



Revision Number: 009.0

Issue date: 05/22/2023

## 1. PRODUCT AND COMPANY IDENTIFICATION

|                               |  |  |               |
|-------------------------------|--|--|---------------|
| <b>Product name:</b>          | <b>LOCTITE ABLESTIK 84-3J known as</b> | <b>IDH number:</b>                             | 1198998       |
|                               | <b>Ablebond 84-3J</b>                  |  |               |
| <b>Product type/use:</b>      | Die attach adhesive                    | <b>Item number:</b>                            | 1198998       |
| <b>Restriction of Use:</b>    | None identified                        | <b>Region:</b>                                 | United States |
| <b>Company address:</b>       |  | <b>Contact information:</b>                    |               |
| 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   |               |
|                               |  | Internet: www.henkelna.com                     |               |

## 2. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

**DANGER:** CAUSES SKIN IRRITATION.  
MAY CAUSE AN ALLERGIC SKIN REACTION.  
CAUSES SERIOUS EYE IRRITATION.  
CAUSES DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE.  
MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE.

| HAZARD CLASS                                       | HAZARD CATEGORY |
|--|-----------------|
| SKIN IRRITATION                                    | 2               |
| EYE IRRITATION                                     | 2A              |
| SKIN SENSITIZATION                                 | 1               |
| SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE | 1               |
| SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE | 2               |

### PICTOGRAM(S)



### Precautionary Statements

|                    |  |
|--------------------|--|
| <b>Prevention:</b> | Do not breathe vapors, mist, or spray. Wash affected area thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, eye protection, and face protection.   |
| <b>Response:</b>   | 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. Get medical attention if you feel unwell. If skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical attention. Take off contaminated clothing. |
| <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

IDH number: 1198998

Product name: LOCTITE ABLESTIK 84-3J known as Ablebond 84-3J

| Hazardous Component(s)                                  | CAS Number | Percentage* |
|---|------------|-------------|
| Quartz (SiO <sub>2</sub> ), <1% respirable              | 14808-60-7 | 30 - 60     |
| Bisphenol-F Epichlorhydrin resin                        | 9003-36-5  | 10 - 30     |
| Formaldehyde, polymer with epichlorohydrin and o-cresol | 29690-82-2 | 10 - 30     |
| 1,4-bis(2,3 epoxypropoxy)butane                         | 2425-79-8  | 10 - 30     |
| Glass, oxide, chemicals                                 | 65997-17-3 | 1 - 5       |
| dapsone   | 80-08-0    | 1 - 5       |
| Epichlorohydrin-4,4'-isopropylidene diphenol resin      | 25068-38-6 | 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> | 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. Thoroughly clean shoes before reuse. |
| <b>Eye contact:</b>  | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. 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 firefighting procedures:</b>   | Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. In case of fire, keep containers cool with water spray. |
| <b>Unusual fire or explosion hazards:</b> | Closed containers may rupture (due to build up of pressure) when exposed to extreme heat.  |
| <b>Hazardous combustion products:</b>     | Oxides of carbon. Toxic fumes. 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.

|                                   |   |
|-----------------------------------|---|
| <b>Environmental precautions:</b> | Do not allow product to enter sewer or waterways.   |
| <b>Clean-up methods:</b>          | Evacuate and ventilate spill area; dike spill to prevent entry into water system; wear full protective equipment during clean-up. 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. |

## 7. HANDLING AND STORAGE

**Handling:** Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Use only with adequate ventilation. Keep container closed.

**Storage:** For safe storage, store at or below -40 °C (-40°F). Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials. Keep away from heat, spark and flame. Protect from direct sunlight.

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 |
|---|--|---|-----------|-------|
| Quartz (SiO <sub>2</sub> ), <1% respirable              | 0.025 mg/m <sup>3</sup> TWA<br>Respirable fraction.  | 0.05 mg/m <sup>3</sup> TWA<br>(Respirable dust.)<br>(Respirable dust.)<br>0.025 mg/m <sup>3</sup><br>OSHA_ACT<br>(Respirable dust.)<br>0.05 mg/m <sup>3</sup> PEL<br>Respirable dust.<br>2.4 MPPCF TWA<br>Respirable.<br>0.1 mg/m <sup>3</sup> TWA<br>Respirable. | None      | None  |
| Bisphenol-F Epichlorohydrin resin                       | None   | None  | None      | None  |
| Formaldehyde, polymer with epichlorohydrin and o-cresol | None   | None  | None      | None  |
| 1,4-bis(2,3 epoxypropoxy)butane                         | None   | None  | None      | None  |
| Glass, oxide, chemicals                                 | 5 mg/m <sup>3</sup> TWA<br>Inhalable fraction.<br>10 mg/m <sup>3</sup> TWA<br>Inhalable dust.<br>3 mg/m <sup>3</sup> TWA<br>Respirable fraction. | 15 mg/m <sup>3</sup> TWA Total<br>dust.<br>5 mg/m <sup>3</sup> TWA<br>Respirable fraction.  | None      | None  |
| dapsone   | None   | None  | None      | None  |
| Epichlorohydrin-4,4'-isopropylidene diphenol resin      | 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 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:** Liquid  
**Color:** Blue  
**Odor:** Mild  
**Odor threshold:** Not available.  
**pH:** Not applicable, Product is non-soluble (in water).  
**Vapor pressure:** < 0.1 hPa (20 °C (68°F))  
**Boiling point/range:** Not applicable, Polymerizes before boiling point is reached.  
**Melting point/ range:** Not applicable, Product is a liquid  
**Specific gravity:** 1.8  
**Vapor density:** 20 °C Heavier than air  
**Flash point:** > 93 °C (> 199.4 °F)

