

Revision Number: 003.0 Issue date: 04/02/2015

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: LOCTITE WS 300 97SCT3V LU known IDH number: 1354250

as MULTICORE 97SC WS300 T3 V

500qS

Product type:Solder PasteItem number:M00732Restriction of Use:None identifiedRegion:United States

Company address:

Henkel Electronic Materials LLC

14000 Jamboree Road Irvine, CA 92606 Contact information: Telephone: +1 (888) 943-6535

MEDICAL EMERGÉNCY 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

## 2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

WARNING: CAUSES SKIN IRRITATION.

MAY CAUSE AN ALLERGIC SKIN REACTION. CAUSES SERIOUS EYE IRRITATION.

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

#### PICTOGRAM(S)



#### **Precautionary Statements**

Prevention: Avoid breathing vapors, mist, or spray. Wash thoroughly after handling. Contaminated work

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

protective gloves.

**Response:** IF ON SKIN: Wash with plenty of soap and water. 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. 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

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Hazardous Component(s)	CAS Number	Percentage*	
Tin	7440-31-5	60 - 100	
Silver	7440-22-4	1 - 5	
Diethylene glycol monobutyl ether	112-34-5	1 - 5	
Amine	Proprietary	1 - 5	
Copper	7440-50-8	0.1 - 1	

<sup>\*</sup> 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 flush skin with

plenty of water (using soap, if available). 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. If eye

irritation persists, consult a specialist.

**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. Do not use water on

molten metal.

**Special firefighting procedures:** Wear self-contained breathing apparatus.

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

High temperatures may produce heavy metal dust, fumes or vapours. The flux

medium will give rise to irritating fumes. Oxides of Metals in Section 2. Oxides

of carbon. Formaldehyde.

## 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 let product enter drains.

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Clean-up methods: Ensure adequate ventilation. Wear suitable protective clothing, gloves and

eye/face protection. Scrape up spilled material and place in a closed container

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: Keep container tightly closed and in a cool, well-ventilated place away from

incompatible materials.

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
Diethylene glycol monobutyl ether	10 ppm TWA Inhalable fraction and vapor.	None	None	50 ppm TWA 75 ppm STEL
Amine	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

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

Respiratory protection: Use an organic vapor respirator for concentrations exceeding the

Occupational Exposure Limit.

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

**Skin protection:** Disposable rubber or plastic gloves.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:Solid, PasteColor:GrayOdor:Mild

Odor threshold:

pH:

Vapor pressure:

Boiling point/range:

Melting point/ range:

Not available.

Not available.

Not available.

217 °C (422.6 °F)

Specific gravity: 4.5

Vapor density: Not available.

Flash point: 101 °C (213.8 °F); Estimated

Flammable/Explosive limits - lower: Not available. Flammable/Explosive limits - upper: Not available. Autoignition temperature: Not available. **Evaporation rate:** Not available Solubility in water: Insoluble Partition coefficient (n-octanol/water): Not available. **VOC** content: < 5 g/l (calculated) Viscosity: Not available. **Decomposition temperature:** Not available.

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# 10. STABILITY AND REACTIVITY

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

Hazardous reactions: Will not occur.

Hazardous decomposition

products:

Oxides of carbon. Oxides of Metals in Section 2. Formaldehyde.

Incompatible materials: Oxidizing agents. Solder alloy will react with concentrated nitric acid to produce toxic fumes of

nitrogen oxides. Acids and bases.

Reactivity: Not available.

Conditions to avoid: Avoid contact with acids and oxidizing agents. 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. Excessive exposure to tin fumes or dust may

cause Stannosis, a chronic respiratory disease resulting in reduced lung capacity and benign

tumors.

**Skin contact:** Causes skin irritation. May cause allergic skin reaction.

Eye contact: Causes serious eye irritation.
Ingestion: Not a relevant route of exposure.

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	
Diethylene glycol monobutyl ether	Oral LD50 (RABBIT) = 2,200 mg/kg Oral LD50 (RAT) = 4,500 mg/kg Oral LD50 (RAT) = 5,660 mg/kg Oral LD50 (RAT) = 7,292 mg/kg Oral LD50 (RAT) = 6,600 mg/kg Oral LD50 (RAT) = 6,560 mg/kg Dermal LD50 (RABBIT) = 2,700 mg/kg Dermal LD50 (RABBIT) = 4,120 mg/kg	Blood, Central nervous system, Irritant, Kidney	
Amine	None	No Records	
Copper	None Allergen, Blood, Central nervous Developmental, Gastrointestinal system, Irritant, Kidney, Liver, N Sensory, Skin		

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Tin	No	No	No
Silver	No	No	No
Diethylene glycol monobutyl ether	No	No	No
Amine	No	No	No
Copper	No	No	No

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## 12. ECOLOGICAL INFORMATION

**Ecological information:** No specific studies have been conducted by Henkel on the ecotoxicity or

environmental fate of this material; however, commonly available data on the material indicate that uncontrolled releases to soil, ground water, or surface waters could entail acute and/or chronic ecological effects, depending on the quantity and concentration of such releases. Releases of volatile components

to the atmosphere are not believed to entail significant ecological

consequences provided such releases are within the exposure levels set forth in this document. Accordingly, all appropriate measures should be taken to avoid uncontrolled releases to the environment, and any spills or other uncontrolled releases which may occur should be contained and cleaned up

immediately in accordance with Section 6.

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

International Air Transportation (ICAO/IATA)

Proper shipping name: Not regulated Hazard class or division: None

Identification number:

Packing group:

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** 

IDH number: 1354250

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: 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). Silver (CAS# 7440-22-4). Diethylene glycol monobutyl ether (CAS# 112-34-5).

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

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#### **Canada Regulatory Information**

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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: New Safety Data Sheet format.

Prepared by: Michele Oltra, Regulatory Affairs Specialist

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