

Revision Number: 007.0 Issue date: 12/23/2019

# 1. PRODUCT AND COMPANY IDENTIFICATION

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

Product type/use: Solder Paste

Restriction of Use: None identified **United States** Region: Contact information:

Company address: Henkel Corporation Telephone: +1 (860) 571-5100 One Henkel Way

MEDICAL EMERGENCY Phone: Poison Control Center Rocky Hill, Connecticut 06067 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** DANGER: 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 |
|---------------------------|-----------------|
| EYE IRRITATION            | 2A              |
| RESPIRATORY SENSITIZATION | 1               |
| SKIN SENSITIZATION        | 1               |

# PICTOGRAM(S)



#### **Precautionary Statements**

Prevention: 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, eye

protection, and face protection. In case of inadequate ventilation wear respiratory protection. IF ON SKIN: Wash with plenty of water. IF INHALED: If breathing is difficult, remove victim to Response:

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 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.

Wash contaminated clothing before reuse.

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  | 80 - 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       |  |
| Dodecane-1-thiol                   | 112-55-0   | 0.1 - 1     |  |

<sup>\*</sup> 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 breathing is difficult, give oxygen. If not breathing, give

artificial respiration. Get immediate medical attention.

Skin contact: Remove contaminated clothing and footwear. Immediately flush skin with

plenty of water (using soap, if available). 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. If symptoms develop and persist, get medical attention.

Symptoms: See Section 11.

#### 5. FIRE FIGHTING MEASURES

**Extinguishing media:** Foam, dry chemical or carbon dioxide.

Special firefighting procedures: Wear a self-contained breathing apparatus with a full face piece operated in

pressure-demand or other positive pressure mode. Do not use water on fires

where molten metal is present.

Unusual fire or explosion hazards: None

**Hazardous combustion products:** Oxides of carbon. Metal oxide fumes. Formaldehyde. 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 protective clothing, gloves and safety

glasses. Scrape up spilled material and place in a closed container for disposal. Refer to Section 8 "Exposure Controls / Personal Protection" prior to

clean up.

# 7. HANDLING AND STORAGE

**Handling:** Use only with adequate ventilation. Wear suitable protective clothing, gloves

and eye/face protection. Avoid contact with eyes, skin and clothing. Avoid skin contact with molten resins. When using, do not eat, drink or smoke. Wash

thoroughly after handling.

Storage: For safe storage, store between -20 °C (-4°F) and 50 °C (122°F)

Store in original container until ready to use. Keep in a cool, well 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 |
|------------------------------------|--|---------------------------|-----------|-------|
| Tin                                | 2 mg/m3 TWA<br>Inhalable fraction.   | 2 mg/m3 PEL (as Sn)       | None      | None  |
| Silver                             | 0.1 mg/m3 TWA Dust and fume.   | 0.01 mg/m3 PEL (as<br>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  |
| Dodecane-1-thiol                   | 0.1 ppm TWA (Dermal sensitization)   | None                      | None      | None  |

Engineering controls: Use adequate ventilation to remove molten vapors or fumes. 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.

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:SolidColor:GrayOdor:Mild

Odor threshold:

pH:

Not available.

Not available.

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

Boiling point/range: Not available.

Melting point/ range: 217 °C (422.6 °F)

Specific gravity: 4.5

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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. Flammability: Not applicable **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:** Not available.

# 10. STABILITY AND REACTIVITY

**Stability**: Stable under normal conditions of storage and use.

Hazardous reactions: Will not occur.

Hazardous decomposition

products:

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Oxides of carbon. Metal oxide fumes. 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: Inhalation of processing fumes may be harmful. May cause allergic respiratory reaction.

Excessive exposure to tin fumes or dust may cause Stannosis, a chronic respiratory disease resulting in reduced lung capacity and benign tumors. Excessive inhalation of fumes from many metals can produce an acute reaction known as "metal fume fever". Symptoms consist of chills and fever (very similar to and easily confused with flu symptoms) which come on a few hours after large exposures. Fumes and/or dust produced by this product may be hazardous in case of ingestion or inhalation. Rosin thermal decomposition product (as formaldehyde) is classified

by NIOSH as a potential occupational carcinogen.

Skin contact: May cause 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,<br>Nervous System |  |
| Silver                             | Oral LD50 (Rat) = > 5,000 mg/kg<br>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                                   |  |
| Dodecane-1-thiol                   | Oral LD50 (Mouse) = 4,225 mg/kg                                      | Allergen, Central nervous system, Irritant,<br>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                                       |
| 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. Do not

dispose of in an uncontrolled manner.

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

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International Air Transportation (ICAO/IATA)

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

Not regulated
None
None

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 as active or are exempt from listing on the Toxic Substances

Control Act (TSCA) 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 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: Product Safety and Regulatory Affairs

**Issue date:** 12/23/2019

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