



Revision Number: 002.2

Issue date: 03/25/2019

1. PRODUCT AND COMPANY IDENTIFICATION

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|-------------------------------|--|---------------------|---------------|
| Product name: | BONDERITE L-GP M 210 ACHESON | IDH number: | 1224747 |
| Product type/use: | Lubricant | Item number: | 1224747 |
| Restriction of Use: | None identified | Region: | United States |
| Company address: | Contact information: | | |
| Henkel Corporation | Telephone: +1 (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

DANGER: HIGHLY FLAMMABLE LIQUID AND VAPOR.
CAUSES SERIOUS EYE IRRITATION.
MAY CAUSE DROWSINESS OR DIZZINESS.
SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD.

| HAZARD CLASS | HAZARD CATEGORY |
|--|-----------------|
| FLAMMABLE LIQUID | 2 |
| EYE IRRITATION | 2A |
| REPRODUCTIVE TOXICITY | 2 |
| SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE | 3 |

PICTOGRAM(S)



Precautionary Statements

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| Prevention: | Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, sparks, open flames, hot surfaces - no smoking. Keep container tightly closed. No release into water. Use explosion-proof equipment. Use non-sparking tools. Take action to prevent static discharges. Avoid breathing vapors, mist, or spray. Wash affected area thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves, clothing, eye and face protection. |
| Response: | If on skin (or hair): Take off immediately all contaminated clothing. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical attention. If eye irritation persists: Get medical attention. In case of fire: Use foam, dry chemical or carbon dioxide to extinguish. |
| Storage: | Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up. |
| 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

| Hazardous Component(s) | CAS Number | Percentage* |
|---|------------|-------------|
| 2-Propanol | 67-63-0 | 70 - 80 |
| Molybdenum disulphide | 1317-33-5 | 10 - 30 |
| Ethylcellulose | 9004-57-3 | 5 - 10 |
| 1,2,4-Trimethylbenzene | 95-63-6 | 1 - 5 |
| Solvent naphtha (petroleum), light arom., <0.1% Benzene | 64742-95-6 | 1 - 5 |
| Tris(methylphenyl) phosphate | 1330-78-5 | 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

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| Inhalation: | If inhaled, immediately remove the affected person to fresh air. If symptoms develop and persist, get medical attention. |
| Skin contact: | Immediately wash skin thoroughly with soap and water. If symptoms develop and persist, get medical attention. |
| Eye contact: | Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Seek medical attention at once. |
| Ingestion: | Get immediate medical attention. Do not induce vomiting. Give one to two glasses of water or milk. Never give anything by mouth to a victim who is unconscious or is having convulsions. |
| Symptoms: | See Section 11. |
| Notes to physician: | Treat symptomatically and supportively. |

5. FIRE FIGHTING MEASURES

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| Extinguishing media: | Water spray (fog), foam, dry chemical or carbon dioxide. |
| Special firefighting procedures: | Wear full protective clothing. Wear self-contained breathing apparatus. |
| Unusual fire or explosion hazards: | DANGEROUS when exposed to heat or flame. This material can be ignited by flame or spark under all normal atmospheric conditions. Vapors are heavier than air and may travel to ignition sources and flash back. Formation of toxic gases is possible during heating or in fires. |
| Hazardous combustion products: | Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. |

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: | Prevent further leakage or spillage if safe to do so. Wear appropriate protective equipment and clothing during clean-up. Remove all sources of ignition. Do not allow product to enter sewer or waterways. |
|-----------------------------------|---|

Clean-up methods:

Absorb spill with inert material. Shovel material into appropriate container for disposal. Dispose of according to Federal, State and local governmental regulations.

7. HANDLING AND STORAGE

Handling:

Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Avoid breathing vapors or mists of this product. Use only with adequate ventilation. Do not take internally. For industrial use only.

Storage:

For safe storage, store between 5.0 °C (41°F) and 30.0 °C (86°F). Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials. Outside temperature limits, the properties of the product will change. Store in original container until ready to use. Keep out of reach of children and away from food and drink. Protect from direct sunlight. Ground and bond metal containers for liquid transfer to avoid static sparks.

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 |
|---|--|----------------------------------|-----------|--------|
| 2-Propanol | 200 ppm TWA 400 ppm STEL | 400 ppm (980 mg/m3) PEL | None | None |
| Molybdenum disulphide | 10 mg/m3 TWA (as Mo) Inhalable fraction. 3 mg/m3 TWA (as Mo) Respirable fraction. | 15 mg/m3 PEL (as Mo) Total dust. | None | None |
| Ethylcellulose | None | None | None | None |
| 1,2,4-Trimethylbenzene | 25 ppm TWA | None | None | None |
| Solvent naphtha (petroleum), light arom., <0.1% Benzene | None | None | None | 50 ppm |
| Tris(methylphenyl) phosphate | None | None | None | None |

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.

Respiratory protection:

If ventilation is not sufficient to effectively prevent buildup of aerosols, mists or vapors, appropriate NIOSH/MSHA respiratory protection must be provided.

