



## Safety Data Sheet

LOCTITE LB C5-A LUBRICATION ANTI-SEIZE known as C5-A® Copper Based Anti-Seize

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MSDS-No. : 242144  
V001.2

Date of issue: 26.11.2014

### Section 1. Identification of the substance/preparation and of the company/undertaking

**Product name:** LOCTITE LB C5-A LUBRICATION ANTI-SEIZE known as C5-A® Copper Based Anti-Seize

**Intended use:** Lubricant

**Supplier:**  
Henkel Australia Pty Ltd  
135-141 Canterbury Road  
Kilsyth, Victoria, 3137  
Australia

Phone: +61 (3) 9724 6444

**Emergency information:** 24 HOUR EMERGENCY CONTACT NUMBER 03 9724 6556

### Section 2. Hazards identification

**Classification of the substance or mixture**  
Hazardous according to the criteria of ASCC.

**GHS Classification:**

<u>Hazard Class</u>	<u>Hazard Category</u>	<u>Route of Exposure</u>
Skin corrosion	Category 2	
Serious eye damage	Category 1	
Specific target organ toxicity - single exposure	Category 3	Inhalation

**Signal word:** Danger

**Hazard statement(s):** H318 Causes serious eye damage.  
H315 Causes skin irritation.  
H335 May cause respiratory irritation.

**Precautionary Statement(s):**

**Prevention:** P280 Wear protective gloves/eye protection.  
P261 Avoid breathing dust/mist/spray.

**Response:** P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a poison control center or physician.  
P302+P352 IF ON SKIN: Wash with plenty of water.  
P332+P313 If skin irritation occurs: Get medical attention.  
P362 Take off contaminated clothing.  
P304+P312 IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.

**Storage:** P403+P233 Store in a well-ventilated place. Keep container tightly closed.

**Disposal:** P501 Dispose of waste and residues in accordance with local authority requirements.

**Risk phrases:**

R37/38 Irritating to respiratory system and skin.  
R41 Risk of serious damage to eyes.

**Safety phrases:**

S23 Do not breathe vapour/spray.  
S24/25 Avoid contact with skin and eyes.  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S27 Take off immediately all contaminated clothing.  
S28 After contact with skin, wash immediately with plenty of water.  
S37/39 Wear suitable gloves and eye/face protection.  
S60 This material and its container must be disposed of as hazardous waste.

**Dangerous Goods information:**

Not classified as Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).

**Signal word:**

HAZARDOUS

**Section 3. Composition / information on ingredients**

**General chemical description:** Mixture

**Identity of ingredients:**

Chemical ingredients	CAS-No.	Proportion
Calcium dihydroxide	1305-62-0	10 - < 30 %
Copper	7440-50-8	10 - < 30 %
Graphite	7782-42-5	1 - < 10 %
Quartz (SiO <sub>2</sub> )	14808-60-7	< 1 %
non hazardous ingredients~		> 30 %

**Section 4. First aid measures**

**Ingestion:** Rinse mouth, do not induce vomiting, consult a doctor.

**Skin:** Rinse with running water and soap.  
Seek medical advice.

**Eyes:** Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary.

**Inhalation:** Move to fresh air. If symptoms persist, seek medical advice.

**First Aid facilities:** Eye wash  
Normal washroom facilities

**Medical attention and special treatment:** Treat symptomatically and supportively.

**Section 5. Fire fighting measures**

**Suitable extinguishing media:** Carbon dioxide, foam, powder

**Improper extinguishing media:** High pressure waterjet

**Decomposition products in case of fire::** Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

**Special protective equipment for fire-fighters:** Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

**Section 6. Accidental release measures**

**Personal precautions:** Avoid contact with skin and eyes.  
See advice in section 8

**Environmental precautions:** Do not empty into drains / surface water / ground water.

**Clean-up methods:** Absorb spill with inert material. Shovel material into appropriate container for disposal. Dispose of contaminated material as waste according to Section 13.

**Section 7. Handling and storage**

**Precautions for safe handling:** Do not inhale vapors and fumes.  
Use only in well-ventilated areas.  
Refer to Section 8.

