



Revision Number: 011.0

Issue date: 04/03/2025

1. IDENTIFICATION

Product name: LOCTITE LB 8008 C5-A known as C5-A® Copper Based Anti-Seize
IDH number: 234192
Product type/Recommended use: Antiseize
Item number: 51001
Restriction of Use: None identified
Region: United States
Company address:
 Henkel Corporation
 One Henkel Way
 Rocky Hill, Connecticut 06067
Contact information:
 Telephone: +1 (860) 571-5100
 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
 MEDICAL EMERGENCY Phone: Poison Control Center
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 1-800-424-9300 (toll free) or 1-703-527-3887
 Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER: H315 - CAUSES SKIN IRRITATION.
 H318 - CAUSES SERIOUS EYE DAMAGE.
 H372 - CAUSES DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE.

| HAZARD CLASS | HAZARD CATEGORY |
|--|-----------------|
| SKIN IRRITATION | 2 |
| SERIOUS EYE DAMAGE | 1 |
| SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE | 1 |

PICTOGRAM(S)



Precautionary Statements

Prevention: P260 - Do not breathe vapors, mist, or spray.
 P264 - Wash affected area thoroughly after handling.
 P270 - Do not eat, drink or smoke when using this product.
Response: P280 - Wear protective gloves, eye protection, and face protection.
 P302+P352 - IF ON SKIN: Wash with plenty of water.
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P314 - Get medical attention if you feel unwell.
 P332+P313 - If skin irritation occurs: Get medical attention.
 P362+P364 - Take off contaminated clothing and wash it before reuse.
Storage: Not prescribed
Disposal: P501 - Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

Other hazards Not available.

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 | Weight %* |
|--|------------|-----------|
| Distillates (petroleum), hydrotreated heavy naphthenic <3%DMSO | 64742-52-5 | 30 - 60 |
| Distillates (petroleum), hydrotreated heavy naphthenic | 64742-52-5 | 10 - 30 |
| Calcium dihydroxide | 1305-62-0 | 10 - 30 |
| Copper | 7440-50-8 | 10 - 30 |
| Graphite | 7782-42-5 | 5 - 10 |
| calcium(2+) 12-hydroxyoctadecanoate | 3159-62-4 | 1 - 5 |
| Quartz (SiO ₂) "respirable particulates (reaches the alveoli)" (RCS) <0.1% | 14808-60-7 | 1 - 5 |
| copper flakes (coated with aliphatic acid) | 7440-50-8 | 0.1 - 1 |
| Quartz (SiO ₂) respirable particulates (RCS) >=10% | 14808-60-7 | 0.1 - 1 |

* Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

4. FIRST AID MEASURES

First Aid Measures by likely routes of exposure

| | |
|--|---|
| 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: | Wash with soap and water. If symptoms develop and persist, get medical attention. |
| Eye contact: | Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention. |
| Ingestion: | Do not induce vomiting. Get medical attention. |
| Most important symptoms and effects (acute and delayed): | The most important known symptoms and effects, both acute and delayed, are described in Section 11: Toxicological Information. |
| Indication of any immediate medical attention / special treatment needed: | Not available. |

5. FIRE FIGHTING MEASURES

| | |
|---|--|
| Extinguishing media: | Water spray (fog), foam, dry chemical or carbon dioxide. |
| Improper extinguishing agents: | Not available. |
| Special firefighting procedures: | None |
| Unusual fire or explosion hazards: | None |
| Hazardous combustion products: | Oxides of carbon. |

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 material to contaminate ground water system. |
| Clean-up methods: | Scrape up as much material as possible. Clean residue with soap and water. |

7. HANDLING AND STORAGE

Handling:

Use only with adequate ventilation. Avoid contact with eyes, skin and clothing.
Keep container closed. Wash thoroughly after handling.

Storage:

Keep in a cool, well ventilated area.

