



Revision Number: 001.0

Issue date: 12/15/2021

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: LOCTITE ABLESTIK ICP 3510
Product type/use: Epoxy adhesive
Restriction of Use: None identified
Company address:
 Henkel Corporation
 One Henkel Way
 Rocky Hill, Connecticut 06067

IDH number: 2623065
Item number: X
Region: United States
Contact information:
 Telephone: +1 (860) 571-5100
 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

WARNING: CAUSES SKIN IRRITATION.
 MAY CAUSE AN ALLERGIC SKIN REACTION.
 CAUSES SERIOUS EYE IRRITATION.
 SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD.

HAZARD CLASS	HAZARD CATEGORY
SKIN IRRITATION	2
EYE IRRITATION	2A
SKIN SENSITIZATION	1
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. Avoid breathing dust or fumes. 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.

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.

Storage: 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)	CAS Number	Percentage*
Copper	7440-50-8	60 - 90
Silver	7440-22-4	10 - 30

Epichlorohydrin-4,4'-isopropylidene diphenol resin	25068-38-6	5 - 10
Bisphenol-F Epichlorohydrin resin	9003-36-5	5 - 10
Trimethylolpropane triglycidyl ether	30499-70-8	1 - 5
Xylenes	1330-20-7	0.1 - 1
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	68609-97-2	0.1 - 1
Ethylbenzene	100-41-4	0.1 - 1
4,4'-Isopropylidenediphenol	80-05-7	0.1 - 1
2-methoxy-1-methylethyl acetate	108-65-6	0.1 - 1
Gamma-glycidoxypropyl trimethoxysilane	2530-83-8	0.1 - 1
2-Propanol	67-63-0	0.1 - 1
Ethanol	64-17-5	0.1 - 1
tetrasodium ethylene diamine tetraacetate	13235-36-4	0.1 - 1
Sodium EDTA	64-02-8	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:	If not breathing, give artificial respiration. If breathing is difficult, oxygen should be administered by qualified personnel. Move to fresh air. If symptoms persist, seek medical advice.
Skin contact:	Rinse with running water and soap. Remove contaminated clothing and shoes. If symptoms develop and persist, get medical attention. Wash contaminated clothing before reuse. Thoroughly clean shoes before reuse. Discard any shoes or clothing items that cannot be decontaminated.
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek medical attention immediately.
Ingestion:	Seek immediate medical attention. Do not induce vomiting. Never give anything by mouth to an unconscious person.
Symptoms:	See Section 11.

5. FIRE FIGHTING MEASURES

Extinguishing media:	Water spray or fog. Alcohol-resistant foam. Dry chemical. Carbon dioxide. Do not use high volume water jet.
Special firefighting procedures:	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.
Unusual fire or explosion hazards:	Formation of toxic gases is possible during heating or in fires. Closed containers may rupture (due to build up of pressure) when exposed to extreme heat. In case of fire, keep containers cool with water spray. Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products:	Oxides of carbon. Oxides of nitrogen. Oxides of sulfur. Oxides of phosphorus. Halogenated compounds. Aldehydes. Organic compounds. Toxic and irritating gases.

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.
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Clean-up methods:

Ensure adequate ventilation. Remove all sources of ignition. Wear appropriate personal protective equipment. Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up. Dike the spilled material, where this is possible. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Scrape up spilled material and place in a closed container for disposal. Use only non-sparking tools. Avoid dust formation. Thoroughly wash the area with water after a spill or leak clean-up. Do not empty into drains / surface water / ground water / soil.

7. HANDLING AND STORAGE

Handling:

Use only with adequate ventilation. Remove all sources of ignition. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Prolonged or repeated skin contact should be avoided to minimise any risk of sensitisation. Wear suitable protective clothing, safety glasses and gloves. See Section 8 of the SDS for Personal Protective Equipment. Remove clothing and protective equipment contaminated before entering in food areas. Launder work clothes frequently. Do not taste or swallow. When using do not eat, drink or smoke. Keep container closed. Avoid any condition that will suspend or float powder particles in the air creating a dust cloud. Reduce all potential of static electrical discharge through bonding and grounding. Keep away from heat, spark and flame.

