



Safety Data Sheet

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DELETE LOCTITE LB 8008 C5-A 453

SDS No. : 242144

V001.4

Date of issue: 06.12.2022

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

Product name: DELETE LOCTITE LB 8008 C5-A 453

Intended use: Antiseize

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: 1800 032 379

Section 2. Hazards identification

Classification of the substance or mixture

Hazardous according to the criteria of Safe Work Australia.

GHS Classification:

| <u>Hazard Class</u> | <u>Hazard Category</u> |
|--|------------------------|
| Skin irritation | Category 2 |
| Serious eye damage/eye irritation | Category 1 |
| Acute hazards to the aquatic environment | Category 2 |
| Chronic hazards to the aquatic environment | Category 3 |

Hazard pictogram:



Signal word:

Danger

| | |
|------------------------------------|--|
| Hazard statement(s): | H315 Causes skin irritation. H318 Causes serious eye damage. H401 Toxic to aquatic life. H412 Harmful to aquatic life with long lasting effects. |
| Precautionary Statement(s): | |
| Prevention: | P264 Wash hands thoroughly after handling. P273 Avoid release to the environment. P280 Wear protective gloves, eye protection, and face protection. |
| Response: | P302+P352 IF ON SKIN: Wash with plenty of water. P305+P351+P338+P315 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing. Get immediate medical advice/attention. P332+P313 If skin irritation occurs: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse. |
| Disposal: | P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations. |

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).

Section 3. Composition / information on ingredients

General chemical description: Mixture

Identity of ingredients:

| Chemical ingredients | CAS-No. | Proportion |
|--|------------|-------------|
| Distillates (petroleum), hydrotreated heavy naphthenic <3%DMSO | 64742-52-5 | 10- < 30 % |
| Calcium dihydroxide | 1305-62-0 | 10- < 20 % |
| Copper | 7440-50-8 | 10- < 30 % |
| Graphite | 7782-42-5 | < 10 % |
| Quartz (SiO ₂) "respirable particulates (reaches the alveoli)" (RCS) <0.1% | 14808-60-7 | < 10 % |
| non hazardous ingredients~ | | 30- <= 60 % |

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: Store at room temperature.

Section 8. Exposure controls / personal protection

National exposure standards:

| Ingredient [Regulated substance] | form of exposure | TWA (ppm) | TWA (mg/m3) | Peak Limit. (ppm) | Peak Limit. (mg/m3) | STEL (ppm) | STEL (mg/m3) |
|---|------------------|-----------|-------------|-------------------|---------------------|------------|--------------|
| Oil mist, refined mineral 64742-52-5 | | | 5 | | | | |
| 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 (ALL FORMS EXCEPT FIBRES) (RESPIRABLE DUST) (NATURAL & SYNTHETIC) 7782-42-5 | Respirable dust. | | 3 | | | | |

| | | | | | | | |
|---|------------------|--|------|--|--|--|--|
| SILICA, CRYSTALLINE: QUARTZ (RESPIRABLE DUST) 14808-60-7 | Respirable dust. | | 0.05 | | | | |
| QUARTZ (RESPIRABLE DUST) 14808-60-7 | Respirable dust. | | 0.05 | | | | |

- 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

- Appearance:** Copper Paste
- Odor:** mild
- pH:** Not applicable, Product is non-soluble (in water).
- Melting point / freezing point:** Not applicable
- Specific gravity:** 1.30
- Boiling point:** > 260 °C (> 500 °F)
- Flash point:** > 93 °C (> 199.4 °F)
- Vapor pressure:** < 0.6 mbar
(None)
- Vapor density:** Heavier than air.
- Density:** 1.3 g/cm³
- Auto ignition:** Not determined
- Decomposition temperature:**
- VOC content (2004/42/EC)** 0 % (VOCV 814.018 VOC regulation CH)

Section 10. Stability and reactivity

- Stability:** Stable under normal conditions of temperature and pressure.
- Conditions to avoid:** Avoid excessive heat and ignition sources.
- Incompatible materials:** Reaction with strong acids. Oxidizing agents.
- Hazardous decomposition products:** 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.
Principal hazard of ingestion is aspiration into the lungs and subsequent pneumonitis.

Skin:

Causes skin irritation.
Symptoms may include redness, edema, drying, defatting and cracking of the skin.

Eyes:

Causes serious eye damage.
Contact with the eyes may cause moderate to severe eye injury. Eye contact may result in corneal injury. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

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 |
|---|---------------------------------------|---|------------------------------|---------------|----------------------|--|
| Distillates (petroleum), hydrotreated heavy naphthenic <3%DMSO 64742-52-5 | LD50 LC50 LD50 | > 5,000 mg/kg > 5.53 mg/l > 5,000 mg/kg | oral inhalation dermal | 4 h | rat rat rabbit | OECD Guideline 401 (Acute Oral Toxicity) OECD Guideline 403 (Acute Inhalation Toxicity) OECD Guideline 402 (Acute Dermal Toxicity) |
| Calcium dihydroxide 1305-62-0 | LD50 LD50 | > 7,340 mg/kg > 2,500 mg/kg | oral dermal | | rat rat | OECD Guideline 401 (Acute Oral Toxicity) OECD Guideline 402 (Acute Dermal Toxicity) |
| Copper 7440-50-8 | LD50 LC50 LD50 | > 2,500 mg/kg > 5.11 mg/l > 2,000 mg/kg | oral inhalation dermal | 4 h | rat rat rat | OECD Guideline 423 (Acute Oral toxicity) OECD Guideline 436 (Acute Inhalation Toxicity: Acute Toxic Class (ATC) Method) OECD Guideline 402 (Acute Dermal Toxicity) |
| Graphite 7782-42-5 | Acute toxicity estimate (ATE) LC50 | > 5,000 mg/kg > 2 mg/l | oral inhalation | 4 h | rat | Expert judgement OECD Guideline 403 (Acute Inhalation Toxicity) |

