

Revision Number: 006.0 Issue date: 10/30/2019

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: LOCTITE ABLESTIK 2200D known as IDH number: 1204802

Ablebond 2200D (9.3g),

Product type/use: Conductive adhesive

Restriction of Use: None identified Region: United States

Company address:Contact information:Henkel CorporationTelephone: +1 (860) 571-5100

One Henkel Way

MEDICAL EMERGENCY Phone: Poison Control Center
Rocky Hill, Connecticut 06067

1-877-671-4608 (tollfree) or 1-303-592-1711

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: w ww.henkelna.com

This product contains one or more components that are exempt from listing on the U.S. Toxic Substances Control Act (TSCA) inventory because a Low Volume Exemption (LVE) has been granted in accordance with 40 CFR 723.50. Quantities may be limited. This product is not and cannot be distributed in commerce (as defined in TSCA section 3(5)) or processed (as defined in TSCA section 3(13)) for consumer paint or coating removal. Please contact Henkel Product Safety & Regulatory Affairs for further information.

2. HAZARDS IDENTIFICATION

	EMERGENCY OVERVIEW
DANGER:	CAUSES SKIN IRRITATION. MAY CAUSE AN ALLERGIC SKIN REACTION. CAUSES SERIOUS EYE IRRITATION. MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS OR BREATHING DIFFICULTIES IF INHALED.
	SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD. MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE.

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

PICTOGRAM(S)



Precautionary Statements

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been

read and understood. Do not breathe vapors, mist, or spray. Wash affected area thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, clothing, eye and face protection. In case of inadequate ventilation wear

respiratory protection.

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Response: IF ON SKIN: Wash with plenty of water. IF INHALED: If breathing is difficult, remove victim to

fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical attention. If skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical attention. Take off contaminated

clothing.

Storage: Store locked up.

Dispose of contents and/or container according to Federal, State/Provincial and local

governmental regulations.

1 % of the mixture consists of ingredient(s) of unknown acute toxicity.

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 - 80	
Bismaleimide monomer	Unknow n	5 - 10	
Carbamate Resin	Unknow n	1 - 5	
Epoxy resin	Unknow n	1 - 5	
Epoxy resin	Proprietary	1 - 5	
Toluene	108-88-3	1 - 5	
RP M-TMI /2-Decyltetradecyl alcohol	Unknow n	1-5	
2-Heptyl-3,4-bis(9-isocyanatononyl)-1-pentylcyclohexane	68239-06-5	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

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 w ith plenty of w ater (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.

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 $% \left(1\right) =\left(1\right) \left(1\right)$

attention.

Symptoms: See Section 11.

5. FIRE FIGHTING MEASURES

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

Special fire fighting 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.

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Hazardous combustion products:

Oxides of carbon. Oxides of nitrogen. Oxides of Metals in Section 3. Toxic and

irritating vapors.

6. ACCIDENTAL RELEASE MEASURES

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

Environmental precautions: Do not allow product to enter sew er or waterways.

Clean-up methods: Evacuate and ventilate spill area; dike spill to prevent entry into water system;

w ear 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, saw dust). Scrape

up spilled material and place in a closed container for 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.

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
Silver	0.1 mg/m3 TWA Dust and fume.	0.01 mg/m3 PEL (as Ag)	None	None
Bismaleimide monomer	None	None	None	None
Carbamate Resin	None	None	None	None
Epoxy resin	None	None	None	None
Epoxy resin	None	None	None	None
Toluene	20 ppm TWA	200 ppm TWA 300 ppm Ceiling 500 ppm MAX. CONC 10 minutes	None	None
RP M-TMI /2-Decyltetradecyl alcohol	None	None	None	None
2-Heptyl-3,4-bis(9-isocyanatononyl)-1- pentylcyclohexane	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. Eyew ash fountains and

emergency show ers are required. Full face protection should be used if the

potential for splashing or spraying of product exists.

Skin protection: Use chemical resistant, impermeable clothing including gloves and either an

apron or body suit to prevent skin contact.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Paste Color: Silver Odor: Slight

Odor threshold: Not available. pH: Not available. . Vapor pressure: Not applicable Boiling point/range: Not available. Melting point/ range: Not available. Specific gravity:

Vapor density: Not available.