Storage:

Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials. Store away from incompatible materials identified in section 10. Store in a dry place. Keep away from heat, spark and flame. Store in original container until ready to use. 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
Copper	0.2 mg/m ³ TWA (as Cu) Fume. 1 mg/m ³ TWA (as Cu) Dust and mist.	1 mg/m ³ PEL (as Cu) Dust and mist. 0.1 mg/m ³ PEL (as Cu) Fume.	None	None
Silver	0.1 mg/m ³ TWA Dust and fume.	0.01 mg/m ³ PEL (as Ag)	None	None
Epichlorohydrin-4,4'-isopropylidene diphenol resin	None	None	None	None
Bisphenol-F Epichlorohydrin resin	None	None	None	None
Trimethylolpropane triglycidyl ether	None	None	None	None
Xylenes	100 ppm TWA 150 ppm STEL	100 ppm (435 mg/m ³) PEL	None	None
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	None	None	None	None
Ethylbenzene	20 ppm TWA	100 ppm (435 mg/m ³) PEL	None	None
4,4'-Isopropylidenediphenol	None	None	None	None
2-methoxy-1-methylethyl acetate	None	None	50 ppm TWA	None
Gamma-glycidioxypropyl trimethoxysilane	None	None	None	None
2-Propanol	200 ppm TWA 400 ppm STEL	400 ppm (980 mg/m ³) PEL	None	None
Ethanol	1,000 ppm STEL	1,000 ppm (1,900 mg/m ³) PEL	None	None
tetrasodium ethylene diamine tetraacetate	None	None	None	None
Sodium EDTA	None	None	None	None

Engineering controls:

Use local ventilation if general ventilation is insufficient to maintain vapor concentration below established 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 chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact.
General protection and hygiene measures:	Good industrial hygiene practices should be observed. Use only in well ventilated areas.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Solid
Color:	Copper
Odor:	Aromatic
Odor threshold:	Not available.
pH:	Not available.
Vapor pressure:	Not available.
Boiling point/range:	Not available.
Melting point/ range:	Not available.
Specific gravity:	3.4
Vapor density:	Not available.
Flash point:	75 °C (167°F)
Flammable/Explosive limits - lower:	Not available.
Flammable/Explosive limits - upper:	Not available.
Autoignition temperature:	Not available.
Flammability:	Not applicable
Evaporation rate:	Not available.
Solubility in water:	Insoluble
Partition coefficient (n-octanol/water):	Not available.
VOC content:	Not available.
Viscosity:	20 mPa.s
Decomposition temperature:	Not available.

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions of storage and use. 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 nitrogen. Oxides of phosphorus. Oxides of sulfur. Aldehydes. Halogenated compounds. Organic compounds. Hydrogen. Irritating and toxic gases or fumes may be released during a fire. Oxides of carbon. None known.
Incompatible materials:	Oxidizing agents. Acids and bases. Amines. Primary and secondary aliphatic amines. Strong alkalis. Ammonia. Acid anhydrides. Organic peroxides. Reaction with metals: production of hydrogen. Reaction with strong acids.
Reactivity:	Not available.
Conditions to avoid:	High temperatures. Keep away from heat, ignition sources and incompatible materials. Protect from direct sunlight. Avoid dust formation. Take measures to prevent the build-up of electrostatic charges. Humidity. Exposure to air or moisture over prolonged periods. Exposure to light. Stable

11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure:	Skin, Inhalation, Eyes, Ingestion
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Potential Health Effects/Symptoms

