Safety Data Sheet



Revision Number: 004.0 Issue date: 04/23/2020

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: LOCTITE ECCOBOND UF 4550HTC

Product type/use: Epoxy adhesiveEpoxy resin

Restriction of Use: None identified

Company address:

Henkel Corporation One Henkel Way

Rocky Hill, Connecticut 06067

IDH number: 2670326

Region: United States

Contact information:

Telephone: +1 (860) 571-5100

MEDICAL EMERGÉNCY 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 an epoxy resin CAS # 27610-48-6 that is covered by a USEPA Significant New Use Requirement (SNUR) (40CFR 721.5192) that limits its use to binding fibers in aerospace composites or for encapsulating electronic devices. It is a violation of the SNUR to use this product for any other application.

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER: CAUSES SKIN IRRITATION.

MAY CAUSE AN ALLERGIC SKIN REACTION.

CAUSES SERIOUS EYE DAMAGE.

MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS OR BREATHING

DIFFICULTIES IF INHALED.

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
GERM CELL MUTAGENICITY	2
CARCINOGENICITY	2
REPRODUCTIVE TOXICITY	2

PICTOGRAM(S)



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. 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.

Response: IF ON SKIN: Wash with plenty of water. IF INHALED: If breathing is difficult, remove victim to

fresh air and keep at rest in a position comfortable for breathing. 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 locked up.

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*	
Aluminium oxide - non fibrous form	1344-28-1	60 - 80	
hexahydromethylphthalic anhydride	25550-51-0	5 - 10	
6-glycidyloxynapht-1-yl oxymethyloxirane	27610-48-6	5 - 10	
Epoxy resin	Proprietary	5 - 10	
cyclohexane-1,2-dicarboxylic anhydride	85-42-7	1 - 5	
Substituted phthalic anhydride	34090-76-1	0.1 - 1	
Epoxy resin	Proprietary	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. Aldehydes. Acids. 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: Releases of this product may not be made into U.S. waters without primary

and secondary wastewater treatment.

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: Keep away from heat, spark and flame. Use only with adequate ventilation.

Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Do not taste or swallow. Keep container

closed. Refer to Section 8.

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

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
Aluminium oxide - non fibrous form	1 mg/m3 TWA Respirable fraction.	5 mg/m3 PEL Respirable fraction. 15 mg/m3 PEL Total dust. 50 MPPCF TWA Total dust. 15 MPPCF TWA Respirable fraction. 15 mg/m3 TWA Total dust. 5 mg/m3 TWA Respirable fraction.	None	None
hexahydromethylphthalic anhydride	None	None	None	None
6-glycidyloxynapht-1-yl oxymethyloxirane	None	None	None	0.1 ppm TWA
Epoxy resin	None	None	None	None
cyclohexane-1,2-dicarboxylic anhydride	0.005 mg/m3 Ceiling Inhalable fraction and vapor. (Respiratory sensitization)	None	None	None
Substituted phthalic anhydride	0.0003 ppm STEL 0.00007 ppm TWA 0.7 mg/100 cm2 TLV- SL (SKIN) (Dermal sensitization) (Respiratory sensitization)	None	None	None
Epoxy resin	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: Liquidliquid Color: Off whiteOff white Odor: OdorlessOdorless Odor threshold: Not available. Not available. pH: Vapor pressure: Not available. Boiling point/range: Not available. Not available. Melting point/ range: 2.4

Specific gravity:

Vapor density: Not available.

Flash point: > 121 °C (> 249.8 °F) calculated

Flammable/Explosive limits - lower:

Flammable/Explosive limits - upper:

Autoignition temperature:

Flammability:

Flammability:

Evaporation rate:

Solubility in water:

Partition coefficient (n-octanol/water):

Not available.

Not available.

Not available.

VOC content: 0 %

Viscosity: 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. Oxides of nitrogen. Aldehydes. Acids. Irritating vapors.

Incompatible materials: Strong oxidizing agents. Acids and bases. Amines. Peroxides. Calcium hypochlorite. Alcohols.

Chlorinated rubber.

Reactivity: Not available.

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

sources of ignition.

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.

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

Potential Health Effects/Symptoms

Inhalation: May cause respiratory tract irritation. 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).

Skin contact: Moderate skin irritation. Prolonged or repeated contact with the skin may cause burns and

possible ulceration. May cause allergic skin reaction.

Eye contact: Mists, vapors or liquid may cause severe irritation or burns. Pain and discomfort. Redness.

Tearing.

Ingestion: May cause gastrointestinal tract irritation if swallowed.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Aluminium oxide - non fibrous form	None	Irritant, Nuisance dust, Corrosive
hexahydromethylphthalic anhydride	None	Allergen, Respiratory, Irritant
6-glycidyloxynapht-1-yl oxymethyloxirane	None	Irritant, Allergen, Blood, Reproductive
Epoxy resin	None	Allergen, Irritant
cyclohexane-1,2-dicarboxylic anhydride	None	Irritant, Allergen, Respiratory
Substituted phthalic anhydride	None	Irritant, Allergen, Respiratory
Epoxy resin	None	No Target Organs

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Aluminium oxide - non fibrous form	No	No	No
hexahydromethylphthalic anhydride	No	No	No
6-glycidyloxynapht-1-yl oxymethyloxirane	No	No	No
Epoxy resin	No	No	No
cyclohexane-1,2-dicarboxylic anhydride	No	No	No
Substituted phthalic anhydride	No	No	No
Epoxy 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: 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.

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 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:
Not regulated
None
None

Water Transportation (IMO/IMDG)

Proper shipping name: Not regulated Hazard class or division: None Identification number: None Packing group: 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) (2) SNUR: This product contains an ingredient for which a Significant New Use Rule (SNUR) has

been promulgated by the USEPA under the Toxic Substances Control Act (TSCA) section 5(a)(2). This SNUR (40CFR 721.5192) limits its use to binding fibers in aerospace composites or for encapsulating electronic devices. It is in violation of the SNUR to use this

composites or for encapsulating electronic devices. It is in violation of the SNUR to use this product for any other application. Manufacture, import, distribution, use and disposition of

this product is restricted to the requirements listed in 40 CFR.

TSCA 12 (b) Export Notification: Substituted 1,6-dihydroxy naphthalene (CAS# 27610-48-6).

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: 3

Prepared by: Product Safety and Regulatory Affairs

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