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) |
| Copper 7440-50-8 | not irritating | | rabbit | EU Method B.4 (Acute Toxicity: Dermal Irritation / Corrosion) |
| Graphite 7782-42-5 | not 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) |
| Copper 7440-50-8 | not irritating | | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| Graphite 7782-42-5 | not irritating | | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |

Respiratory or skin sensitization:

| Hazardous components CAS-No. | Result | Test type | Species | Method |
|------------------------------|-----------------|-------------------------------------|------------|--|
| Copper 7440-50-8 | not sensitising | Guinea pig maximisation test | guinea pig | EU Method B.6 (Skin Sensitisation) |
| Graphite 7782-42-5 | not sensitising | Mouse local lymph node assay (LLNA) | mouse | equivalent or similar to OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) |

Germ cell mutagenicity:

| Hazardous components CAS-No. | Result | Type of study / Route of administration | Metabolic activation / Exposure time | Species | Method |
|-------------------------------|----------------------------------|---|--|--------------|--|
| Calcium dihydroxide 1305-62-0 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| Copper 7440-50-8 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| Copper 7440-50-8 | negative negative | oral: gavage oral: gavage | | mouse rat | EU Method B.12 (Mutagenicity equivalent or similar to OECD Guideline 486 (Unscheduled DNA Synthesis (UDS) Test with Mammalian Liver Cells in vivo) |
| Graphite 7782-42-5 | negative negative negative | bacterial reverse mutation assay (e.g Ames test) in vitro mammalian chromosome aberration test mammalian cell gene mutation assay | with and without with and without with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |

Repeated dose toxicity:

| Hazardous components CAS-No. | Result | Route of application | Exposure time / Frequency of treatment | Species | Method |
|------------------------------|---------------------|----------------------|--|---------|--|
| Copper 7440-50-8 | NOAEL=1000 ppm | oral: feed | 92 d 7 d/w | rat | EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents) |
| Graphite 7782-42-5 | NOAEL=ca. 813 mg/kg | oral: feed | daily | rat | OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |

Section 12. Ecological information

General ecological information: Do not empty into drains / surface water / ground water.

Toxicity:

| Hazardous components CAS-No. | Value type | Value | Acute Toxicity Study | Exposure time | Species | Method |
|--|---------------|----------------|----------------------------|------------------|--|---|
| Distillates (petroleum), hydrotreated heavy naphthenic <3%DMSO 64742-52-5 | LC50 | > 1,000 mg/l | Fish | 96 h | Oncorhynchus mykiss | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Distillates (petroleum), hydrotreated heavy naphthenic <3%DMSO 64742-52-5 | EC50 | > 1,000 mg/l | Daphnia | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Distillates (petroleum), hydrotreated heavy naphthenic <3%DMSO 64742-52-5 | NOELR | 100 mg/l | Algae | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Calcium dihydroxide 1305-62-0 | LC50 | 50.6 mg/l | Fish | 96 h | Oncorhynchus mykiss | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Calcium dihydroxide 1305-62-0 | EC50 | 49.1 mg/l | Daphnia | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Calcium dihydroxide 1305-62-0 | EC50 | 184.57 mg/l | Algae | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Calcium dihydroxide 1305-62-0 | NOEC | 48 mg/l | Algae | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Calcium dihydroxide 1305-62-0 | EC20 | 229.2 mg/l | Bacteria | 3 h | activated sludge of a predominantly domestic sewage | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) other guideline: |
| Copper 7440-50-8 | LC50 | 0.193 mg/l | Fish | 96 h | Pimephales promelas | |
| Copper 7440-50-8 | NOEC | 0.188 mg/l | Fish | 30 d | Perca fluviatilis | OECD Guideline 204 (Fish, Prolonged Toxicity Test: 14-day Study) |
| Copper 7440-50-8 | EC50 | > 0.1 - 1 mg/l | Daphnia | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Copper 7440-50-8 | EC50 | > 0.1 - 1 mg/l | Algae | 72 h | not specified | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Copper 7440-50-8 | NOEC | > 0.1 - 1 mg/l | Algae | 72 h | not specified | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Copper 7440-50-8 | EC50 | > 0.1 - 1 mg/l | Bacteria | 3 h | activated sludge | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |
| Graphite 7782-42-5 | LC50 | > 10,000 mg/l | Fish | 96 h | Brachydanio rerio (new name: Danio rerio) | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Graphite 7782-42-5 | EC50 | > 5,600 mg/l | Daphnia | 24 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |

Persistence and degradability:

| Hazardous components CAS-No. | Result | Route of application | Degradability | Method |
|---------------------------------|--------|-------------------------|---------------|--------|
|---------------------------------|--------|-------------------------|---------------|--------|

| | | | | |
|--|----------------------------|---------|-----|---|
| Distillates (petroleum), hydrotreated heavy naphthenic <3%DMSO 64742-52-5 | not readily biodegradable. | aerobic | 6 % | OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test) |
|--|----------------------------|---------|-----|---|

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
- AIC:** All components are listed or are exempt from listing on the Australian Inventory of Industrial Chemicals or Introduced under AICIS.

Section 16. Other information

- Abbreviations/acronyms:** AIIC - Australian Inventory of Industrial Chemicals (AIIC)
AICIS - Australian Industrial Chemicals Introduction Scheme
- Reason for issue:** Reviewed SDS. Reissued with new date. involved chapters: 1 - 16

Date of previous issue: 14.11.2019

Disclaimer:

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