



Revision Number: 003.1

Issue date: 12/16/2024

1. IDENTIFICATION

Product name:	LOCTITE ECCOBOND UF 3810 known as Hysol UF3810(-20DC)30cc E/C/J	IDH number:	1858811
Product type/Recommended use:	1-c- epoxide adhesive	Item number:	45545
Restriction of Use:	None identified	Region:	United States
Company address:	Contact information:		
Henkel Corporation	Telephone: +1 (860) 571-5100		
One Henkel Way	MEDICAL EMERGENCY Phone: Poison Control Center		
Rocky Hill, Connecticut 06067	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		

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

WARNING:

H315 - CAUSES SKIN IRRITATION.
H317 - MAY CAUSE AN ALLERGIC SKIN REACTION.
H319 - CAUSES SERIOUS EYE IRRITATION.
H351 - SUSPECTED OF CAUSING CANCER.

HAZARD CLASS	HAZARD CATEGORY
SKIN IRRITATION	2
EYE IRRITATION	2A
SKIN SENSITIZATION	1
CARCINOGENICITY	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. P337+P313 - If eye irritation persists: Get medical attention. P362+P364 - Take off contaminated clothing and wash it before reuse.
Storage:	P405 - Store locked up.
Disposal:	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 %*
Epichlorohydrin-4,4'-isopropylidene diphenol resin	25068-38-6	10 - 30
Bisphenol-F Epichlorohydrin resin	9003-36-5	10 - 30
P-tert-Butylphenyl 1-(2,3-epoxy)propyl ether	3101-60-8	5 - 10
2,3-epoxypropyl methacrylate	106-91-2	5 - 10
Polymer Resin	Unknown	5 - 10
Isobornyl methacrylate	7534-94-3	1 - 5
Resin	Unknown	1 - 5

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

Non hazardous components

Actual concentration or concentration range is withheld as a trade secret

4. FIRST AID MEASURES**First Aid Measures by likely routes of exposure****Inhalation:**

If not breathing, give artificial respiration. If breathing is difficult, oxygen should be administered by qualified personnel. Move to fresh air. If symptoms persist, seek medical advice. Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Skin contact:

Rinse with running water and soap. Remove contaminated clothing and shoes. If symptoms develop and persist, get medical attention. Wash contaminated clothing before reuse. Thoroughly clean shoes before reuse. Discard any shoes or clothing items that cannot be decontaminated. 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. Seek medical attention immediately. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

Ingestion:

Seek immediate medical attention. Do not induce vomiting. Never give anything by mouth to an unconscious person. 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. Water spray or fog. Alcohol-resistant foam. Dry chemical. Carbon dioxide. Do not use high volume water jet.

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. Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

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. Uncontrolled polymerization may occur at high temperatures resulting in explosions or rupture of storage containers.

Hazardous combustion products:

Oxides of carbon. Phenolics. Toxic fumes. Irritating vapors. Oxides of carbon. Oxides of nitrogen. Toxic and irritating vapors. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

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. Do not allow product to enter sewer or waterways. Advise authorities if product has entered or may enter sewers, water sources or extensive land areas.

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. Ensure adequate ventilation. Isolate area. Keep unnecessary personnel away. Wear suitable protective clothing, gloves and eye/face protection. 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). Store in a closed container until ready for disposal.

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. When using do not eat, drink or smoke. Do not taste or swallow. Keep container closed. See Section 8 of the SDS for Personal Protective Equipment. Remove all sources of ignition. Wear suitable protective clothing, safety glasses and gloves.

Storage:

