

Revision Number: 005.0 Issue date: 04/10/2015

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: LOCTITE GC 10 SAC305T4 885V 52U IDH number: 1993881

Product type: Solder Paste

Restriction of Use: None identified Region: United States

Company address:

ny address:

Henkel Electronic Materials LLC 14000 Jamboree Road Irvine, CA 92606 Contact information:

Telephone: +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.henkel.com/electronics

Contains one or more components which are not included on the CEPA DSL or NDSL.

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.

HAZARD CLASS	HAZARD CATEGORY
SKIN IRRITATION	2
EYE IRRITATION	2A
RESPIRATORY SENSITIZATION	1
SKIN SENSITIZATION	1

PICTOGRAM(S)



Precautionary Statements

Prevention: Avoid breathing dust or fumes. Wash thoroughly after handling. Contaminated work clothing

should not be allowed out of the workplace. Wear eye and face protection. Wear protective

gloves. In case of inadequate ventilation wear respiratory protection.

Response: IF ON SKIN: Wash with plenty of soap and 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 remove. Continue rinsing. If skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical attention. If experiencing respiratory symptoms: Call a poison center or

physician. Take off contaminated clothing.

Storage: Not prescribed

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*	
Tin	7440-31-5	60 - 100	
Silver	7440-22-4	1 - 5	
Rosin	8050-09-7	1 - 5	
Polyethylene glycol dibutyl ether	31885-97-9	1 - 5	
Triethylene glycol monobutyl ether	143-22-6	1 - 5	
Copper	7440-50-8	0.1 - 1	
Dodecane-1-thiol	112-55-0	0.1 - 1	

^{*} Exact percentage is a trade secret. Concentration range is provided to assist users in providing appropriate protections

4. FIRST AID MEASURES

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give

artificial respiration. If symptoms develop and persist, get medical attention.

Skin contact: Remove contaminated clothing and footwear. Immediately rinse with copious

amounts of running water (for 10 minutes). Remove contaminated clothes. Put on a bandage with sterile gauze, seek medical attention in hospital. If symptoms develop and persist, get medical attention. Wash clothing before

reuse.

Eye contact: Immediately flush eyes with plenty of water 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. If symptoms develop

and persist, 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.

Unusual fire or explosion hazards: In case of fire, keep containers cool with water spray.

Hazardous combustion products: High temperatures may produce heavy metal dust, fumes or vapors. The flux

will give rise to irritating fumes.

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: Ensure adequate ventilation. Wear suitable protective clothing, gloves and

eye/face protection. Scrape up as much material as possible. Keep in suitable

and closed containers for disposal.

7. HANDLING AND STORAGE

Handling: Use only in well-ventilated areas. Wear suitable protective clothing, gloves and

eye/face protection. Avoid contact with eyes, skin and clothing. When using do not eat, drink or smoke. Wash hands before breaks and immediately after

handling the product.

Storage: For safe storage, store between 5 °C (41°F) and 25 °C (77°F)

Store in a cool, dry, well-ventilated area. Store in original container until ready

to 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
Tin	2 mg/m3 TWA	2 mg/m3 PEL (as Sn)	None	None
Silver	0.1 mg/m3 TWA Dust and fume.	0.01 mg/m3 PEL (as Ag)	None	None
Rosin	Exposure by all routes should be carefully controlled to levels as low as possible. Included in the regulation but with no data values. See regulation for further details (Respiratory sensitization) (Dermal sensitization)	None	None	None
Polyethylene glycol dibutyl ether	None	None	None	None
Triethylene glycol monobutyl ether	None	None	None	None
Copper	0.2 mg/m3 TWA (as Cu) Fume. 1 mg/m3 TWA (as Cu) Dust and mist.	1 mg/m3 PEL (as Cu) Dust and mist. 0.1 mg/m3 PEL (as Cu) Fume.	None	None
Dodecane-1-thiol	0.1 ppm TWA (Dermal sensitization)	None	None	None

Engineering controls: Heat only in areas with appropriate exhaust ventilation. Local exhaust

ventilation is recommended when general ventilation is not sufficient to control

airborne contamination.

