

Revision Number: 005.0

Issue date: 01/28/2015

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name:

LOCTITE ABLESTIK 84-1LMINB known IDH number:

1200223

Product type:

as Ablebond 84-1LMINB(5011)(3.6g)

Restriction of Use:

Epoxy adhesive

None identified

Region:

**United States** 

Company address:

Contact information:

Henkel Electronic Materials LLC 14000 Jamboree Road Irvine, CA 92606

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		1
SPECIFIC TARGET ORGAN TOXIC	ITY - 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.

IDH number: 1200223

# **COMPOSITION / INFORMATION ON INGREDIENTS**

Hazardous Component(s)	CAS Number	Percentage*
Silver	7440-22-4	60 - 100
Epoxy resin	Proprietary	10 - 30
Epoxy resin modifier	Proprietary	5 - 10
Dapsone	known 10H number 0-80-08 10223	EMINAL 15-15 TEELERA STITCOL Senso Jouber
Substituted silane	Proprietary (p3	ZY1103) 0.11-11-ks briedstein es

<sup>\*</sup> Exact percentage is a trade secret. Concentration range is provided to assist users in providing appropriate protections

## 4. FIRST AID MEASURES

Move to fresh air. If not breathing, give artificial respiration. If breathing is Inhalation:

difficult, give oxygen. Get medical attention.

Immediately flush skin with plenty of water (using soap, if available). Remove Skin contact:

contaminated clothing and footwear. If symptoms develop and persist, get

medical attention. Wash clothing before reuse.

Rinse immediately with plenty of water, also under the eyelids, for at least 15 Eye contact:

minutes. Get medical attention.

Do not induce vomiting. Never give anything by mouth to an unconscious Ingestion:

person. Get medical attention.

See Section 11. Symptoms:

### 5. FIRE FIGHTING MEASURES

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

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

turn-out gear. In case of fire, keep containers cool with water spray.

Closed containers may rupture (due to build up of pressure) when exposed to Unusual fire or explosion hazards:

extreme heat.

Oxides of carbon. Oxides of Metals in Section 2. Toxic and irritating vapors. Hazardous combustion products:

### 6. ACCIDENTAL RELEASE MEASURES

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

Do not allow product to enter sewer or waterways. **Environmental precautions:** 

Remove all sources of ignition. Ensure adequate ventilation. Isolate area. Clean-up methods: Keep unnecessary personnel away. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). 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:

For safe storage, store at or below -40 °C (-40°F)

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 Ag)	None	None
Epoxy resin	None	None	None	None
Epoxy resin modifier	None	None	None	None
Dapsone	None	None	None	None
Substituted silane	None	None	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:

Gray

Odor:

Slight

Odor threshold:

Not available.

pH:

Not available.

Vapor pressure:

Not applicable

Boiling point/range:

Not applicable

Melting point/ range:

Not available. 3.5

Specific gravity: Vapor density:

Not available.

Flash point:

> 100 °C (> 212°F)

Flash point.

Not available.

Flammable/Explosive limits - lower:

Not available.

Flammable/Explosive limits - upper: Autoignition temperature:

Not available.

Evaporation rate:

Not available.

Solubility in water:

Insoluble

Partition coefficient (n-octanol/water):

Not applicable

**VOC** content:

< 0.1 % (by weight)

Viscosity: Decomposition temperature: Not available. Not available.

# 10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of storage and use.

Hazardous reactions: None under normal processing.

Hazardous decomposition (A) Oxides of

products:

Oxides of carbon. Oxides of Metals in Section 2. 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. Coughing. Shortness of breath.

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: 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	
Silver one nouseign east half at feine e	Oral LD50 (RAT) = > 5,000 mg/kg Dermal LD50 (RAT) = > 2,000 mg/kg	Allergen, Eyes, Irritant, Respiratory, Skin	
Epoxy resin	None None	Allergen, Irritant	
Epoxy resin modifier	None	Irritant, Allergen	
Dapsone de las sevois pribulos prio	Use chem anoNaistant, impermeable co	Allergen, Blood, Eyes, Irritant, Kidney, Nervous System, Skin	
Substituted silane	None	Allergen, Irritant	

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Silver	No	Visite No	No
Epoxy resin	No	No	No No
Epoxy resin modifier	No Pice	No	No
Dapsone	No	No	No
Substituted silane	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:

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:

Identification number:

UN 3082

Packing group:

III

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:

Ш

Water Transportation (IMO/IMDG)

Proper shipping name:

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

Hazard class or division:

9

Identification number:

UN 3082

Packing group:

111

### 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:

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/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: New Safety Data Sheet format.

IDH number: 1200223

Product name: LOCTITE ABLESTIK 84-1LMINB known as Ablebond 84-1LMINB(5011)(3.6g) Page 5 of 6

Prepared by:

Timothy Pratt, Regulatory Affairs Specialist

Issue date:

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S. REGULATORY INFORMATION

oliver (JAS# 7440-22-4) 1,000 lits, (454 kg)
This product contains a chemical known to the State of

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