IDH number: 1198998

Product name: LOCTITE ABLESTIK 84-3J known as Ablebond 84-3J

|   |                               |
|---|-------------------------------|
| <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>                            | The product is not flammable. |
| <b>Evaporation rate:</b>                        | Not available.                |
| <b>Solubility in water:</b>                     | Insoluble                     |
| <b>Partition coefficient (n-octanol/water):</b> | Not available.                |
| <b>VOC content:</b>                             | < 1 %                         |
| <b>Viscosity:</b>                               | Not available.                |
| <b>Decomposition temperature:</b>               | > 200 °C                      |

## 10. STABILITY AND REACTIVITY

|  |  |
|--|--|
| <b>Stability:</b>                        | Stable under normal conditions of storage and use.   |
| <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. Toxic fumes. Irritating vapors.  |
| <b>Incompatible materials:</b>           | Strong oxidizing agents. Strong acids and strong bases.  |
| <b>Reactivity:</b>                       | Not available.   |
| <b>Conditions to avoid:</b>              | Keep away from heat, ignition sources and incompatible materials. Protect from direct sunlight.                              |

## 11. TOXICOLOGICAL INFORMATION

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

### Potential Health Effects/Symptoms

|                      |   |
|----------------------|---|
| <b>Inhalation:</b>   | May cause respiratory tract irritation. Coughing. Shortness of breath. Abrasion of cured material such as by sanding or grinding could release respirable particles of silica quartz, a cancer hazard by inhalation. Normal use of this product causes no such release. |
| <b>Skin contact:</b> | Causes skin irritation. May cause allergic skin reaction.   |
| <b>Eye contact:</b>  | Causes serious eye irritation.  |
| <b>Ingestion:</b>    | May cause gastrointestinal tract irritation if swallowed.   |

| Hazardous Component(s)                                  | LD50s and LC50s | Immediate and Delayed Health Effects                          |
|---|-----------------|---|
| Quartz (SiO <sub>2</sub> ), <1% respirable              | None            | Immune system, Lung, Some evidence of carcinogenicity         |
| Bisphenol-F Epichlorohydrin resin                       | None            | Allergen, Irritant  |
| Formaldehyde, polymer with epichlorohydrin and o-cresol | None            | Irritant, Allergen  |
| 1,4-bis(2,3 epoxypropoxy)butane                         | None            | Irritant, Allergen  |
| Glass, oxide, chemicals                                 | None            | Allergen, Respiratory   |
| dapsone   | None            | Allergen, Blood, Eyes, Irritant, Kidney, Nervous System, Skin |
| Epichlorohydrin-4,4'-isopropylidene diphenol resin      | None            | Allergen, Irritant  |

| Hazardous Component(s)                                  | NTP Carcinogen                                   | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|---|--|-----------------|--|
| Quartz (SiO <sub>2</sub> ), <1% respirable              | Known To Be Human Carcinogen.                    | Group 1         | Yes                                      |
| Bisphenol-F Epichlorohydrin resin                       | No   | No              | No                                       |
| Formaldehyde, polymer with epichlorohydrin and o-cresol | No   | No              | No                                       |
| 1,4-bis(2,3 epoxypropoxy)butane                         | No   | No              | No                                       |
| Glass, oxide, chemicals                                 | Reasonably Anticipated to be a Human Carcinogen. | No              | No                                       |
| dapsone   | No   | No              | No                                       |
| Epichlorohydrin-4,4'-isopropylidene diphenol 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: 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 |
| 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 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: | Contains one or more components listed on the Non-Domestic Substances List. All other components are listed on or are exempt from listing on the Domestic Substances List. Components listed on the NDSL must be tracked by all Canadian Importers of Record as required by Environment Canada. They may be imported into Canada in limited quantities. Please contact Regulatory Affairs for additional details. |
|-----------------------|---|

## 16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: 3,8,9,11,16

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

**Issue date:** 05/22/2023

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