



Revision Number: 002.5

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1. PRODUCT AND COMPANY IDENTIFICATION

Product name: BONDERITE L-MR B-204 SEMI SYNTHETIC COOLANT known as MULTAN B-204
IDH number: 1052099
Product type/use: Lubricant
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
 Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

WARNING: CAUSES SKIN IRRITATION.
 MAY CAUSE AN ALLERGIC SKIN REACTION.
 CAUSES SERIOUS EYE IRRITATION.
 SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD.

| HAZARD CLASS | HAZARD CATEGORY |
|-----------------------|-----------------|
| SKIN IRRITATION | 2 |
| EYE IRRITATION | 2A |
| SKIN SENSITIZATION | 1 |
| REPRODUCTIVE TOXICITY | 2 |

PICTOGRAM(S)



Precautionary Statements

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing vapors, mist, or spray. Wash affected area thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, clothing, eye and face protection.
Response: IF ON SKIN: Wash with plenty of water. 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 skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical attention. Take off contaminated clothing.
Storage: Store locked up.
Disposal: Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

3 % of the mixture consists of ingredient(s) of unknown acute toxicity.

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* |
|---|-------------|-------------|
| Distillates (petroleum), hydrotreated heavy naphthenic | 64742-52-5 | 10 - 30 |
| (Z)-N-[2-(2-hydroxyethoxy)ethyl]-9-octadecenamide | 20429-33-8 | 5 - 10 |
| Boric acid (H ₃ BO ₃), compd. with 2-(2-aminoethoxy) | 124756-59-8 | 5 - 10 |
| Dicyclohexylamine | 101-83-7 | 1 - 5 |

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

4. FIRST AID MEASURES

| | |
|----------------------------|--|
| Inhalation: | If mist or vapor of this product is inhaled, remove person immediately to fresh air. Seek medical attention if symptoms develop or persist. |
| Skin contact: | For skin contact flush with large amounts of water. Obtain medical attention if irritation persists. |
| 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 unless directed to do so by medical personnel. 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

| | |
|---|--|
| 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: | May liberate large quantities of dense, foul-smelling smoke which may contain unidentified toxic gasses. |
| Hazardous combustion products: | Upon decomposition, this product emits oxides of sulfur, 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.

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

Clean-up methods:

Collect spilled material with an inert absorbent such as sand or vermiculite. Place in properly labeled closed container. Flush area with water to remove trace residue. Dispose of according to Federal, State and local governmental regulations.

7. HANDLING AND STORAGE

Handling:

Avoid skin and eye contact. Wash thoroughly after handling. Use only with adequate ventilation. Do not mix this product with fluids which contain NITRITES/NITRATES. NITROSAMINE may be formed.

Storage:

For safe storage, store between 5 °C (41°F) and 50 °C (122°F)
Store in a cool, dry, well-ventilated area. Thaw and mix thoroughly if frozen.

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 | 5 mg/m3 TWA Inhalable fraction. | 500 ppm (2,000 mg/m3) PEL 5 mg/m3 PEL Mist. | None | None |
| (Z)-N-[2-(2-hydroxyethoxy)ethyl]-9-octadecenamide | None | None | None | None |
| Boric acid (H3BO3), compd. with 2-(2-aminoethoxy) | None | None | None | None |
| Dicyclohexylamine | 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. Use of impervious apron and boots are recommended. Gloves should be tested to determine suitability for prolonged contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|-------------------------------------|
| Physical state: | Liquid |
| Color: | Amber |
| Odor: | Amine |
| Odor threshold: | Not available. |
| pH: | 9.8 - 10.3 |
| Vapor pressure: | Not determined |
| Boiling point/range: | > 100 °C (> 212°F)calculated |
| Melting point/ range: | Not determined |
| Specific gravity: | 1.00 - 1.01 |
| Vapor density: | Not determined |
| Flash point: | > 93.33 °C (> 199.99 °F) calculated |
| Flammable/Explosive limits - lower: | Not available. |
| Flammable/Explosive limits - upper: | Not available. |
| Autoignition temperature: | Not determined |
| Flammability: | Not applicable |
| Evaporation rate: | Not determined |
| Solubility in water: | Complete |
| Partition coefficient (n-octanol/water): | Not determined |

VOC content: Not applicable
Viscosity: 60 mPa.s
Decomposition temperature: Not available.

