon black - Nano	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:	Use local ventilation if general ventilation is insufficient to maintain vapor concentration below established exposure limits. 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:	Liquid, Paste
Color:	Black
Odor:	Slight
Odor threshold:	Not available.
pH:	Not available.
pH:	Not applicable, Product is non-soluble (in water).
Vapor pressure:	Not available.
Boiling point/range:	Not applicable, Polymerizes before boiling point is reached.
Melting point/ range:	Not applicable, Product is a liquid
Density/Relative density:	1.16
Relative vapor density:	Not applicable
Flash point:	98 °C (208.4 °F) Closed cup98 - 99 °C (208.4 - 210.2 °F)
Flammable/Explosive limits - lower:	Not available.
Flammable/Explosive limits - upper:	Not available.
Autoignition temperature:	Not available.
Flammability:	The product is not flammable.
Evaporation rate:	Not available.
Solubility:	Not miscible or difficult to mix Water
Partition coefficient n-octanol/water (logarithmic value):	Not available.
VOC content:	< 1 %
Dynamic viscosity:	Not available.
Kinematic viscosity:	Not available.
Particle characteristics:	Not applicable, Product is a liquid
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. Phenolics. Toxic fumes. Irritating vapors.
Incompatible materials:	Strong oxidizing agents. Strong acids and strong bases. Amines. Peroxides. Iron. Rust. Free radical initiators.
Reactivity:	Not available.
Conditions to avoid:	Keep away from heat, ignition sources and incompatible materials. Protect from direct sunlight.

11. 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.
Likely routes of exposure:	Skin, Inhalation, Eyes, Ingestion

Potential Health Effects/Symptoms

Inhalation:	Inhalation of vapors or mists of the product may be irritating to the respiratory system. May cause respiratory tract irritation.
Skin contact:	May cause allergic skin reaction. Causes skin irritation.
Eye contact:	Causes serious eye irritation.
Ingestion:	Not expected under normal conditions of use. May cause gastrointestinal tract irritation if swallowed.

Hazardous Component(s)	LD50s and LC50s
Bisphenol-F Epichlorhydrin resin	None
6-glycidyloxyxanth-1-yl oxymethyloxirane	None
(Octahydro-4,7-methano-1H-indenediyl)bis(methylene) diacrylate	None
2,3-epoxypropyl methacrylate	Oral LD50 (Rat) = 0.29 g/kg Oral LD50 (Rat) = 597 mg/kg Dermal LD50 (Rabbit) = 469 mg/kg
Microcapsulated aromatic polyamine compounds	None
P-tert-Butylphenyl 1-(2,3-epoxy)propyl ether	None
Isobornyl methacrylate	None
2,2'-[[2-(oxiranylmethoxy)-1,3-phenylene]bis(methylene)]bisoxirane	None
Epichlorhydrin-4,4'-isopropylidene diphenol resin	None

Hazardous Component(s)	Immediate Health Effects	Delayed Health Effects	Chronic Health Effects
Bisphenol-F Epichlorhydrin resin	Irritant	Allergen	
6-glycidyloxyxanth-1-yl oxymethyloxirane	Irritant	Allergen	Blood Reproductive
(Octahydro-4,7-methano-1H-indenediyl)bis(methylene) diacrylate			
2,3-epoxypropyl methacrylate	Irritant	Allergen	Central nervous system
Microcapsulated aromatic polyamine compounds			
P-tert-Butylphenyl 1-(2,3-epoxy)propyl ether	Irritant	Allergen	
Isobornyl methacrylate	Irritant	Allergen	
2,2'-[[2-(oxiranylmethoxy)-1,3-phenylene]bis(methylene)]bisoxirane	Irritant	Allergen	Blood Reproductive
Epichlorhydrin-4,4'-isopropylidene diphenol resin	Irritant	Allergen	

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Bisphenol-F Epichlorhydrin resin	No	No	No
6-glycidyloxyxanth-1-yl oxymethyloxirane	No	No	No
(Octahydro-4,7-methano-1H-indenediyl)bis(methylene) diacrylate	No	No	No
2,3-epoxypropyl methacrylate	No	Group 2A	No
Microcapsulated aromatic polyamine compounds	No	No	No
P-tert-Butylphenyl 1-(2,3-epoxy)propyl ether	No	No	No
Isobornyl methacrylate	No	No	No
2,2'-[[2-(oxiranylmethoxy)-1,3-phenylene]bis(methylene)]bisoxirane	No	No	No
Epichlorhydrin-4,4'-isopropylidene diphenol resin	No	No	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. Any process stream associated with the use of this product must be disposed of by incineration or in a landfill. This provision, however, does not supersede any applicable federal, state or local laws and regulations.

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:	Corrosive liquids, n.o.s. (2,3-epoxypropyl methacrylate) (Up to 6 oz. max per inner/primary package when shipped as originally packaged only)
Hazard class or division:	8
Identification number:	UN 1760
Packing group:	III

International Air Transportation (ICAO/IATA)

Proper shipping name:	Corrosive liquid, n.o.s. (2,3-epoxypropyl methacrylate) (Up to 6 oz. max per inner/primary package when shipped as originally packaged only)
Hazard class or division:	8
Identification number:	UN 1760
Packing group:	III

Water Transportation (IMO/IMDG)

Proper shipping name:	CORROSIVE LIQUID, N.O.S. (2,3-epoxypropyl methacrylate, Epoxy resin) (Up to 6 oz. max per inner/primary package when shipped as originally packaged only)
Hazard class or division:	8
Identification number:	UN 1760
Packing group:	III
Marine pollutant:	Epoxy resin

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-glycidyloxynaph-1-yl oxymethyloxirane (CAS # 27610-48-6). The SNUR is codified at Section number: 40 CFR 721.5192

Substituted 1,6-dihydroxy naphthalene (CAS# 27610-48-6).

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