Inhalation:	Inhalation of vapors or mists of the product may be irritating to the respiratory system. Can cause central nervous system effects like dizziness, drowsiness, headache, and nausea.
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:	Not expected under normal conditions of use. May cause gastrointestinal tract irritation if swallowed. Ingestion of this product may result in central nervous system effects including headache, sleepiness, dizziness, slurred speech and blurred vision.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Copper	Inhalation LC50 (Rat, 4 h) = > 5.11 mg/l	Allergen, Blood, Central nervous system, Developmental, Gastrointestinal, Immune system, Irritant, Kidney, Liver, Mutagen, Sensory, Skin
Silver	Oral LD50 (Rat) = > 5,000 mg/kg Dermal LD50 (Rat) = > 2,000 mg/kg Inhalation LC50 (Rat, 4 h) = 750 µg/m3 Inhalation LC50 (Rat, 4 h) = > 5.16 mg/l	Allergen, Eyes, Irritant, Respiratory, Skin
Epichlorohydrin-4,4'-isopropylidene diphenol resin	None	Allergen, Irritant
Bisphenol-F Epichlorohydrin resin	None	Allergen, Irritant
Trimethylolpropane triglycidyl ether	None	Irritant, Allergen
Xylenes	Oral LD50 (Rat) = 6,670 mg/kg Oral LD50 (Rat) = 3,523 - 8,600 mg/kg Oral LD50 (Rat) = 4,300 mg/kg Dermal LD50 (Rabbit) = > 43 g/kg Inhalation LC50 (Rat, 4 h) = 6580 ppm Inhalation LC50 (Rat, 4 h) = 6247 ppm Inhalation LC50 (Rat, 4 h) = 5922 ppm Inhalation LC50 (Rat, 4 h) = 6700 ppm Inhalation LC50 (Rat, 4 h) = 6350 ppm	Cardiac, Central nervous system, Irritant, Kidney, Liver
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	None	Irritant, Allergen, Mutagen
Ethylbenzene	Oral LD50 (Rat) = 5.46 g/kg Oral LD50 (Rat) = 3,500 mg/kg Dermal LD50 (Rabbit) = 17,800 mg/kg Inhalation LC50 (Rat, 4 h) = 4000 ppm	Irritant, Central nervous system
4,4'-Isopropylidenediphenol	Oral LD50 (Rat) = 4,100 mg/kg Oral LD50 (Rat) = 3,300 mg/kg	Allergen, Blood, Irritant, Kidney, Reproductive, Spleen
2-methoxy-1-methylethyl acetate	None	Irritant, Central nervous system
Gamma-glycidoxypropyl trimethoxysilane	Inhalation LC50 (Rat, 4 h) = > 5.3 mg/l	Allergen, Irritant
2-Propanol	Oral LD50 (Rat) = 5,045 mg/kg Oral LD50 (Mouse) = 3,600 mg/kg Oral LD50 (Rabbit) = 6,410 mg/kg Oral LD50 (Rat) = 4.7 g/kg Oral LD50 (Mouse) = 4.5 g/kg Oral LD50 (Rabbit) = 8.0 g/kg Oral LD50 (Rabbit) = 5.03 g/kg Dermal LD50 (Rabbit) = 12,800 mg/kg	Allergen, Central nervous system, Irritant
Ethanol	Oral LD50 (Rat) = 9.9 g/kg Oral LD50 (Rat) = 6.2 g/kg Oral LD50 (Rat) = 17.8 g/kg Oral LD50 (Rat) = 11.5 g/kg Oral LD50 (Mouse) = 3,450 mg/kg Oral LD50 (Rat) = 10.6 g/kg Oral LD50 (Rat) = 7,060 mg/kg Inhalation LC50 (Rat, 4 h) = 133.8 mg/l Inhalation LC50 (Rat, 4 h) = 124.7 mg/l Inhalation LC50 (Rat, 4 h) = > 115.9 mg/l Inhalation LC50 (Rat, 4 h) = 130.7 mg/l Inhalation LC50 (Rat, 4 h) = 128.2 mg/l Inhalation LC50 (Rat, 4 h) = 116.9 mg/l Inhalation LC50 (Mouse, 4 h) = 39 mg/l	Central nervous system, Irritant
tetrasodium ethylene diamine tetraacetate	None	No Records
Sodium EDTA	Oral LD50 (Rat) = > 2,000 mg/kg	Irritant

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
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Copper	No	No	No
Silver	No	No	No
Epichlorohydrin-4,4'-isopropylidene diphenol resin	No	No	No
Bisphenol-F Epichlorohydrin resin	No	No	No
Trimethylolpropane triglycidyl ether	No	No	No
Xylenes	No	No	No
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	No	No	No
Ethylbenzene	No	Group 2B	No
4,4'-Isopropylidenediphenol	No	No	No
2-methoxy-1-methylethyl acetate	No	No	No
Gamma-glycidoxypopyl trimethoxysilane	No	No	No
2-Propanol	No	No	No
Ethanol	No	No	No
tetrasodium ethylene diamine tetraacetate	No	No	No
Sodium EDTA	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.

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, solid, n.o.s.
Hazard class or division: 9
Identification number: UN 3077
Packing group: III
DOT Hazardous Substance(s): Copper, Silver

International Air Transportation (ICAO/IATA)

Proper shipping name: RQ, Environmentally hazardous substance, solid, n.o.s. (Silver)
Hazard class or division: 9
Identification number: UN 3077
Packing group: III

Water Transportation (IMO/IMDG)

Proper shipping name: RQ, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Silver)
Hazard class or division: 9
Identification number: UN 3077
Packing group: III
Marine pollutant: Silver

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status: All components are listed as active or are exempt from listing on the Toxic Substances Control Act (TSCA) 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). Copper (CAS# 7440-50-8). Silver (CAS# 7440-22-4). Ethylbenzene (CAS# 100-41-4).

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**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: First issue.

Prepared by: Product Safety and Regulatory Affairs

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