10. STABILITY AND REACTIVITY

Stability: Stable at normal conditions.

Hazardous reactions: Will not occur.

Hazardous decomposition products: Upon decomposition, this product emits oxides of sulfur, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Oxides of nitrogen.

Incompatible materials: This product may react with strong acids or oxidizing agents. Nitrites may react with organic amines to form nitrosamines which can cause cancer.

Reactivity: Not available.

Conditions to avoid: Avoid excessive heat and ignition sources.

11. TOXICOLOGICAL INFORMATION

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

Potential Health Effects/Symptoms

Inhalation: Inhalation of high vapor concentrations may produce respiratory irritation, and may cause central nervous system (CNS) depression.

Skin contact: This product is irritating to the skin. Prolonged or repeated contact with this product may dry and/or defat the skin. This product may cause an allergic skin reaction.

Eye contact: This product is severely irritating to the eyes and may cause eye burns.

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Small amounts of this product, if aspirated into the lungs, may cause mild to severe pulmonary injury.

| Hazardous Component(s) | LD50s and LC50s | Immediate and Delayed Health Effects |
|--|---|---|
| Distillates (petroleum), hydrotreated heavy naphthenic | Inhalation LC50 (Rat, 4 h) = 2.18 mg/l Inhalation LC50 (Rat, 4 h) = < 5.7 mg/l Inhalation LC50 (Rat, 4 h) = > 5.2 mg/l Inhalation LC50 (Rat, 4 h) = 10.5 mg/l Inhalation LC50 (Rat, 4 h) = > 4.026 mg/l | Irritant |
| (Z)-N-[2-(2-hydroxyethoxy)ethyl]-9-octadecenamide | None | No Records |
| Boric acid (H3BO3), compd. with 2-(2-aminoethoxy) | None | Cardiac, Central nervous system, Developmental, Gastrointestinal, Irritant, Kidney, Metabolic, Reproductive |
| Dicyclohexylamine | Oral LD50 (Rat) = 373 mg/kg | Allergen, Blood, Central nervous system, Corrosive, Irritant, Kidney, Liver, Mutagen |

| Hazardous Component(s) | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|--|----------------|-----------------|--|
| Distillates (petroleum), hydrotreated heavy naphthenic | No | No | No |
| (Z)-N-[2-(2-hydroxyethoxy)ethyl]-9-octadecenamide | No | No | No |
| Boric acid (H3BO3), compd. with 2-(2-aminoethoxy) | No | No | No |
| Dicyclohexylamine | No | No | No |

12. ECOLOGICAL INFORMATION

Ecological information: Harmful to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Dispose of according to Federal, State and local governmental regulations.

Hazardous waste number: Material, if discarded, is not expected to be a characteristic hazardous waste under RCRA.

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: | Not regulated |
| Hazard class or division: | None |
| Identification number: | None |
| Packing group: | None |

International Air Transportation (ICAO/IATA)

| | |
|----------------------------------|--|
| Proper shipping name: | Environmentally hazardous substance, liquid, n.o.s. (Dicyclohexyl amine) |
| 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. (Dicyclohexyl amine) |
| Hazard class or division: | 9 |
| Identification number: | UN 3082 |
| Packing group: | III |
| Marine pollutant: | Dicyclohexyl amine |
| Exceptions: | Classified per IMDG Amendment 34; Effective Jan 1, 2010. |

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: Amine borates (CAS# 124756-59-8).

CERCLA/SARA Section 302 EHS: None above reporting de minimis.

CERCLA/SARA Section 311/312: Immediate Health, Delayed Health

CERCLA/SARA Section 313: None above reporting de minimis.

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: One or more components are not listed on, and are not exempt from listing on either the Domestic Substances List or the Non-Domestic Substances List.

16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: New Safety Data Sheet format.

Prepared by: Regulatory Affairs

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