Eye/face protection:

Wear safety glasses; chemical goggles (if splashing is possible).

Skin protection:

Wear impervious gloves for prolonged contact. Gloves should be tested to determine suitability for prolonged contact. Use of impervious apron and boots are recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:

Liquid

Color:

Gray green

Odor:

Alcoholic

Odor threshold:

7.5 ppm

pH:

Not applicable

pH:

Not applicable

Vapor pressure:

33 mm hg

Boiling point/range:

82 °C (179.6 °F)

Melting point/ range:

-88.8 °C (-127.8 °F)

| | |
|--|---|
| Specific gravity: | 0.91 |
| Vapor density: | 2.07 (Air = 1) |
| Flash point: | 11.6 °C (52.88 °F) Tagliabue closed cup |
| Flammable/Explosive limits - lower: | 2 % |
| Flammable/Explosive limits - upper: | 12 % |
| Autoignition temperature: | Not applicable |
| Flammability: | Not applicable |
| Evaporation rate: | 2.9 (Butyl acetate = 1) |
| Solubility in water: | Disperses in water as a suspension |
| Partition coefficient (n-octanol/water): | -0.14 |
| VOC content: | 710 g/l |
| Viscosity: | 150 - 600 cp |
| Decomposition temperature: | Not available. |

10. STABILITY AND REACTIVITY

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| Stability: | Stable at normal conditions. |
| Hazardous reactions: | None under normal processing. |
| Hazardous decomposition products: | Thermal decomposition can lead to release of irritating gases and vapors. Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. |
| Incompatible materials: | Reacts with air to form peroxides. |
| Reactivity: | Not available. |
| Conditions to avoid: | Avoid strong oxidizing agents. Avoid excessive heat and ignition sources. |

11. TOXICOLOGICAL INFORMATION

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| Relevant routes of exposure: | Skin, Inhalation, Eyes |
|-------------------------------------|------------------------|

Potential Health Effects/Symptoms

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| Inhalation: | This product is irritating to the respiratory system. Excessive inhalation of this material causes headache, dizziness, nausea and incoordination. |
| Skin contact: | Prolonged or repeated skin contact may result in redness, burning sensation or dermatitis. A component in this product may be absorbed through the skin in harmful amounts. |
| Eye contact: | This product is severely irritating to the eyes and may cause irreversible damage including burns and blindness. |
| Ingestion: | Small amounts of this product, if aspirated into the lungs, may cause mild to severe pulmonary injury. This product is harmful or fatal if swallowed. Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause dizziness, incoordination, headache, nausea, and vomiting. |

| Hazardous Component(s) | LD50s and LC50s | Immediate and Delayed Health Effects |
|---|--|--|
| 2-Propanol | Oral LD50 (Rat) = 5,045 mg/kg Oral LD50 (Mouse) = 3,600 mg/kg Oral LD50 (Rabbit) = 6,410 mg/kg Oral LD50 (Rat) = 4.7 g/kg Oral LD50 (Mouse) = 4.5 g/kg Oral LD50 (Rabbit) = 8.0 g/kg Oral LD50 (Rabbit) = 5.03 g/kg Dermal LD50 (Rabbit) = 12,800 mg/kg | Allergen, Central nervous system, Irritant |
| Molybdenum disulphide | None | No Target Organs |
| Ethylcellulose | None | Irritant |
| 1,2,4-Trimethylbenzene | Oral LD50 (Rat) = 6.0 g/kg Dermal LD50 (Rabbit) = > 3,160 mg/kg | Central nervous system, Irritant, Respiratory |
| Solvent naphtha (petroleum), light arom., <0.1% Benzene | None | Irritant |
| Tris(methylphenyl) phosphate | None | Blood, Gastrointestinal, Irritant, Kidney, Liver, Nervous System, Reproductive |

| Hazardous Component(s) | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|---|----------------|-----------------|--|
| 2-Propanol | No | No | No |
| Molybdenum disulphide | No | No | No |
| Ethylcellulose | No | No | No |
| 1,2,4-Trimethylbenzene | No | No | No |
| Solvent naphtha (petroleum), light arom., <0.1% Benzene | No | No | No |
| Tris(methylphenyl) phosphate | 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: If discarded, this product is considered a RCRA ignitable waste, D001.

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: Isopropyl alcohol solution
Hazard class or division: 3
Identification number: UN 1219
Packing group: II
DOT Hazardous Substance(s): Xylene (mixed)

International Air Transportation (ICAO/IATA)

Proper shipping name: Isopropyl alcohol solution
Hazard class or division: 3
Identification number: UN 1219
Packing group: II

Water Transportation (IMO/IMDG)

Proper shipping name: ISOPROPYL ALCOHOL solution
Hazard class or division: 3
Identification number: UN 1219
Packing group: II

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, Fire
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). 1,2,4-Trimethylbenzene (CAS# 95-63-6).
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: This Safety Data Sheet contains changes from the previous version in Section(s): 2, 3, 8, 11

Prepared by: Product Safety and Regulatory Affairs

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