For safe storage, store between -25 °C (-13°F) and -15 °C (5°F). Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials. Store in a dry place. Avoid moisture. Keep away from heat, spark and flame. Store in original container until ready to use. Store away from incompatible materials identified in section 10. 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
2,3-epoxypropyl methacrylate	0.01 ppm TWA (SKIN) (Dermal sensitization)	None	0.5 ppm (2.91 mg/m ³) TWA (SKIN) (Skin sensitizer.)	None
Hydroquinone	1 mg/m ³ TWA (Dermal sensitization)	2 mg/m ³ PEL	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 NIOSH approved respirator if there is potential to exceed exposure limit(s). 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. 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. 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
Color:	Black
Odor:	None
Odor threshold:	Not available.
pH:	Not applicable, Product is non-soluble (in water).
Vapor pressure:	Not applicable
Boiling point/range:	Not applicable, Polymerizes before boiling point is reached.
Melting point/ range:	Not applicable, Product is a liquid
Density/Relative density:	1.13
Relative vapor density:	Not applicable
Flash point:	> 93 °C (> 199.4 °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:	Not available.
Dynamic viscosity:	400 mPa.s
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. None under normal processing. Polymerization may occur at elevated temperature or in the presence of incompatible materials.
Hazardous decomposition products:	Oxides of carbon. Phenolics. Toxic fumes. Irritating organic vapours. Oxides of nitrogen. aldehydes Acids. Hydrocarbons.
Incompatible materials:	Oxidizing agents. Acids. Bases. Amines. Strong oxidizing agents. Strong acids and strong bases. Primary and secondary aliphatic amines. Mercaptans. Free radical initiators. Peroxides. Copper. Iron. Carbon steel.
Reactivity:	Not available.
Conditions to avoid:	Keep away from heat, ignition sources and incompatible materials. Protect from direct sunlight. High temperatures. Store away from incompatible materials. Ultraviolet radiation.

11. TOXICOLOGICAL INFORMATION

Likely routes of exposure:	Skin, Inhalation, Eyes, Ingestion
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Potential Health Effects/Symptoms

Inhalation:	Causes respiratory tract irritation. May cause central nervous system effects with nausea, dizziness and headache. Inhalation of vapors or mists of the product may be irritating to the respiratory system.
Skin contact:	Causes skin irritation. May cause allergic skin reaction. Classified as Skin irritation Category 2, H315 based on Expert Judgement and experimental data of an OECD 431 test or based on analogy to similar products tested.
Eye contact:	Causes serious eye irritation. May cause corneal injury.
Ingestion:	May be harmful if swallowed. Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Not expected under normal conditions of use. May cause gastrointestinal tract irritation if swallowed.

Hazardous Component(s)	LD50s and LC50s
Epichlorohydrin-4,4'-isopropylidene diphenol resin	None
Bisphenol-F Epichlorohydrin resin	None
P-tert-Butylphenyl 1-(2,3-epoxy)propyl ether	None
2,3-epoxypropyl methacrylate	Oral LD50 (Rat) = 0.29 g/kg Oral LD50 (Rat) = 597 mg/kg Dermal LD50 (Rabbit) = 469 mg/kg
Polymer Resin	None
Isobornyl methacrylate	None
Resin	None

Hazardous Component(s)	Immediate Health Effects	Delayed Health Effects	Chronic Health Effects
Epichlorohydrin-4,4'-isopropylidene diphenol resin	Irritant	Allergen	
Bisphenol-F Epichlorohydrin resin	Irritant	Allergen	
P-tert-Butylphenyl 1-(2,3-epoxy)propyl ether	Irritant	Allergen	
2,3-epoxypropyl methacrylate	Irritant	Allergen	Central nervous system
Polymer Resin			
Isobornyl methacrylate	Irritant	Allergen	
Resin			

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Epichlorohydrin-4,4'-isopropylidene diphenol resin	No	No	No
Bisphenol-F Epichlorohydrin resin	No	No	No
P-tert-Butylphenyl 1-(2,3-epoxy)propyl ether	No	No	No
2,3-epoxypropyl methacrylate	No	Group 2A	No
Polymer Resin	No	No	No
Isobornyl methacrylate	No	No	No
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. Dispose of according to Federal, State and local governmental 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:	Not regulated (Up to 6 oz. max per inner/primary package when shipped as originally packaged only)
Hazard class or division:	None
Identification number:	None
Packing group:	None

International Air Transportation (ICAO/IATA)

Proper shipping name:	Environmentally hazardous substance, liquid, n.o.s. (Epoxy resin) (Up to 6 oz. max per inner/primary package when shipped as originally packaged only)
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) (Up to 6 oz. max per inner/primary package when shipped as originally packaged only)
Hazard class or division:	9
Identification number:	UN 3082
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 12 (b) Export Notification:	None above reporting de minimis

CERCLA/SARA Section 302 EHS:	Hydroquinone (CAS# 123-31-9). Epichlorohydrin (CAS# 106-89-8).
CERCLA/SARA Section 311/312:	Please refer to the GHS classification in Section 2
CERCLA/SARA Section 313:	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.
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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.
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16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: First issue.

Prepared by:	Product Safety and Regulatory Affairs
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Issue date:	12/16/2024
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