> 93 °C (> 199.4 °F) Flash point: Flam mable/Explosive limits - low er: Not available.

Flam mable/Explosive limits - upper: Not available. Autoignition temperature: Not available. Flam mability: Not applicable Evaporation rate: Not available. Solubility in water: Insoluble Partition coefficient (n-octanol/water): Not available. **VOC** content: < 1 %

Viscosity: Not available.

Decomposition temperature: Not available.

10. STABILITY AND REACTIVITY

Stability: Stable at normal conditions.

Hazardous reactions: None under normal processing.

Hazardous decomposition

products:

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Oxides of carbon. Oxides of nitrogen. Oxides of Metals in Section 3. Toxic fumes. Irritating

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

Reactivity: Not available.

Conditions to avoid: 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

May cause respiratory tract irritation. Coughing. Shortness of breath. May cause allergic Inhalation:

respiratory reaction.

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). Causes serious eye irritation. Redness. Tearing. Skin contact:

Eye contact: Ingestion: May cause gastrointestinal tract irritation if sw allowed.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects	
Silver	Oral LD50 (Rat) = > 5,000 mg/kg Dermal LD50 (Rat) = > 2,000 mg/kg Inhalation LC50 (Rat, 4 h) = > 5.16 mg/l Inhalation LC50 (Rat, 4 h) = 750 µg/m3	Allergen, Eyes, Irritant, Respiratory, Skin	
Bismaleimide monomer	None	No Data	
Carbamate Resin	None	No Data	
Epoxy resin	None	No Data	
Epoxy resin	None	Irritant	
Toluene	Oral LD50 (Rat) = 2.6 g/kg Dermal LD50 (Rabbit) = 12,124 mg/kg	Behavioral, Cardiac, Central nervous system, Developmental, Ear, Irritant	
RP M-TMI /2-Decyltetradecyl alcohol	None	No Data	
2-Heptyl-3,4-bis(9-isocyanatononyl)-1- pentylcyclohexane	None	No Data	

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Silver	No	No	No
Bismaleimide monomer	No	No	No
Carbamate Resin	No	No	No
Epoxy resin	No	No	No
Epoxy resin	No	No	No
Toluene	No	No	No
RP M-TMI /2-Decyltetradecylalcohol	No	No	No
2-Heptyl-3,4-bis(9-isocyanatononyl)-1- pentylcyclohexane	No	No	No

12. ECOLOGICAL INFORMATION

Ecological information:

IDH number: 1204802

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). D018: Benzene

(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 substance, liquid, n.o.s.

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

DOT Hazardous Substance(s): Silver

International Air Transportation (ICAO/IATA)

Proper shipping name: RQ, Environmentally hazardous substance, liquid, n.o.s. (Silver)

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

Water Transportation (IMO/IMDG)

Proper shipping name: RQ, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Silver)

Hazard class or division:

Identification number:

Packing group:

Marine pollutant:

9

UN 3082

III

Silver

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status: This product contains one or more components that are exempt from listing on the U.S.

Toxic Substances Control Act (TSCA) inventory because a Low Volume Exemption (LVE) has been granted in accordance with 40 CFR 723.50. Quantities may be limited.

TSCA 6 Risk Management Rules This product is not and cannot be distributed in commerce (as defined in TSCA section

3(5)) or processed (as defined in TSCA section 3(13)) for consumer paint or coating removal. Please contact Henkel Product Safety & Regulatory Affairs for further

information.

TSCA 12 (b) Export Notification: None above reporting de minimis

CERCLA/SARA Section 302 EHS:

IDH number: 1204802

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). Toluene (CAS# 108-88-3).

CERCLA Reportable quantity: Silver (CAS#7440-22-4) 1,000 lbs. (454 kg)

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

IDH number: 1204802

CEPA DSL/NDSL Status: One or more components are not listed on, and are not exempt from listing on either the

Domestic Substances List or the Non-Domestic Substances List.

16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: 1,2,3,7,11,15

Prepared by: Product Safety and Regulatory Affairs

Issue date: 10/30/2019

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