

Revision Number: 002.0

Issue date: 11/25/20

1. PRODUCT AND COMPANY IDENTIFICATION

Product name:Silver Conductive 402 Part-RProduct type/use:IntermediateRestriction of Use:None identifiedCom pany address:Henkel CorporationOne Henkel WayRocky Hill, Connecticut 06067

IDH num ber:

2022430

Region:United StatesContact information:Telephone: +1 (860) 571-5100MEDICAL EMERGENCY Phone: Poison Control Center1-877-671-4608 (toll free) or 1-303-592-1711TRANSPORT EMERGENCY Phone: CHEMTREC1-800-424-9300 (toll free) or 1-703-527-3887Internet: w ww.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW		
WARNING:	COMBUSTIBLE LIQUID.	
	CAUSES SKIN IRRITATION.	
	MAY CAUSE AN ALLERGIC SKIN REACTION.	
	CAUSES SERIOUS EYE IRRITATION.	
	SUSPECTED OF CAUSING GENETIC DEFECTS.	
	SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD.	

HAZARD CLASS	HAZARD CATEGORY
FLAMMABLE LIQUID	4
SKIN IRRITATION	2
EYEIRRITATION	2A
SKIN SENSITIZATION	1
GERM CELL MUTAGENICITY	2
REPRODUCTIVE TOXICITY	2

PICTOGRAM(S)	

Precautionary Statements

Prevention:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep aw ay fromheat, sparks, open flames, hot surfaces - no smoking. Avoid breathing vapors, mist, or spray. Wash affected area thoroughly after handling. Contaminated w ork clothing should not be allow ed out of the w orkplace. Wear protective gloves, clothing, eye and face protection.
Response:	IF ON SKIN: Wash with plenty of water. 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. In case of fire: Use foam, dry chemical or carbon dioxide to extinguish.
Storage:	Store in a w ell-ventilated place. Keep cool. Store locked up.
Disposal:	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)	CASNumber	Percentage*	
Silver	7440-22-4	60 - 80	
Epoxy resin	Proprietary	10 - 30	
butyl glycidyl ether	2426-08-6	1 - 5	
Epoxy resin	Proprietary	1 - 5	
Epoxy resin	Proprietary	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 with plenty of water (using soap, if available). Remove contaminated clothing and footwear. If symptoms develop and persist, get medical attention. Wash clothing 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. Never give anything by mouth to an unconscious person. Get medical attention.	
Symptoms:	See Section 11.	
5. F	RE FIGHTING MEASURES	
Extinguishing media:	Water spray (fog), foam, dry chemical or carbon dioxide.	
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 extreme heat. Vapors are heavier than air and may travel along floor to an ignition source.	
Hazardous combustion products:	Oxides of carbon. 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:	Remove all sources of ignition. Ensure adequate ventilation. Isolate area. Keep unnecessary personnel away. Soak up w ith inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, saw dust). 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:

Remove all sources of ignition. 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 between 15 °C (59°F) and 30 °C (86°F) Keep in a cool, w ell 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
butyl glycidyl ether	3 ppm TWA (SKIN) (Dermal sensitization)	50 ppm (270 mg/m3) PEL	None	None
Epoxy resin	None	None	None	None
Epoxy resin	None	None	None	None

Engineering controls:Provide adequate local exhaust ventilation to maintain w orker 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
show ers 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:	Liquid, Paste
Color:	Silver
Odor:	Mild
Odor threshold:	Not available.
pH:	Not available.
Vapor pressure:	Not available.
Boiling point/range:	Not available.
Meltingpoint/range:	Not available.
Specific gravity:	2.8
Vapor density:	Not available.
Flash point:	87.5 °C (189.5 °F) Setaflash Closed Cup; Estimated
Flammable/Explosive limits - lower:	Not available.
Flammable/Explosive limits - upper:	Not available.
Autoignition temperature:	Not available.
Flam m ability:	Not applicable
Evaporation rate:	Not available.
Solubility in water:	Negligible
Partition coefficient (n-octanol/water):	Not available.
VOC content:	< 1 %
Viscosity:	Not available.
Decomposition temperature:	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 Metals in Section 3. Irritating organic vapours.	
Incompatible materials:	Strong oxidizing agents. Strong acids and strong bases. Amines. Ammonia. Hydrogen peroxide.	
Reactivity:	Not available.	
Conditions to avoid:	High temperatures. Store aw ay from incompatible materials. Heat, flames, sparks and other sources of ignition.	

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:	Causes serious eye irritation.
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 Inhalation LC50 (Rat) = > 2,000 mg Inhalation LC50 (Rat, 4 h) = > 5. Inhalation LC50 (Rat, 4 h) = > 5.		Allergen, Eyes, Irritant, Respiratory, Skin
Epoxy resin	None	Allergen, Irritant
butyl glycidyl ether	Oral LD50 (Rat) = 2,000 mg/kg Oral LD50 (Rat) = 2.05 g/kg Oral LD50 (Mouse) = 1.53 g/kg Dermal LD50 (Rabbit) = 0.788 g/kg	Irritant, Allergen, Central nervous system, Liver, Mutagen
Epoxy resin	None	Allergen, Irritant
Epoxy resin	None	No Data

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Silver	No	No	No
Epoxy resin	No	No	No
butyl glycidyl ether	No	No	No
Epoxy resin	No	No	No
Epoxy resin	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 s package/configuration.	ection only applies to the material/formulation itself, and is not specific to an y		
U.S. Department of Transportation Ground (49 CFR) Proper shipping name: Combustible liquid, n.o.s. (n-Butyl glycidyl ether) Hazard class or division: Combustible Liquid Identification number: NA 1993 Packing group: III DOT Hazardous Substance(s): Silver			
International Air Transportation (ICAO/IATA Proper shipping name: Hazard class or division: Identification number: Packing group:) Environmentally hazardous substance, liquid, n.o.s. 9 UN 3082 III		
Water Transportation (IMO/IMDG) Proper shipping name: Hazard class or division: Identification number: Packing group:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. 9 UN 3082 III		

15. REGULATORY INFORMATION

United States Regulatory Information

CEPA DSL/NDSL Status:	All components are listed on or are exempt from listing on the Canadian Domestic Substances List.
Canada Regulatory Information	
California Proposition 65:	This product contains a chemical know n in the State of California to cause cancer. This product contains a chemical know n to the State of California to cause birth defects or other reproductive harm.
CERCLA Reportable quantity:	CFR 372). Silver (CAS# 7440-22-4). Silver (CAS# 7440-22-4) 1,000 lbs. (454 kg)
CERCLA/SARA Section 302 EHS: CERCLA/SARA Section 311/312: CERCLA/SARA Section 313:	None above reporting de minimis. Fire, Immediate Health, Delayed Health This product contains the follow ing toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40
TSCA 12 (b) Export Notification:	None above reporting de minimis
TSCA 8 (b) Inventory Status:	All components are listed as active or are exempt from listing on the Toxic Substances Control Act (TSCA) inventory.

16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: 2,3,7,13,15

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