

Revision Number: 003.0 Issue date: 02/04/2015

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product name:

LOCTITE ABLESTIK 84-1LMIT1 known as Ablebond 84-1LMIT1 (4.2g) (5011

IDH number:

1201390

Product type:

Epoxy adhesive

Restriction of Use: No

None identified

Company address:

Henkel Electronic Materials LLC

14000 Jamboree Road

Irvine, CA 92606

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United States

Region: Contact information:

Telephone: +1 (888) 943-6535

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.henkel.com/electronics

#### 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                               |                 |
| SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE | 3               |

#### PICTOGRAM(S)



#### **Precautionary Statements**

Prevention:

Avoid breathing vapors, mist, or spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace.

Wear eye and face protection. Wear protective gloves.

Response:

IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove person to fresh air and

keep comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing. Call a poison control center or physician if you feel unwell. If skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get

medical attention. Take off contaminated clothing.

Storage: Disposal: Store in a well-ventilated place. Keep container tightly closed. Store locked up. 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               | 60 - 100                             |  |
| Epoxy resin            | Proprietary             | 5 - 10                               |  |
| Epoxy resin            | Proprietary             | 1 - 5                                |  |
| Epoxy resin modifier   | Proprietary Proprietary | reduct name: LOCTITE ABLEST 6-1. ALM |  |
| Dapsone                | 80-08-0                 | 1195) (g5.4) (1951) 46 brodeldA as   |  |

<sup>\*</sup> 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 with plenty of water (using soap, if available). Remove

contaminated clothing and footwear. Wash clothing before reuse. If symptoms

develop and persist, get medical attention.

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. FIRE FIGHTING MEASURES

Extinguishing media: Water spray (fog), foam, dry chemical or carbon dioxide.

Wear self-contained breathing apparatus and full protective clothing, such as Special firefighting procedures:

turn-out gear.

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.

Hazardous combustion products: Oxides of carbon, oxides of nitrogen, irritating organic 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: Evacuate and ventilate spill area; dike spill to prevent entry into water system;

wear full protective equipment during clean-up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Scrape up as much material as possible. Store in a partly filled, closed container until

soo all the 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:

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.

## 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/m3 TWA Dust and fume. | 0.01 mg/m3 PEL (as<br>Ag) | None      | None  |  |
| Epoxy resin            | None                         | None                      | None      | None  |  |
| Epoxy resin            | None                         | None                      | None      | None  |  |
| Epoxy resin modifier   | None                         | None                      | None      | None  |  |
| Dapsone                | 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 impermeable gloves and protective clothing as necessary to prevent skin contact. Suitable glove materials may include: Nitrile gloves. Viton gloves.

# PHYSICAL AND CHEMICAL PROPERTIES

Physical state:

Color:

Odor: Odor threshold:

pH:

Vapor pressure:

Boiling point/range: Melting point/ range:

Specific gravity:

Vapor density: Flash point:

Flammable/Explosive limits - lower: Flammable/Explosive limits - upper:

Autoignition temperature: Evaporation rate: Solubility in water:

Partition coefficient (n-octanol/water): **VOC** content:

Viscosity:

Decomposition temperature:

IDH number: 1201390

Paste, Liquid

Silver

Slight

Not available. Not available.

Not applicable Not applicable Not applicable

4.1

Not available.

> 93 °C (> 199.4 °F)

Not available. Not available.

Not available. Not available. Insoluble

Not available. < 3 %

22,000 mPa.s Not available.

## 10. STABILITY AND REACTIVITY

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. Oxides of nitrogen. Irritating organic fragments.

Incompatible materials:

Amines. Strong oxidizing agents. Strong acids and strong bases. Ammonia.

Reactivity:

Not available.

Conditions to avoid:

Elevated temperatures.

# 11. TOXICOLOGICAL INFORMATION

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. Argyria (a non-toxic, cosmetic blue-gray

discoloration of the skin and mucous membranes that is irreversible).

Eye contact:

Ingestion:

Causes serious eye irritation.

Not expected under normal conditions of use.

| Hazardous Component(s)                | LD50s and LC50s  | Immediate and Delayed Health Effects  Allergen, Eyes, Irritant, Respiratory, Skin |  |
|---------------------------------------|--|---|--|
| Silver yields at the kultury to green | Oral LD50 (RAT) = > 5,000 mg/kg<br>Dermal LD50 (RAT) = > 2,000 mg/kg |   |  |
| Epoxy resin                           | None   | Allergen, Irritant  |  |
| Epoxy resin                           | None   | Irritant, Allergen  |  |
| Epoxy resin modifier                  | None   | Irritant, Allergen  |  |
| Dapsone                               | None   | Allergen, Blood, Eyes, Irritant, Kidney,<br>Nervous System, Skin                  |  |

| Hazardous Component(s) | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|------------------------|----------------|-----------------|--|
| Silver                 | No             | No              | No                                       |
| Epoxy resin            | No             | No              | No                                       |
| Epoxy resin            | No             | No              | No                                       |
| Epoxy resin modifier   | No             | No              | No                                       |
| Dapsone                | . No           | No              | No                                       |

## 12. ECOLOGICAL INFORMATION

**Ecological information:** 

IDH number: 1201390

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:

This product contains a component or components identified as hazardous

under 40 CFR 261.24. D011: Silver (Check TCLP Level).

#### 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 substances, liquid, n.o.s.

Hazard class or division:

9

Identification number:

UN 3082

Packing group:

111

DOT Hazardous Substance(s):

Silver

International Air Transportation (ICAO/IATA)

Proper shipping name:

Environmentally hazardous substance, liquid, n.o.s.

Hazard class or division: Identification number:

UN 3082

Packing group:

111

Water Transportation (IMO/IMDG)

Proper shipping name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Hazard class or division:

UN 3082

Identification number: Packing group:

III

#### 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:

None above reporting de minimis

CERCLA/SARA Section 302 EHS:

CERCLA/SARA Section 311/312:

None above reporting de minimis 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/NDSL Status:

IDH number: 1201390

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: New Safety Data Sheet format.

Prepared by:

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