

Safety Data Sheet



Revision Number: 002.0

Issue date: 02/13/2024

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: LOCTITE ECCOBOND UF 1173 **IDH number:** 2420247
Product type/use: Adhesive
Restriction of Use: None identified **Region:** United States
Company address:
Henkel Corporation **Contact information:**
One Henkel Way Telephone: +1 (860) 571-5100
Rocky Hill, Connecticut 06067 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.henkeln.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: 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

Prevention: 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, 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 eye irritation persists: Get medical attention. Take off contaminated clothing.

Storage: Store in a well-ventilated place. Keep container tightly closed. 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* |
|------------------------|------------|-------------|
|------------------------|------------|-------------|

IDH number: 2420247

Product name: LOCTITE ECCOBOND UF 1173

| | | |
|--|-------------|---------|
| Silica, vitreous | 60676-86-0 | 30 - 60 |
| Si-oxide amorphous (fumed) | 7631-86-9 | 10 - 30 |
| Bisphenol A Diglycidyl Ether | 1675-54-3 | 10 - 30 |
| 2,2'-(Phenylene)bis[oxirane] | 30424-08-9 | 10 - 30 |
| Reaction product of epichlorohydrin and methylidynetrisphenol | 66072-38-6 | 5 - 10 |
| Reaction mass of 2-ethyl-4-methyl-1H-imidazole-1-propionitrile and 2-ethyl-5-methyl-1H-imidazole-1-propionitrile | 568591-00-4 | 1 - 5 |
| Bisphenol-F Epichlorohydrin resin | 9003-36-5 | 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

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| 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. |
| 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. |
| Eye contact: | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek medical attention immediately. |
| Ingestion: | Seek immediate medical attention. Do not induce vomiting. Never give anything by mouth to an unconscious person. |
| Symptoms: | See Section 11. |

5. FIRE FIGHTING MEASURES

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| Extinguishing media: | Water spray (fog), foam, dry chemical or carbon dioxide. Do not use high volume water jet. A solid stream of water may scatter molten product. |
| 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. Smoke. Phenolics. Oxides of nitrogen. Acrylonitrile. 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.

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|-----------------------------------|--|
| 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. Wear suitable protective clothing, gloves and eye/face protection. Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up. Dike the spilled material, where this is possible. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up or gather material and place in appropriate container for disposal. Use only non-sparking tools. Avoid dust formation. |

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. Refer to Section 8. When using do not eat, drink or smoke. Do not taste or swallow. Keep container closed. Open and handle container with care. Use non-sparking tools when opening or closing containers. Avoid any condition that will suspend or float powder particles in the air creating a dust cloud. Reduce all potential of static electrical discharge through bonding and grounding. Keep away from heat, spark and flame.

Storage:

Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use. Avoid moisture. Keep out of direct sunlight. Store in sealed original container. Store away from incompatible materials identified in section 10.

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 |
| Si-oxide amorphous (fumed) | 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 A Diglycidyl Ether 2,2'-(Phenylene)bis[oxirane] | None | None | None | None |
| Reaction product of epichlorohydrin and methylidynetrisphenol | None | None | None | None |
| Reaction mass of 2-ethyl-4-methyl-1H- imidazole-1-propionitrile and 2-ethyl-5- methyl-1H-imidazole-1-propionitrile | None | None | None | None |
| Bisphenol-F Epichlorhydrin resin | None | None | None | None |

Engineering controls:

Use local ventilation if general ventilation is insufficient to maintain vapor concentration below established 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

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|---|--|
| Physical state: | Liquid |
| Color: | Black |
| Odor: | Slightly |
| Odor threshold: | Not available. |
| pH: | Not applicable, Product is non-soluble (in water). |
| Vapor pressure: | Not available. |
| Boiling point/range: | Not available. |
| Melting point/ range: | Not applicable, Product is a liquid |
| Specific gravity: | 1.68 |
| Vapor density: | Not available. |
| Flash point: | > 110 °C (> 230°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 in water: | Insoluble |
| Partition coefficient (n-octanol/water): | Not available. |
| VOC content: | < 1 % |
| Viscosity: | 12,000 - 16,000 mPa.s |
| Decomposition temperature: | Not available. |