Respiratory protection: Where the potential exists for exposure to decomposition products due to

heating or elevated temperatures, wear NIOSH approved respiratory

protection as appropriate.

Eye/face protection: Safety goggles or safety glasses with side shields.

Skin protection: Heat and chemical resistant gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid
Color: Gray
Odor: Mild

Odor threshold:

PH:

Not available.

Not available.

Vapor pressure: 0.83 Pa (50 °C (122°F))

Boiling point/range: Not available.

IDH number: 1993881 Product name: LOCTITE GC 10 SAC305T4 885V 52U

Melting point/ range: Not available.

Specific gravity: 4.5

Vapor density: Not available. Flash point: 131 °C (267.8 °F) Flammable/Explosive limits - lower: Not available. Flammable/Explosive limits - upper: Not available. Autoignition temperature: Not available. Evaporation rate: Not available. Solubility in water: Not available. Partition coefficient (n-octanol/water): Not available. **VOC** content: 3.62 % Viscosity: Not available. **Decomposition temperature:**

10. STABILITY AND REACTIVITY

Not available.

Stability: Stable under normal conditions of storage and use.

Hazardous reactions: Will not occur.

Hazardous decomposition

products:

IDH number: 1993881

Oxides of carbon. Oxides of Metals in Section 2. Thermal decomposition can lead to release of

irritating gases and vapors. Formaldehyde.

Incompatible materials: Strong oxidizing agents. Acids and bases. Reacts with alkalis: spontaneous decomposition

and production of heat

Reactivity: Not available.

Conditions to avoid: Solder alloy will react with concentrated nitric acid to produce toxic fumes of nitrogen oxides.

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: Not expected under normal conditions of use.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects	
Tin	None	Gastrointestinal, Irritant, Kidney, Liver, Lung, Nervous System	
Silver	Oral LD50 (RAT) = > 5,000 mg/kg Dermal LD50 (RAT) = > 2,000 mg/kg	Allergen, Eyes, Irritant, Respiratory, Skin	
Rosin	None	Allergen, Irritant, Respiratory	
Polyethylene glycol dibutyl ether	None	No Records	
Triethylene glycol monobutyl ether	Oral LD50 (RAT) = 5,300 mg/kg	Central nervous system, Irritant	
Copper	None	Allergen, Blood, Central nervous system, Developmental, Gastrointestinal, Immune system, Irritant, Kidney, Liver, Mutagen, Sensory, Skin	
Dodecane-1-thiol	None Allergen, Central nervous syst Reproductive		

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Tin	No	No	No
Silver	No	No	No
Rosin	No	No	No
Polyethylene glycol dibutyl ether	No	No	No
Triethylene glycol monobutyl ether	No	No	No
Copper	No	No	No
Dodecane-1-thiol	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: D011. Silver.

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: Not regulated

Hazard class or division:
Identification number:
Packing group:
None

International Air Transportation (ICAO/IATA)

Proper shipping name:
Hazard class or division:
Identification number:
Packing group:

Not regulated
None
None

IDH number: 1993881 Product name: LOCTITE GC 10 SAC305T4 885V 52U

Water Transportation (IMO/IMDG)

Proper shipping name: Not regulated Hazard class or division: None Identification number: None Packing group: None

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: Glycol Ether (CAS# 31885-97-9).

CERCLA/SARA Section 302 EHS: None above reporting de minimis
CERCLA/SARA Section 311/312: Immediate Health, Delayed Health
CERCLA/SARA Section 311/312: This readult section the following

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). Triethylene glycol monobutyl ether (CAS# 143-22-6).

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: 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: New Safety Data Sheet format.

Prepared by: Michele Oltra, Regulatory Affairs Specialist

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