



Revision Number: 006.0

Issue date: 03/07/2018

## 1. PRODUCT AND COMPANY IDENTIFICATION

|                               |   |  |               |
|-------------------------------|---|--|---------------|
| <b>Product name:</b>          | <b>LOCTITE ABLESTIK CDF 815P8A8</b>     | <b>IDH number:</b>                             | 1759072       |
|                               | <b>known as Ablestik CDF 815P8A8x25</b> |  |               |
| <b>Product type:</b>          | Conductive dry film product             | <b>Region:</b>                                 | United States |
| <b>Restriction of Use:</b>    | None identified                         | <b>Contact information:</b>                    |               |
| <b>Company address:</b>       |   | Telephone: +1 (860) 571-5100                   |               |
| Henkel Corporation            |   | MEDICAL EMERGENCY Phone: Poison Control Center |               |
| One Henkel Way                |   | 1-877-671-4608 (toll free) or 1-303-592-1711   |               |
| Rocky Hill, Connecticut 06067 |   | TRANSPORT EMERGENCY Phone: CHEMTREC            |               |
|                               |   | 1-800-424-9300 (toll free) or 1-703-527-3887   |               |
|                               |   | Internet: w ww.henkelna.com                    |               |

This product contains one or more components that are exempt from listing on the U. S. Toxic Substances Control Act (TSCA) in ventory because a polymer exemption has been granted in accordance with 40 CFR 723.250.

## 2. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

**WARNING:** MAY CAUSE AN ALLERGIC SKIN REACTION.

### HAZARD CLASS

SKIN SENSITIZATION

### HAZARD CATEGORY

1

### PICTOGRAM(S)



### Precautionary Statements

|                    |   |
|--------------------|---|
| <b>Prevention:</b> | Avoid breathing dust or fumes. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves.             |
| <b>Response:</b>   | IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical attention. Wash contaminated clothing before reuse. |
| <b>Storage:</b>    | Not prescribed  |
| <b>Disposal:</b>   | 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* |
|-----------------------------|-------------|-------------|
| Silver                      | 7440-22-4   | 80 - 90     |
| Epoxy-terminated polyadduct | Proprietary | 1 - 5       |

IDH number: 1759072

Product name: LOCTITE ABLESTIK CDF 815P8A8 known as Ablestik CDF 815P8A8x25

|                      |             |         |
|----------------------|-------------|---------|
| Modified epoxy resin | Proprietary | 1 - 5   |
| Epoxy resin          | Proprietary | 1 - 5   |
| Epoxy resin          | Proprietary | 1 - 5   |
| Modified epoxy resin | Unknown     | 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

|                      |  |
|----------------------|--|
| <b>Inhalation:</b>   | Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.   |
| <b>Skin contact:</b> | Remove contaminated clothing and footwear. Immediately wash skin thoroughly with soap and water. If symptoms develop and persist, get medical attention. Wash clothing before reuse. |
| <b>Eye contact:</b>  | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms develop and persist, get medical attention.                                     |
| <b>Ingestion:</b>    | DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.                                  |
| <b>Symptoms:</b>     | See Section 11.  |

## 5. FIRE FIGHTING MEASURES

|   |  |
|---|--|
| <b>Extinguishing media:</b>               | Water spray (fog), foam, dry chemical or carbon dioxide.   |
| <b>Special fire fighting procedures:</b>  | Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.             |
| <b>Unusual fire or explosion hazards:</b> | May liberate large quantities of dense, foul-smelling smoke which may contain unidentified toxic gasses. |
| <b>Hazardous combustion products:</b>     | Oxides of nitrogen. Oxides of carbon. Irritating organic vapours.  |

## 6. ACCIDENTAL RELEASE MEASURES

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

|                                   |  |
|-----------------------------------|--|
| <b>Environmental precautions:</b> | Do not allow product to enter sewer or waterways.  |
| <b>Clean-up methods:</b>          | Ensure adequate ventilation. Wear suitable protective clothing, gloves and eye/face protection. Scrape up spilled material and place in a closed container for disposal. Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up. |

## 7. HANDLING AND STORAGE

|                  |   |
|------------------|---|
| <b>Handling:</b> | Use only with adequate ventilation. Wear suitable protective clothing, gloves and eye/face protection. Avoid contact with eyes, skin and clothing. Do not breathe gas/fumes/vapor/spray. Keep container closed. Wash thoroughly after handling. |
| <b>Storage:</b>  | For safe storage, store between 0 °C (32°F) and 5 °C (41°F)<br>Keep in a cool, well ventilated area away from heat, sparks and open flame.<br>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 |
|-----------------------------|--|------------------------------------|-----------|-------|
| Silver                      | 0.1 mg/m <sup>3</sup> TWA Dust and fume. | 0.01 mg/m <sup>3</sup> PEL (as Ag) | None      | None  |
| Epoxy-terminated polyadduct | None                                     | None                               | None      | None  |
| Modified epoxy resin        | None                                     | None                               | None      | None  |
| Epoxy resin                 | None                                     | None                               | None      | None  |
| Epoxy resin                 | None                                     | None                               | None      | None  |
| Modified 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 respirator if ventilation is inadequate.

**Eye/face protection:**

Safety goggles or safety glasses with side shields.

