

Revision Number: 004.0

Issue date: 12/31/2014

1. PRODUCT AND COMPANY IDENTIFICATION

Product name:

LOCTITE ABLESTIK 84-1LMI known as IDH number:

1200130

Product type:

Ablebond 84-1LMI (10.8g) (5011) Epoxy adhesive

Restriction of Use:

None identified

Region: Contact information: **United States**

Company address:

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 TOXICITY - SINGLE EXPOSURE		3

PICTOGRAM(S)



Precautionary Statements

Prevention:

Avoid breathing dust or fumes. Wash thoroughly after handling. Use only outdoors or in a wellventilated 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: 1200130

Product name: LOCTITE ABLESTIK 84-1LMI known as Ablebond 84-1LMI (10.8g) (5011) Page 1 of 6

COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Percentage*	
Silver	7440-22-4	60 - 100	
Epoxy resin	Proprietary	10 - 30	
Epoxy resin	Proprietary	5 - 10	
Epoxy resin modifier	Proprietary	roduct same: LOCITE ABLES OK-6 TLM known	
Dapsone	80-08-0	(1102) (p.102516.3) -46 brodsidA	

^{*} 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. Wash clothing before reuse. Get medical

attention.

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

minutes. Get medical attention.

DO NOT induce vomiting unless directed to do so by medical personnel. Ingestion:

Never give anything by mouth to an unconscious person. Get medical

attention.

Symptoms: See Section 11.

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.

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

extreme heat.

Oxides of carbon, oxides of nitrogen, irritating organic 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.

Environmental precautions:

Do not allow product to enter sewer or waterways.

Remove all sources of ignition. Evacuate and ventilate spill area; dike spill to Clean-up methods:

prevent entry into water system; wear full protective equipment during cleanup. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up or gather material and place in appropriate container 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:

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	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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:

Paste, Liquid Silver

Color:

None

Odor:

Not available.

Odor threshold: pH:

Not available.

Vapor pressure:

Not available.

Not applicable, Polymerization.

Boiling point/range:

Not applicable

Melting point/ range: Specific gravity:

3.4 - 3.5

Vapor density:

Not applicable > 93 °C (> 199.4 °F)

Flash point:

Not available.

Flammable/Explosive limits - lower:

Not available.

Flammable/Explosive limits - upper: Autoignition temperature:

Not available. Not available.

Evaporation rate: Solubility in water:

Insoluble Not available.

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

< 1 %

Viscosity: Decomposition temperature:

Not available. Not available.

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of storage and use.

Hazardous reactions: Hazardous polymerization can occur.

Hazardous decomposition

products:

Oxides of nitrogen. Oxides of carbon. Irritating vapors.

Incompatible materials: Strong acids and strong bases. Strong oxidizing agents.

Reactivity: Not available.

Elevated temperatures. Heat, flames, sparks and other sources of ignition. Store away from Conditions to avoid:

incompatible materials.

11. TOXICOLOGICAL INFORMATION

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

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. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects Allergen, Eyes, Irritant, Respiratory, Skin	
Silver violes steine buttong to prive	Oral LD50 (RAT) = > 5,000 mg/kg Dermal LD50 (RAT) = > 2,000 mg/kg		
Epoxy resin	None Serveria	Allergen, Irritant	
Epoxy resin	None	Irritant, Allergen	
Epoxy resin modifier	None	Irritant, Allergen	
Dapsone	None	Allergen, Blood, Eyes, Irritant, Kidney, Nervous System, Skin	

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Silver	No	eno// No	No notice
Epoxy resin	No sidens	No	No and tobe
Epoxy resin	No	No	No
Epoxy resin modifier	No OPERING	No	No
Dapsone	No Plant Shake and	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:

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: Packing group:

UN 3082

Water Transportation (IMO/IMDG)

Proper shipping name:

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

Hazard class or division:

III

Identification number:

UN 3082

Packing group:

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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.

Prepared by:

Sheila Gines, Regulatory Affairs Specialist

Issue date:

12/31/2014

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15. REGULATORY INFORMATION

All components are listed or are exempt from listing on the Toxic Substences Control Adl Inventory

None above reporting de minimis

None above reporting de minimis

Hon 313 of the Emergency Planning and Community Right-To-Knew Act of 1986 (40 R 372). Silver (CAS# 7440-22-4). Ver (CAS# 7440-22-4) 1,000 lbs. (454 kg)

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16. OTHER INFORMATION