

Revision Number: 003.0

Issue date: 05/07/2014

1. PRODUCT AND COMPANY IDENTIFICATION

Product name:

Product type: Restriction of Use: Company address: Henkel Corporation One Henkel Way Rocky Hill, Connecticut 06067

LOCTITE ABLESTIK 8515 known as Ablebond 8515 (2.8g), Epoxy resin None identified

IDH number:

1200386

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

WARNING:

EMERGENCY OVERVIEW CAUSES SKIN IRRITATION. MAY CAUSE AN ALLERGIC SKIN REACTION. CAUSES SERIOUS EYE IRRITATION.

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



Precautionary Statements

| Prevention: | Avoid breathing vapors, mist, or spray. Wash thoroughly after handling. Contaminated work clothing should not be allow ed out of the workplace. Wear eye and face protection. Wear protective gloves. |
|-------------|---|
| Response: | IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. 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) | CASNumber | Percentage* | |
|-----------------------------------|-------------|-------------|--|
| Epoxy resin | Proprietary | 30 - 60 | |
| Ethene, tetrafluoro-, homopolymer | 9002-84-0 | 30 - 60 | |
| Epoxy resin | Proprietary | 10 - 30 | |
| Substituted imidazole | Proprietary | 1-5 | |
| Synthetic resin | Proprietary | 1-5 | |
| Substituted silane | Proprietary | 1-5 | |
| Carboxylic Acid | Proprietary | 1 - 5 | |

* Exact percentage is a 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 w ith plenty of w ater (using soap, if available). Remove contaminated clothing and footwear. 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 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. F | FIRE FIGHTING MEASURES | |
| Extinguishing media: | Water spray (fog), foam, dry chemical or carbon dioxide. | |
| Special fire fighting procedures: | Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. In case of fire, keep containers cool w ith w ater spray. | |
| Unus ual fire or explosion hazards: | Closed containers may rupture (due to build up of pressure) when exposed t extreme heat. | |
| Hazardous combustion products: | Oxides of carbon. Toxic fluorine compounds. Toxic and irritating vapors. | |
| 6. ACCIDENTAL RELEASE MEASURES | | |

Use personal protection recommended in Section 8, is olate the hazard area and deny entry to unnecessary and unprotected personnel.

| Environmental precautions: | Do not allow product to enter sew er or waterways. | |
|----------------------------|--|--|
| Clean-up methods: | Evacuate and ventilate spill area; dike spill to prevent entry into w ater system; w ear full protective equipment during clean-up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, saw dust). Scrape up as much material as possible. Store in a partly filled, closed container until 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. Refer to Section 8.

Storage:

For safe storage, store at or below -40 °C (-40 °F) Keep in a cool, w ell ventilated area aw ay 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 |
|-----------------------------------|-----------|----------|-----------|--|
| Epoxy resin | None | None | None | None |
| Ethene, tetrafluoro-, homopolymer | None | None | None | 10 mg/m3 TWA Total dust. 5 mg/m3 TWA Respirable fraction. |
| Epoxy resin | None | None | None | None |
| Substituted imidazole | None | None | None | None |
| Synthetic resin | None | None | None | None |
| Substituted silane | None | None | None | None |
| Carboxylic Acid | None | None | None | None |

 Engineering controls:
 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).

 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 show ers and eye wash stations should be available.

 Skin protection:
 Use impermeable gloves and protective clothing as necessary to prevent skin

9. PHYSICAL AND CHEMICAL PROPERTIES

contact.