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 |
|--|--|--|-----------|-------|
| Distillates (petroleum), hydrotreated heavy naphthenic <3%DMSO | 5 mg/m3 TWA Inhalable fraction. | 5 mg/m3 PEL Mist. 500 ppm (2,000 mg/m3) PEL | None | None |
| Distillates (petroleum), hydrotreated heavy naphthenic | 5 mg/m3 TWA Inhalable fraction. | 5 mg/m3 PEL Mist. 500 ppm (2,000 mg/m3) PEL | None | None |
| Calcium dihydroxide | 5 mg/m3 TWA | 5 mg/m3 PEL Respirable fraction. 15 mg/m3 PEL Total dust. 50 MPPCF TWA Total dust. 5 mg/m3 TWA Respirable fraction. 15 MPPCF TWA Respirable fraction. 15 mg/m3 TWA Total dust. | 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 |
| Graphite | 2 mg/m3 TWA Respirable fraction. | 5 mg/m3 PEL Respirable fraction. 15 mg/m3 PEL Total dust. 5 mg/m3 PEL Respirable fraction. 15 mg/m3 PEL Total dust. | None | None |
| Quartz (SiO ₂) "respirable particulates (reaches the alveoli)" (RCS) <0.1% | 0.025 mg/m3 TWA Respirable fraction. | 0.05 mg/m3 TWA (Respirable dust.) (Respirable dust.) 0.025 mg/m3 OSHA ACT (Respirable dust.) 0.05 mg/m3 PEL Respirable dust. 2.4 MPPCF TWA Respirable 0.1 mg/m3 TWA Respirable | None | None |
| copper flakes (coated with aliphatic acid) | 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 |
| Quartz (SiO ₂) respirable particulates (RCS) >=10% | 0.025 mg/m3 TWA Respirable fraction. | 0.05 mg/m3 TWA (Respirable dust.) (Respirable dust.) 0.025 mg/m3 OSHA ACT (Respirable dust.) 0.05 mg/m3 PEL Respirable dust. 2.4 MPPCF TWA Respirable 0.1 mg/m3 TWA Respirable | None | None |

Engineering controls:

Use local ventilation if general ventilation is insufficient to maintain vapor concentration below established exposure limits.

Respiratory protection:

Use NIOSH approved respirator if there is potential to exceed exposure limit(s). Observe OSHA regulations for respirator use (29 CFR 1910.134).

| | |
|-----------------------------|---|
| Eye/face protection: | Safety goggles or safety glasses with side shields. Full face protection should be used if the potential for splashing or spraying of product exists. |
| Skin protection: | Use impermeable gloves and protective clothing as necessary to prevent skin contact. |

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|--|
| Physical state: | Paste |
| Color: | Copper |
| Odor: | Mild |
| Odor threshold: | Not available. |
| pH: | Not applicable, Product is non-soluble (in water). |
| Vapor pressure: | < 1 hPa (20 °C (68°F)) |
| Boiling point/range: | > 100 °C (> 212°F) |
| Melting point/ range: | Not applicable, Product is a liquid |
| Density/Relative density: | 1.30 |
| Relative vapor density: | > 1 20 °C Heavier than air. |
| Flash point: | > 93 °C (> 199.4 °F) |
| Flammable/Explosive limits - lower: | Not available. |
| Flammable/Explosive limits - upper: | Not available. |
| Autoignition temperature: | Not determined |
| Flammability: | The product is not flammable. |
| Evaporation rate: | Not available. |
| Solubility: | Not miscible or difficult to mix Water |
| Partition coefficient n-octanol/water (logarithmic value): | Not available. |
| VOC content: | < 3 % Estimated |
| Dynamic viscosity: | Not available. |
| Kinematic viscosity: | > 20.5 mm ² /s |
| Particle characteristics: | Not applicable, Product is a liquid |
| Decomposition temperature: | Not available. |

10. STABILITY AND REACTIVITY

| | |
|--|--|
| Stability: | Stable at normal conditions. |
| Hazardous reactions: | Will not occur. |
| Hazardous decomposition products: | Hydrocarbons. Oxides of carbon. |
| Incompatible materials: | Strong acids and strong bases. Oxidizing agents. |
| Reactivity: | Not available. |
| Conditions to avoid: | Prolonged exposure to heat. |

11. TOXICOLOGICAL INFORMATION

| | |
|-----------------------------------|-----------------------------------|
| Likely routes of exposure: | Skin, Inhalation, Eyes, Ingestion |
|-----------------------------------|-----------------------------------|

Potential Health Effects/Symptoms

| | |
|----------------------|---|
| Inhalation: | Inhalation of copper fumes may result in metal fume fever. Symptoms include metallic taste, discoloration of skin or hair. May cause respiratory tract irritation. Contains crystalline silica (quartz), which is classified as a possible carcinogen. However, the crystalline silica present in this product is encapsulated in the liquid and will only be liberated if the product is sanded or abraded, and even then what is liberated will not be pure crystalline silica. Appropriate precautions, however, should be taken if the product is sanded or abraded to prevent personnel from breathing the dust. |
| Skin contact: | Causes skin irritation. |
| Eye contact: | Causes serious eye damage. |
| Ingestion: | May cause gastrointestinal tract irritation if swallowed. |