**Conditions for safe storage:** Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.

**Section 8. Exposure controls / personal protection**

**National exposure standards:**

Ingredient	form of exposure	TWA (ppm)	TWA (mg/m3)	Peak Limit. (ppm)	Peak Limit. (mg/m3)	STEL (ppm)	STEL (mg/m3)
CALCIUM HYDROXIDE 1305-62-0			5	-	-	-	-
COPPER, DUSTS & MISTS (AS CU) 7440-50-8	Dust and mist.		1	-	-	-	-
COPPER (FUME) 7440-50-8	Fume.		0.2	-	-	-	-
GRAPHITE, NATURAL AND SYNTHETIC (ALL FORMS EXCEPT FIBRES) (RESPIRABLE DUST) 7782-42-5	Respirable dust.		3	-	-	-	-
QUARTZ 14808-60-7			0.1	-	-	-	-

**Engineering controls:** Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product.

**Eye protection:** Tightly fitting safety goggles

**Skin protection:** Use of an impervious apron is recommended.  
Nitrile rubber gloves should be worn.

**Respiratory protection:** If inhalation risk exists, wear a respirator or air supplied mask complying with the requirements of AS/NZS 1715 and AS/NZS 1716.

### Section 9. Physical and chemical properties

<b>Appearance:</b>	Copper Paste
<b>Odor:</b>	Mild
<b>Specific gravity:</b>	1.30
<b>Boiling point:</b>	> 260 °C (> 500 °F)
<b>Flash point:</b>	> 93 °C (> 199.4 °F)
<b>Vapor pressure:</b>	< 0.6 mbar
(None)	
<b>Density:</b>	1.3 g/cm <sup>3</sup>

### Section 10. Stability and reactivity

<b>Stability:</b>	Stable under normal conditions of temperature and pressure.
<b>Conditions to avoid:</b>	Avoid excessive heat and ignition sources.
<b>Incompatible materials:</b>	Reaction with strong acids. Oxidizing agents.
<b>Hazardous decomposition products:</b>	In case of fire toxic gases can be released. carbon oxides.

**Section 11. Toxicological information****Health Effects:****Ingestion:**

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Skin:**

Causes skin irritation.

**Eyes:**

Causes serious eye damage.

**Inhalation:**

May cause respiratory tract irritation.

Inhalation of copper fumes may result in metal fume fever. Symptoms include metallic taste, discoloration of skin or hair.

**Aggravated med.  
condition:**

Eye, skin, and respiratory disorders.

**Acute toxicity:**

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Calcium dihydroxide 1305-62-0	LD50	> 2,000 mg/kg	oral		rat	OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure) OECD Guideline 402 (Acute Dermal Toxicity)
	LD50	> 2,500 mg/kg	dermal		rat	
Copper 7440-50-8	LD50	584 mg/kg	oral		rat	

**Skin corrosion/irritation:**

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Calcium dihydroxide 1305-62-0	irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

**Serious eye damage/irritation:**

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Calcium dihydroxide 1305-62-0	Category 1 (irreversible effects on the eye)		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

**Section 12. Ecological information****General ecological information:**

Do not empty into drains / surface water / ground water.

**Section 13. Disposal considerations****Waste disposal of product:**

Collection and delivery to recycling enterprise or other registered elimination institution.

**Recommended cleanser:**

Suitable organic solvents

**Disposal for uncleaned package:**

Packaging that cannot be cleaned are to be disposed of in the same manner as the product.

**Section 14. Transport information****Road and Rail Transport:****Dangerous Goods information:**

Not classified as Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).

**Marine transport IMDG:**

UN no.: 3082  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S. (Copper)  
Class or division: 9  
Packing group: III  
EmS: F-A ,S-F  
Seawater pollutant: Marine pollutant

**Air transport IATA:**  
Not dangerous goods

### Section 15. Regulatory information

**SUSMP Poisons Schedule** None  
**AICS:** All components are listed or are exempt from listing on the Australian Inventory of Chemical Substances (AICS).

### Section 16. Other information

**Reason for issue:** New Material Safety Data Sheet format. involved chapters: 1-16

**Date of previous issue:** 15.12.2009

**Disclaimer:**  
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