Material Safety Data Sheet



Revision Number: 002.1 Issue date: 12/21/2011

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Ablebond 8175 (5011) IDH number: 1204285

Product type: Epoxy adhesive

Region: United States

Company address: Contact information:

Henkel Electronic Materials LLC

14000 Jamboree Road

Irvine, CA 92606

Telephone: 1.888.9.HENKEL (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.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

 HMIS:

 Physical state:
 Liquid, Paste
 HEALTH:
 *2

 Color:
 Silver
 FLAMMABILITY:
 1

Odor: Slight PHYSICAL HAZARD: 1

Personal Protection: See MSDS Section 8

WARNING: MAY CAUSE ALLERGIC SKIN REACTION.

MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

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

Potential Health Effects

Inhalation: May cause respiratory tract irritation. Inhalation may result in metal fume fever. Metal fume

fever has flu-like symptoms including fever, chills, perspiration, cough, nasal irritation, chest

pain, nausea, head ache, vomiting and muscular weakness.

Skin contact: 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).

Eye contact: May cause irritation.

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

Existing conditions aggravated by

exposure:

Not available.

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR

1910.1200).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components	CAS NUMBER	%
Silver	7440-22-4	60 - 100
Epoxy resin	Proprietary	10 - 30
Epoxy resin	Proprietary	5 - 10
Epoxy resin modifier	Proprietary	1 - 5
Carbamide	Proprietary	1 - 5

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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. Never give anything by mouth to an unconscious

person. Get medical attention.

5. FIRE FIGHTING MEASURES

Flash point: > 93 °C (> 199.4 °F)

Autoignition temperature:

Flammable/Explosive limits - lower:

Not applicable

Flammable/Explosive limits - upper:

Not applicable

Extinguishing media: Foam, dry chemical or carbon dioxide. Do not use water.

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

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.

Hazardous combustion products: Oxides of carbon. Oxides of nitrogen. Toxic and 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.

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 disposal. Refer to Section 8 "Exposure Controls / Personal Protection" prior to

clean up.

7. HANDLING AND STORAGE

Handling: Use only with adequate ventilation. Keep away from heat, spark and flame.

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 components	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Silver	0.1 mg/m3 TWA Dust and fume.	0.01 mg/m3 TWA (as Ag)	None	None
Epoxy resin	None	None	None	None
Epoxy resin	None	None	None	None
Epoxy resin modifier	None	None	None	None
Carbamide	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: Liquid, Paste Color: Silver Odor: Slight Not available. Odor threshold: Not available. pH: Vapor pressure: Not applicable Boiling point/range: Not available. Melting point/ range: Not available.

Specific gravity:

Vapor density: Not applicable Flash point: > 93 °C (> 199.4 °F) Flammable/Explosive limits - lower: Not applicable Flammable/Explosive limits - upper: Not applicable Autoignition temperature: Not available. **Evaporation rate:** Not available. Solubility in water: Insoluble Partition coefficient (n-octanol/water): Not applicable VOC content: Not available.

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of storage and use.

Hazardous reactions: None under normal processing.

Hazardous decomposition products: Oxides of carbon. Oxides of nitrogen. Irritating vapors.

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

Peroxides. Halogenated compounds. Silver acetylene and ethylenimine form explosive compounds with silver. If silver is treated with nitric acid in the presence of ethyl alcohol, silver fulminate can be formed which can be

detonated. Bromoazide explodes on contact with silver foil.

Conditions to avoid: Elevated temperatures. Store away from incompatible materials.

11. TOXICOLOGICAL INFORMATION

Hazardous components	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
Carbamide	No	No	No

Hazardous components	Health Effects/Target Organs
Silver	Allergen, Eyes, Irritant, Respiratory, Skin
Epoxy resin	Irritant, Allergen
Epoxy resin	No Records
Epoxy resin modifier	Irritant, Allergen
Carbamide	No Data

12. ECOLOGICAL INFORMATION

Ecological information: Do not empty into drains / surface water / ground water.

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 (Check TCLP Level).

14. TRANSPORT INFORMATION

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name: Environmentally hazardous substances, liquid, n.o.s.

Hazard class or division:

Identification number:

Packing group:

DOT Reportable quantity:

9

UN 3082

III

Silver

International Air Transportation (ICAO/IATA)

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s.

Hazard class or division: 9
Identification number: UN 3082
Packing group: III

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: 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 minimus

CERCLA/SARA Section 302 EHS:

CERCLA/SARA Section 311/312:

None above reporting de minimus

Immediate Health, Delayed Health

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CERCLA/SARA 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.

WHMIS hazard class: D.2.B

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: New Material Safety Data Sheet format.

Prepared by: Tricia Voghell, Regulatory Affairs Specialist

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