

Revision Number: 004.0 Issue date: 11/20/2019

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: LOCTITE ECI 5005 0.2KG E&C **IDH** number:

Product type/use:

None identified

Restriction of Use:

Company address: Henkel Corporation One Henkel Way

Rocky Hill, Connecticut 06067

United States Region:

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

1968011

1-800-424-9300 (toll free) or 1-703-527-3887

Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

WARNING: COMBUSTIBLE LIQUID.

CAUSES SKIN IRRITATION.

CAUSES SERIOUS EYE IRRITATION.

HARMFUL IF INHALED.

MAY CAUSE RESPIRATORY IRRITATION.

HAZARD CLASS	HAZARD CATEGORY
FLAMMABLE LIQUID	4
ACUTE TOXICITY INHALATION	4
SKIN IRRITATION	2
EYE IRRITATION	2A
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	3

PICTOGRAM(S)



Precautionary Statements

Prevention: Keep away from heat, sparks, open flames, hot surfaces - no smoking. Avoid breathing vapors,

mist, or spray. Wash affected area thoroughly after handling. Use only outdoors or in a well-

ventilated area. Wear protective gloves, eye protection, and face protection.

IF ON SKIN: Wash with plenty of water. IF INHALED: Remove victim to fresh air and keep at Response: rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel

unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation 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 well-ventilated place. Keep container tightly closed. Store in a well-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)	CAS Number	Percentage*
Cyclohexanol	108-93-0	60 - 80
Propane-1,2-diol	57-55-6	10 - 30
n-Butyl alcohol	71-36-3	1 - 5
Silver Nanowires	7440-22-4	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. 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

attention.

Symptoms: See Section 11.

5. FIRE 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 to

extreme heat.

Hazardous combustion products: Oxides of carbon. Oxides of Metals in Section 3. Toxic fumes. 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: Remove all sources of ignition. Ensure adequate ventilation. Isolate area.

Keep unnecessary personnel away. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). 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: 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 between 2 °C (35.6 °F) and 8 °C (46.4 °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. Refrigerated storage is recommended to maintain product

quality.

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
Cyclohexanol	(SKIN) 50 ppm TWA	50 ppm (200 mg/m3) PEL	None	None
Propane-1,2-diol	None	None	10 mg/m3 TWA Aerosol.	None
n-Butyl alcohol	20 ppm TWA	100 ppm (300 mg/m3) PEL	None	None
Silver Nanowires	0.1 mg/m3 TWA Dust and fume.	0.01 mg/m3 PEL (as Ag)	None	None

Engineering controls: Provide adequate local exhaust ventilation to maintain worker 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

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid Color: Grav Odor: Alcohol Odor threshold: Not available. Not applicable pH: Not available. Vapor pressure: Boiling point/range: Not applicable Melting point/ range: Not available. Specific gravity: 0.97

Vapor density:Not available.Flash point:65 °C (149°F)

Flashback: This product exhibits no flashback when tested for flame extension.

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: Soluble Not available. Partition coefficient (n-octanol/water): **VOC** content: 980 g/l (calculated)

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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.

Hazardous decomposition

products:

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

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

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

Inhalation: May cause respiratory tract irritation. May cause central nervous system effects with nausea,

dizziness and headache. Harmful if inhaled.

Skin contact: Causes skin irritation.

Eye contact: Causes serious eye irritation. Redness. Tearing.

Ingestion: May cause gastrointestinal tract irritation if swallowed. This product contains nanoparticles. The

particle size-related health effects of nanoparticles have not been fully investigated.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects Brain, Central nervous system, Developmental, Heart, Irritant, Kidney, Liver, Reproductive	
Cyclohexanol	Oral LD50 (Rabbit) = 2.2 g/kg Oral LD50 (Rat) = 2.06 g/kg		
Propane-1,2-diol	Oral LD50 (Rabbit) = 18 g/kg Oral LD50 (Mouse) = 23.9 g/kg Oral LD50 (Rat) = 30 g/kg	Irritant	
n-Butyl alcohol	Oral LD50 (Rat) = 790 mg/kg Dermal LD50 (Rabbit) = 3,400 mg/kg	Allergen, Central nervous system, Ear, Eyes, Irritant	
Silver Nanowires	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	No Data	

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Cyclohexanol	No	No	No
Propane-1,2-diol	No	No	No
n-Butyl alcohol	No	No	No
Silver Nanowires	No	No	No

12. ECOLOGICAL INFORMATION

Ecological information: Not available.

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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 may contain traces of: D011. Silver. However this product is only

classifiable as hazardous waste if it exhibits the characteristics of toxicity as shown by the toxicity characteristic leaching procedure (TCLP). Under RCRA, it is the responsibility of the end user of this product to determine whether it

meets this criteria at the time of 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: Combustible liquid, n.o.s. (1-Butanol)

Hazard class or division: Combustible Liquid

Identification number: NA 1993 Packing group: Ш

International Air Transportation (ICAO/IATA)

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

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

Water Transportation (IMO/IMDG)

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

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

Marine pollutant: Silver

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: Fire, Immediate 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). Cyclohexanol (CAS# 108-93-0). n-Butyl alcohol (CAS# 71-36-3).

California Proposition 65: No California Proposition 65 listed chemicals are known to be present.

Canada Regulatory Information

CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the Canadian Domestic

Substances List.

16. OTHER INFORMATION

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

Prepared by: Product Safety and Regulatory Affairs

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