Physical state: Color: Odor: Odor threshold: pH: Vapor pressure: Boiling point/range: Meltingpoint/range: Specific gravity: Vapor density: Flash point: Flammable/Explosive limits - low er: Flammable/Explosive limits - upper: Autoignition temperature: Evaporation rate: Solubility in water: Partition coefficient (n-octanol/water): VOC content: Viscosity: Decomposition temperature:

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| Liquid Yellow Odorless Not available. Not available. Not applicable Not available. |
|--|
| Not applicable |
| 1.4 |
| |
| Not applicable |
| > 93 °C (> 199.4 °F) |
| Not available. |
| Not available. |
| Not available. |
| Not available. |
| Insoluble |
| Not applicable |
| <1% |
| Not available. |
| Not available. |
| not avaiidule. |
| |

| 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. Toxic fluorine compounds. 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 aw ay from incompatible materials. | |

11. TOXICOLOGICAL INFORMATION

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

Potential Health Effects/Symptoms

| Inhalation: | May cause respiratory tract irritation. Coughing. Shortness of breath. |
|---------------|--|
| 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 sw allowed. |

| Hazardous Component(s) | LD50s and LC50s | Immediate and Delayed Health Effects |
|-----------------------------------|---------------------------|---|
| Epoxy resin | None | No Target Organs |
| Ethene, tetrafluoro-, homopolymer | None | No Target Organs |
| Epoxy resin | None | Irritant |
| Substituted imidazole | None | No Records |
| Synthetic resin | None | Allergen, Corrosive, Irritant, Kidney, Respiratory, Skin |
| Substituted silane | None | Irritant |
| Carboxylic Acid | Oral LD50 (RAT) = 74 g/kg | Irritant, Eyes, Skin, Blood |

| Hazardous Component(s) | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|-----------------------------------|----------------|-----------------|---|
| Epoxy resin | No | No | No |
| Ethene, tetrafluoro-, homopolymer | No | No | No |
| Epoxy resin | No | No | No |
| Substituted imidazole | No | No | No |
| Synthetic resin | No | No | No |
| Substituted silane | No | No | No |
| Carboxylic Acid | No | No | No |

12. ECOLOGICAL INFORMATION

Ecological information:

Not available.

| 13. DISPOSAL CONSIDERATIONS | | | |
|--|--|--|--|
| | | | |
| In | Information provided is for unused product only. | | |
| Recommended method of disposal: | Follow all local, state, federal and provincial regulations for disposal. | | |
| 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 an y package/configuration. | | | |
| U.S. Department of Transportation G | round (49 CFR) | | |
| Proper shipping name: | Not regulated | | |
| Hazard class or division: | None | | |
| Identification number: | None | | |
| Packing group: | None | | |
| International Air Transportation (ICA | Ο/ΙΑΤΑ) | | |
| Proper shipping name: | Environmentally hazardous substance, liquid, n.o.s. (Bisphenol F diglycidyl ether) | | |
| Hazard class or division: | 9 | | |
| Identification number: | UN 3082 | | |
| Packing group: | | | |
| Water Transportation (IMO/IMDG) | | | |
| Proper shipping name: | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol F | | |
| | diglycidyl ether) | | |
| Hazard class or division: | 9 | | |
| Identification number: | UN 3082 | | |
| Packing group: | ll la l | | |
| Marine pollutant: | Bisphenol F diglycidyl ether | | |
| 15. REGULATORY INFORMATION | | | |
| | | | |
| United States Regulatory Information | | | |
| TSCA 8 (b) Inventory Status: | All components are listed or are exempt from listing on the Toxic Substances Control Act | | |
| | inventory. | | |
| TSCA 12 (b) Export Notification: | Ethene, tetrafluoro-, homopolymer (CAS# 9002-84-0). | | |
| | | | |
| CERCLA/SARA Section 302 EHS: | None above reporting de minimis | | |
| CERCLA/SARA Section 311/312: | Immediate Health | | |

Immediate Health None above reporting de minimis

reproductive harm.

CERCLA/SARA Section 313: California Proposition 65:

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: New Safety Data Sheet format.

Prepared by: Timothy Pratt, Regulatory Affairs Specialist

Issue date: 05/07/2014

This product contains a chemical know n in the State of California to cause cancer. This product contains a chemical know n to the State of California to cause birth defects or other

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