



Revision Number: 003.0

Issue date: 08/28/2014

1. PRODUCT AND COMPANY IDENTIFICATION

| | | | |
|-------------------------------|---|---------------------|---------------|
| Product name: | LOCTITE LB N-1000 HIGH PERFORMANCE ANTI-SIEZE known as N-1000 High Purity Anti-Seize | IDH number: | 234251 |
| Product type: | Lubricant | Item number: | 51115 |
| Restriction of Use: | None identified | Region: | United States |
| Company address: | Contact information: | | |
| Henkel Corporation | Telephone: (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

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

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| 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

IDH number: 234251

Product name: LOCTITE LB N-1000 HIGH PERFORMANCE ANTI-SIEZE known as N-1000 High Purity Anti-Seize

| Hazardous Component(s) | CAS Number | Percentage* |
|------------------------|------------|-------------|
| White mineral oil~ | | 30 - 60 |
| Graphite | 7782-42-5 | 10 - 30 |
| Copper | 7440-50-8 | 10 - 30 |
| Rheological additive | Unknown | 1 - 5 |
| Butyl hydroxytoluene | 128-37-0 | 0.1 - 1 |
| Octadecanoic acid | 57-11-4 | 0.1 - 1 |

* Exact percentage is a trade secret. Concentration range is provided to assist users in providing appropriate protections.

4. FIRST AID MEASURES

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| Inhalation: | Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. |
| Skin contact: | Remove contaminated clothing and footwear. Immediately flush skin with plenty of water (using soap, if available). Get medical attention. Wash clothing before reuse. |
| Eye contact: | Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention. |
| Ingestion: | Do not induce vomiting. Never give anything by mouth to an unconscious person. Aspiration may cause pulmonary edema and pneumonitis. Get medical attention. |
| Symptoms: | See Section 11. |

5. FIRE FIGHTING MEASURES

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| Extinguishing media: | Water spray (fog), foam, dry chemical or carbon dioxide. |
| Special firefighting procedures: | Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. In case of fire, keep containers cool with water spray. |
| 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.

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| Environmental precautions: | Do not allow material to contaminate ground water system. |
| Clean-up methods: | Scrape up as much material as possible. Store in a closed container until ready for disposal. Clean residue with soap and water. |

7. HANDLING AND STORAGE

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| Handling: | Use only with adequate ventilation. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Keep container closed. |
| Storage: | 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 contact Henkel Customer Service at (800) 243-4874.

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 |
|------------------------|---|--|-----------|-------|
| White mineral oil~ | 5 mg/m3 TWA mist 10 mg/m3 STEL mist | 5 mg/m3 TWA mist | None | None |
| Graphite | 2 mg/m3 TWA Respirable fraction. | 5 mg/m3 PEL Respirable fraction. 15 mg/m3 PEL Total dust. 15 MPPCF TWA | 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 |
| Rheological additive | None | None | None | None |
| Butyl hydroxytoluene | 2 mg/m3 TWA Inhalable fraction and vapor. | None | None | None |
| Octadecanoic acid | 10 mg/m3 TWA | None | None | None |

| | |
|--------------------------------|---|
| Engineering controls: | 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). Observe OSHA regulations for respirator use (29 CFR 1910.134). |
| Eye/face protection: | Safety glasses with side-shields. Full face protection should be used if the potential for splashing or spraying of product exists. Safety showers and eye wash stations should be available. |
| 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

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|---|---|
| Physical state: | Viscous, Liquid |
| Color: | Copper |
| Odor: | Mild, Petroleum |
| Odor threshold: | Not available. |
| pH: | Not applicable |
| Vapor pressure: | Not available. |
| Boiling point/range: | Not available. |
| Melting point/ range: | Not available. |
| Specific gravity: | 1.2331 |
| Vapor density: | Heavier than air. |
| Flash point: | > 227 °C (> 440.6 °F) HST-US D09F; Flash/Fire Point By Cleveland Open Cup |
| Flammable/Explosive limits - lower: | Not determined |
| Flammable/Explosive limits - upper: | Not determined |
| Autoignition temperature: | Not determined |
| Evaporation rate: | Less than butyl acetate. |
| Solubility in water: | Insoluble |
| Partition coefficient (n-octanol/water): | Not determined |
| VOC content: | Essentially Zero |
| Viscosity: | Not available. |
| Decomposition temperature: | Not available. |

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure: Skin, Inhalation, Eyes, Ingestion

Potential Health Effects/Symptoms

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| Inhalation: | Inhalation of copper fumes may result in metal fume fever. Symptoms include metallic taste, discoloration of skin or hair. |
| Skin contact: | Causes skin irritation. May cause allergic skin reaction. |
| Eye contact: | Causes serious eye irritation. |
| Ingestion: | May cause gastrointestinal disturbances. |

| Hazardous Component(s) | LD50s and LC50s | Immediate and Delayed Health Effects |
|------------------------|-----------------------------|--|
| White mineral oil~ | None | Irritant |
| Graphite | None | Lung |
| Copper | None | Allergen, Blood, Central nervous system, Developmental, Gastrointestinal, Immune system, Irritant, Kidney, Liver, Mutagen, Sensory, Skin |
| Rheological additive | None | No Data |
| Butyl hydroxytoluene | Oral LD50 (RAT) = 890 mg/kg | Irritant, Mutagen |
| Octadecanoic acid | Oral LD50 (RAT) = 4.6 g/kg | Irritant |

| Hazardous Component(s) | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|------------------------|----------------|-----------------|--|
| White mineral oil~ | No | No | No |
| Graphite | No | No | No |
| Copper | No | No | No |
| Rheological additive | No | No | No |
| Butyl hydroxytoluene | No | No | No |
| Octadecanoic acid | 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.
Hazardous waste number: Not a RCRA hazardous waste.

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: RQ, Environmentally hazardous substances, 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.
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 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). Copper (CAS# 7440-50-8).
CERCLA Reportable quantity: Copper (CAS# 7440-50-8) 5,000 lbs. (2,270 kg)
California Proposition 65: No California Proposition 65 listed chemicals are known to be present.

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: New Safety Data Sheet format.

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