| Hazardous Component(s) | LD50s and LC50s |
|---|---|
| Distillates (petroleum), hydrotreated heavy naphthenic <3%DMSO | Inhalation LC50 (Rat, 4 h) = > 4.026 mg/l Inhalation LC50 (Rat, 4 h) = 2.18 mg/l Inhalation LC50 (Rat, 4 h) = 10.5 mg/l Inhalation LC50 (Rat, 4 h) = > 5.2 mg/l Inhalation LC50 (Rat, 4 h) = < 5.7 mg/l |
| Distillates (petroleum), hydrotreated heavy naphthenic | Inhalation LC50 (Rat, 4 h) = > 4.026 mg/l Inhalation LC50 (Rat, 4 h) = 2.18 mg/l Inhalation LC50 (Rat, 4 h) = 10.5 mg/l Inhalation LC50 (Rat, 4 h) = > 5.2 mg/l Inhalation LC50 (Rat, 4 h) = < 5.7 mg/l |
| Calcium dihydroxide | Oral LD50 (Rat) = 7,340 mg/kg |
| Copper | Inhalation LC50 (Rat, 4 h) = > 5.11 mg/l |
| Graphite | Inhalation LC50 (Rat, 4 h) = > 2,000 mg/m3 Inhalation LC50 (Rat, 4 h) = > 2,000 mg/m3 |
| calcium(2+) 12-hydroxyoctadecanoate | None |
| Quartz (SiO2) "respirable particulates (reaches the alveoli)" (RCS) <0.1% | None |
| copper flakes (coated with aliphatic acid) | None |
| Quartz (SiO2) respirable particulates (RCS) >=10% | None |

| Hazardous Component(s) | Immediate Health Effects | Delayed Health Effects | Chronic Health Effects |
|---|--------------------------|------------------------|--|
| Distillates (petroleum), hydrotreated heavy naphthenic <3%DMSO | | | |
| Distillates (petroleum), hydrotreated heavy naphthenic | Irritant | | |
| Calcium dihydroxide | Irritant Corrosive | | |
| Copper | Irritant | Allergen | Blood Central nervous system Developmental Gastrointestinal Immune system Kidney Liver Mutagen Sensory Skin |
| Graphite | | | Lung |
| calcium(2+) 12-hydroxyoctadecanoate | | | |
| Quartz (SiO2) "respirable particulates (reaches the alveoli)" (RCS) <0.1% | | | |
| copper flakes (coated with aliphatic acid) | | | |
| Quartz (SiO2) respirable particulates (RCS) >=10% | | | |

| Hazardous Component(s) | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|--|----------------|-----------------|--|
| Distillates (petroleum), hydrotreated heavy naphthenic <3%DMSO | No | No | No |
| Distillates (petroleum), hydrotreated heavy naphthenic | No | No | No |
| Calcium dihydroxide | No | No | No |
| Copper | No | No | No |
| Graphite | No | No | No |
| calcium(2+) 12-hydroxyoctadecanoate | No | No | No |

| | | | |
|--|-------------------------------|---------|-----|
| Quartz (SiO ₂) "respirable particulates (reaches the alveoli)" (RCS) <0.1% | Known To Be Human Carcinogen. | Group 1 | Yes |
| copper flakes (coated with aliphatic acid) | No | No | No |
| Quartz (SiO ₂) respirable particulates (RCS) >=10% | Known To Be Human Carcinogen. | Group 1 | Yes |

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.

14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any packaging.

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Copper)
Hazard class or division: 9
Identification number: UN 3082
Packing group: III
Marine pollutant: Copper
DOT Hazardous Substance(s): Copper

International Air Transportation (ICAO/IATA)

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Copper)
Hazard class or division: 9
Identification number: UN 3082
Packing group: III

Water Transportation (IMO/IMDG)

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Copper)
Hazard class or division: 9
Identification number: UN 3082
Packing group: III
Marine pollutant: Copper

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: None above reporting de minimis.
CERCLA/SARA Section 302 EHS: None above reporting de minimis.
CERCLA/SARA Section 311/312: Please refer to the GHS classification in Section 2
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). Copper (CAS# 7440-50-8). copper flakes (coated with aliphatic acid) (CAS# 7440-50-8).
CERCLA Reportable quantity: Copper (CAS# 7440-50-8) 5,000 lbs. (2,270 kg)
California Proposition 65: This product contains a chemical known in the State of California to cause cancer. This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Canada Regulatory Information

CEPA DSL/NDL 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: 3,8,9,11

Prepared by: Product Safety and Regulatory Affairs

Issue date: 04/03/2025

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