**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

|   |                    |
|---|--------------------|
| <b>Physical state:</b>                          | Solid, Film        |
| <b>Color:</b>                                   | Gray               |
| <b>Odor:</b>                                    | None               |
| <b>Odor threshold:</b>                          | Not available.     |
| <b>pH:</b>                                      | Not available.     |
| <b>Vapor pressure:</b>                          | Not available.     |
| <b>Boiling point/range:</b>                     | Not available.     |
| <b>Melting point/range:</b>                     | Not available.     |
| <b>Specific gravity:</b>                        | 4.6                |
| <b>Vapor density:</b>                           | Not available.     |
| <b>Flash point:</b>                             | > 100 °C (> 212°F) |
| <b>Flammable/Explosive limits - lower:</b>      | Not available.     |
| <b>Flammable/Explosive limits - upper:</b>      | Not available.     |
| <b>Autoignition temperature:</b>                | Not available.     |
| <b>Flammability:</b>                            | Not applicable     |
| <b>Evaporation rate:</b>                        | Not available.     |
| <b>Solubility in water:</b>                     | Not available.     |
| <b>Partition coefficient (n-octanol/water):</b> | Not available.     |
| <b>VOC content:</b>                             | < 0.1 % Estimated  |
| <b>Viscosity:</b>                               | Not available.     |
| <b>Decomposition temperature:</b>               | Not available.     |

## 10. STABILITY AND REACTIVITY

|  |  |
|--|--|
| <b>Stability:</b>                        | Stable at normal conditions.   |
| <b>Hazardous reactions:</b>              | None under normal processing. Polymerization may occur at elevated temperature or in the presence of incompatible materials. |
| <b>Hazardous decomposition products:</b> | Oxides of carbon. Oxides of nitrogen. Irritating vapours.  |
| <b>Incompatible materials:</b>           | Strong oxidizing agents (peroxides, chlorine, strong acids).   |
| <b>Reactivity:</b>                       | Not available.   |
| <b>Conditions to avoid:</b>              | Heat, flames, sparks and other sources of ignition. Excessive heat.  |

## 11. TOXICOLOGICAL INFORMATION

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

### Potential Health Effects/Symptoms

|                      |   |
|----------------------|---|
| <b>Inhalation:</b>   | Inhalation of processing fumes may be harmful. May cause respiratory tract irritation.  |
| <b>Skin contact:</b> | May cause skin irritation. May cause allergic skin reaction. Argyria (a non-toxic, cosmetic blue-gray discoloration of the skin and mucous membranes that is irreversible). |
| <b>Eye contact:</b>  | May cause eye irritation.   |
| <b>Ingestion:</b>    | Not expected under normal conditions of use.  |

| Hazardous Component(s)      | LD50s and LC50s  | Immediate and Delayed Health Effects        |
|-----------------------------|--|---|
| Silver                      | Oral LD50 (Rat) = > 5,000 mg/kg<br>Dermal LD50 (Rat) = > 2,000 mg/kg | Allergen, Eyes, Irritant, Respiratory, Skin |
| Epoxy-terminated polyadduct | None   | No Records                                  |
| Modified epoxy resin        | None   | Irritant, Allergen                          |
| Epoxy resin                 | None   | Irritant, Allergen                          |
| Epoxy resin                 | None   | Allergen, Irritant                          |
| Modified epoxy resin        | None   | No Data                                     |

| Hazardous Component(s)      | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen<br>(Specifically Regulated) |
|-----------------------------|----------------|-----------------|---|
| Silver                      | No             | No              | No  |
| Epoxy-terminated polyadduct | No             | No              | No  |
| Modified epoxy resin        | No             | No              | No  |
| Epoxy resin                 | No             | No              | No  |
| Epoxy resin                 | No             | No              | No  |
| Modified 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:** Follow all local, state, federal and provincial regulations for disposal.

**Hazardous waste number:** D011. Silver.

### 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:** RQ, Environmentally hazardous substance, solid, n.o.s.  
**Hazard class or division:** 9  
**Identification number:** UN 3077  
**Packing group:** III  
**DOT Hazardous Substance(s):** Silver

#### International Air Transportation (ICAO/IATA)

**Proper shipping name:** RQ, Environmentally hazardous substance, solid, n.o.s. (Silver)  
**Hazard class or division:** 9  
**Identification number:** UN 3077  
**Packing group:** III

#### Water Transportation (IMO/IMDG)

**Proper shipping name:** RQ, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Silver)  
**Hazard class or division:** 9  
**Identification number:** UN 3077  
**Packing group:** III  
**Marine pollutant:** Silver

### 15. REGULATORY INFORMATION

#### United States Regulatory Information

**TSCA 8 (b) Inventory Status:** This product contains one or more components that are exempt from listing on the U. S. Toxic Substances Control Act (TSCA) inventory because a polymer exemption has been granted in accordance with 40 CFR 723.250.

**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:** This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). Silver (CAS# 7440-22-4).  
**CERCLA Reportable quantity:** Silver (CAS# 7440-22-4) 1,000 lbs. (454 kg)  
**California Proposition 65:** This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

#### Canada Regulatory Information

**CEPA DSL/NDL 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:** Product Safety and Regulatory Affairs

**Issue date:** 03/07/2018

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