chanhvinh.com

# Safety Data Sheet

**Revision Number:** 007.0

**Issue date:** 04/08/2022

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name:** LOCTITE 3515
**Product type/use:** Underfill
**Restriction of Use:** None identified
**Company address:**
Henkel Corporation
One Henkel Way
Rocky Hill, Connecticut 06067

**IDH number:** 540459
**Item number:** 38263
**Region:** United States
**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

## 2. HAZARDS IDENTIFICATION

| EMERGENCY OVERVIEW | |
|---|---|
| WARNING: | CAUSES SKIN IRRITATION.<br>MAY CAUSE AN ALLERGIC SKIN REACTION.<br>CAUSES SERIOUS EYE IRRITATION. |

| HAZARD CLASS | HAZARD CATEGORY |
|---|---|
| SKIN IRRITATION | 2 |
| EYE IRRITATION | 2A |
| SKIN SENSITIZATION | 1 |

**PICTOGRAM(S)**



**Precautionary Statements**

**Prevention:** 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, eye protection, and face protection.

**Response:** IF ON SKIN: Wash with plenty of water. 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:** Not prescribed

**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* |
|---|---|---|
| Bisphenol-F Epichlorhydrin resin | 9003-36-5 | 60 - 90 |
| Cyanoguanidine | 461-58-5 | 5 - 10 |
| Siloxanes and Silicones, di-Me, reaction products with silica | 67762-90-7 | 5 - 10 |
| Epichlorohydrin-4,4'-isopropylidene diphenol resin | 25068-38-6 | 1 - 5 |

chanhvinh.com

| | | |
|---|---|---|
| Oxiranemethanamine, N-(2-methylphenyl)-N-(oxirany | 40027-50-7 | 1 - 5 |
| Microcapsulated aromatic polyamine compound | | 0.1 - 1 |
| Carbon black | 1333-86-4 | 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:** Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

**Ingestion:** DO NOT induce vomiting unless directed to do so by medical personnel. 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. 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:** 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. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, saw dust). 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:** Use only with adequate ventilation. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. 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.**

chanhvinh.com

## 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 |
|---|---|---|---|---|
| Bisphenol-F Epichlorhydrin resin | None | None | None | None |
| Cyanoguanidine | None | None | None | None |
| Siloxanes and Silicones, di-Me, reaction products with silica | 10 mg/m3 TWA Inhalable dust.<br>3 mg/m3 TWA Respirable fraction. | 15 mg/m3 TWA Total dust.<br>5 mg/m3 TWA Respirable fraction. | None | None |
| Epichlorohydrin-4,4'-isopropylidene diphenol resin | None | None | None | None |
| Oxiranemethanamine, N-(2-methylphenyl)-N-(oxirany | None | None | None | None |
| Microcapsulated aromatic polyamine compound | None | None | None | None |
| Carbon black | 3 mg/m3 TWA Inhalable fraction. | 3.5 mg/m3 PEL<br>5 mg/m3 TWA Respirable fraction.<br>50 MPPCF TWA Total dust.<br>15 MPPCF TWA Respirable fraction.<br>15 mg/m3 TWA Total dust. | 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:** Paste
**Color:** Black
**Odor:** Slight, Epoxy
**Odor threshold:** Not available.
**pH:** Not applicable
**Vapor pressure:** Not available.
**Boiling point/range:** > 150 °C (> 302°F)
**Melting point/ range:** Not available.
**Specific gravity:** 1.23
**Vapor density:** Not available.
**Flash point:** > 100 °C (> 212°F) Closed cup
**Flammable/Explosive limits - lower:** Not available.
**Flammable/Explosive limits - upper:** Not available.
**Autoignition temperature:** Not available.
**Flammability:** Not applicable
**Evaporation rate:** Not available.
**Solubility in water:** Insoluble
**Partition coefficient (n-octanol/water):** Not available.
**VOC content:** 0 %; 0 g/l (calculated)
**Viscosity:** Not available.
**Decomposition temperature:** Not available.

chanhvinh.com

## 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. Irritating organic vapours.

**Incompatible materials:** Strong oxidizing agents. Strong acids and strong bases.

**Reactivity:** Not available.

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

## 11. TOXICOLOGICAL INFORMATION

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

**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. Redness. Tearing.
**Ingestion:** May cause gastrointestinal tract irritation if swallowed.

| Hazardous Component(s) | LD50s and LC50s | Immediate and Delayed Health Effects |
|---|---|---|
| Bisphenol-F Epichlorhydrin resin | None | Allergen, Irritant |
| Cyanoguanidine | None | Allergen, Central nervous system, Eyes, Irritant |
| Siloxanes and Silicones, di-Me, reaction products with silica | None | No Data |
| Epichlorohydrin-4,4'-isopropylidene diphenol resin | None | Allergen, Irritant |
| Oxiranemethanamine, N-(2-methylphenyl)-N-(oxirany | None | Irritant, Allergen |
| Microcapsulated aromatic polyamine compound | None | No Data |
| Carbon black | Oral LD50 (Rat) = > 8,000 mg/kg | Respiratory, Some evidence of carcinogenicity |

| Hazardous Component(s) | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|---|---|---|---|
| Bisphenol-F Epichlorhydrin resin | No | No | No |
| Cyanoguanidine | No | No | No |
| Siloxanes and Silicones, di-Me, reaction products with silica | No | No | No |
| Epichlorohydrin-4,4'-isopropylidene diphenol resin | No | No | No |
| Oxiranemethanamine, N-(2-methylphenyl)-N-(oxirany | No | No | No |
| Microcapsulated aromatic polyamine compound | No | No | No |
| Carbon black | No | Group 2B | No |

## 12. ECOLOGICAL INFORMATION

**Ecological information:** Not available.

chanhvinh.com

## 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:** | Not regulated (Up to 300 ml 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 300 ml 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 300 ml 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:** | 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:** 3,8,11,16

**Prepared by:** Product Safety and Regulatory Affairs

**Issue date:** 04/08/2022

chanhvinh.com

**DISCLAIMER:** The data contained herein are furnished for information only and are believed to be reliable. However, Henkel Corporation and its affiliates ("Henkel") does not assume responsibility for any results obtained by persons over whose methods Henkel has no control. It is the user's responsibility to determine the suitability of Henkel's products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any Henkel's products. In light of the foregoing, Henkel specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Henkel's products. Henkel further disclaims any liability for consequential or incidental damages of any kind, including lost profits.

This Safety Data Sheet has been generated based on OSHA Hazard Communication Standard (29 CFR 1910.1200) and provides information in accordance with U.S. federal law only. No warranty or representation of any kind is given with respect to the substantive or export laws of any other jurisdiction or country. Please confirm that the information provided herein conforms to the substantive export or other law of any other jurisdiction prior to export. Please contact Henkel Product Safety and Regulatory Affairs for additional assistance.