10. STABILITY AND REACTIVITY

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|--|--|
| 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. Ammonia. Acrylonitrile Cyanides. Smoke. Phenolics. Oxides of nitrogen. Toxic fumes. Irritating organic vapours. |
| Incompatible materials: | Strong oxidizing agents. Hydrogen fluoride. Strong acids and strong bases. Avoid contact with amines and mercaptans. Primary and secondary aliphatic amines. |
| Reactivity: | Not available. |
| Conditions to avoid: | High temperatures. Avoid temperatures above 200°C (392°F). Keep away from heat, ignition sources and incompatible materials. Take measures to prevent the build-up of electrostatic charges. Avoid dust formation. Danger of dust explosions. Avoid moisture. Protect from direct sunlight. Humidity. Exposure to light. |

11. TOXICOLOGICAL INFORMATION

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|-------------------------------------|------------------------|
| Relevant routes of exposure: | Skin, Inhalation, Eyes |
|-------------------------------------|------------------------|

Potential Health Effects/Symptoms

Inhalation: May cause respiratory tract irritation.
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 |
|--|---|--|
| Silica, vitreous | None | Nuisance dust |
| Si-oxide amorphous (fumed) | 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 A Diglycidyl Ether | Oral LD50 (Rabbit) = 1,980 mg/kg Oral LD50 (Mouse) = 15,600 mg/kg Oral LD50 (Rat) = > 1,000 mg/kg Oral LD50 (Mouse) = > 500 mg/kg Dermal LD50 (Rabbit) = 20 mg/kg Dermal LD50 (Rat) = > 1,600 mg/kg Dermal LD50 (Mouse) = > 800 mg/kg | Allergen, Central nervous system, Irritant, Liver, Respiratory |
| 2,2'-(Phenylene)bis[oxirane] | None | No Data |
| Reaction product of epichlorohydrin and methylidynetrisphenol | None | Allergen, Irritant |
| Reaction mass of 2-ethyl-4-methyl-1H-imidazole-1-propionitrile and 2-ethyl-5-methyl-1H-imidazole-1-propionitrile | None | No Data |
| Bisphenol-F Epichlorohydrin resin | None | Allergen, Irritant |

| Hazardous Component(s) | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|--|----------------|-----------------|--|
| Silica, vitreous | No | No | No |
| Si-oxide amorphous (fumed) | No | No | No |
| Bisphenol A Diglycidyl Ether | No | No | No |
| 2,2'-(Phenylene)bis[oxirane] | No | No | No |
| Reaction product of epichlorohydrin and methylidynetrisphenol | No | No | No |
| Reaction mass of 2-ethyl-4-methyl-1H-imidazole-1-propionitrile and 2-ethyl-5-methyl-1H-imidazole-1-propionitrile | No | No | No |
| Bisphenol-F Epichlorohydrin 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: Use must comply with 40 CFR 721.90.(a) (4), (b) (4), (c) (4).

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
Hazard class or division: None
Identification number: None
Packing group: None

International Air Transportation (ICAO/IATA)

| | |
|----------------------------------|---------------|
| Proper shipping name: | Not regulated |
| Hazard class or division: | None |
| Identification number: | None |
| Packing group: | 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) SNUR: | This product contains the following component(s) subject to a Significant New Use Rule (SNUR) by the US EPA: 2,2'-(Phenylene)bis[oxirane] (CAS # 30424-08-9). The SNUR is codified at Section number: 40 CFR 721.10620 Reaction mass of 2-ethyl-4-methyl-1H-imidazole-1-propionitrile and 2-ethyl-5-methyl-1H-imidazole-1-propionitrile (CAS # 568591-00-4). The SNUR is codified at Section number: 40 CFR 721.11378 |
| TSCA 12 (b) Export Notification: | Oxirane, 2,2'-(phenylene)bis- (CAS# 30424-08-9).Imidazole derivative (CAS# 568591-00-4). |
| CERCLA/SARA Section 302 EHS: | None above reporting de minimis. |
| CERCLA/SARA Section 311/312: | Immediate Health, Delayed Health |
| 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. |

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: 1,2,3-8,11,13,15,16

Prepared by: Product Safety and Regulatory Affairs

Issue date: 02/13/2024

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