

SAFETY DATA SHEET

Wheel Bearing Lubricant

According to Appendix D, OSHA Hazard Communication Standard 29 CFR §1910.1200

| 1. Identification | |
|---|---|
| | |
| Product identifier | |
| Product name | Wheel Bearing Lubricant |
| Product number | L0220-004, L0220-005, L0220-035, L0220-039, L0220-040 |
| Recommended use of the che | emical and restrictions on use |
| Application | Lubricating grease. |
| Uses advised against | No specific uses advised against are identified. |
| Details of the supplier of the s | safety data sheet |
| Manufacturer | Lubriplate Lubricants Co. Corporate Headquarters 129 Lockwood Street Newark, NJ 07105 |
| | Midwest Office & Plant 1500 Oakdale Ave. Toledo, OH 43605 419-691-2491 419-693-3806 |
| Emergency telephone number | <u>)</u> |
| Emergency telephone | Chem-Tel: 1-800-255-3924 (US & Canada only) 01-813-248-0585 (Outside US & Canada) |
| 2. Hazard(s) identification | |
| Classification of the substanc | ze or mixture |
| Physical bazarda | |
| Physical hazards | Not Classified |
| Physical nazards Health hazards | Not Classified Skin Sens. 1 - H317 |
| - | |
| Health hazards | Skin Sens. 1 - H317 |
| Health hazards Environmental hazards | Skin Sens. 1 - H317 |
| Health hazards Environmental hazards Label elements | Skin Sens. 1 - H317 |
| Health hazards Environmental hazards Label elements | Skin Sens. 1 - H317 |

| Precautionary statements | P261 Avoid breathing dust. P272 Contaminated work clothing must not be allowed out of the workplace. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P302+P352 If on skin: Wash with plenty of water. P321 Specific treatment (see medical advice on this label). P333+P313 If skin irritation or rash occurs: Get medical advice/ attention. P362+P364 Take off contaminated clothing and wash it before reuse. P391 Collect spillage. P501 Dispose of contents/ container in accordance with national regulations. |
|--------------------------|---|
| Contains | Zinc bis(dibutyldithiocarbamate) |

Other hazards

This product does not contain any substances classified as PBT or vPvB.

3. Composition/information on ingredients

| CAS number: 1314-13-2 M factor (Acute) = 1 M factor (Chronic) = 1 Classification Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410 Zinc bis(dibutyldithiocarbamate) < 1 CAS number: 136-23-2 M factor (Acute) = 1 M factor (Chronic) = 10 Classification Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 Skin Sens. 1 - H317 STOT SE 3 - H335 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410 | Mixtures | | |
|--|-----------------------------------|-------------------------|-------|
| M factor (Acute) = 1 M factor (Chronic) = 1 Classification Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410 (Aquatic Chronic 1 - H410) Zinc bis(dibutyldithiocarbamate) (Another Chronic) = 10 CAS number: 136-23-2 M factor (Chronic) = 10 M factor (Acute) = 1 M factor (Chronic) = 10 Classification Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 Skin Sens. 1 - H317 STOT SE 3 - H335 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410 (Chronic 1 - H410) Distillates (petroleum), hydrotreated heavy naphthenic (Another Chronic) = 10 | zinc oxide | | 5-10% |
| Classification Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410 Zinc bis(dibuty/dithiocarbamate) CAS number: 136-23-2 M factor (Acute) = 1 M factor (Acute) = 1 M factor (Chronic) = 10 Classification Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 Skin Sens. 1 - H317 STOT SE 3 - H335 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410 | CAS number: 1314-13-2 | | |
| Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410 Zinc bis(dibuty/dithiocarbamate) CAS number: 136-23-2 M factor (Acute) = 1 M factor (Acute) = 1 M factor (Chronic) = 10 Classification Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 Skin Sens. 1 - H317 STOT SE 3 - H335 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410 Distillates (petroleum), hydrotreated heavy naphthenic | M factor (Acute) = 1 | M factor (Chronic) = 1 | |
| Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410 Zinc bis(dibuty/dithiocarbamate) CAS number: 136-23-2 M factor (Acute) = 1 M factor (Acute) = 1 M factor (Chronic) = 10 Classification Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 Skin Sens. 1 - H317 STOT SE 3 - H335 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410 Distillates (petroleum), hydrotreated heavy naphthenic | Classification | | |
| Aquatic Chronic 1 - H410 <1 | | | |
| CAS number: 136-23-2 M factor (Acute) = 1 M factor (Chronic) = 10 Classification Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 Skin Sens. 1 - H317 STOT SE 3 - H335 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410 Distillates (petroleum), hydrotreated heavy naphthenic | Aquatic Chronic 1 - H410 | | |
| CAS number: 136-23-2 M factor (Acute) = 1 M factor (Chronic) = 10 Classification Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 Skin Sens. 1 - H317 STOT SE 3 - H335 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410 Distillates (petroleum), hydrotreated heavy naphthenic | Zinc bis(dibutyldithiocarbamate | | <1% |
| M factor (Acute) = 1 M factor (Chronic) = 10 Classification Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 Skin Sens. 1 - H317 STOT SE 3 - H335 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410 Distillates (petroleum), hydrotreated heavy naphthenic | | | |
| Classification Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 Skin Sens. 1 - H317 STOT SE 3 - H335 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410 Distillates (petroleum), hydrotreated heavy naphthenic | | M faster (Chronic) = 40 | |
| Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 Skin Sens. 1 - H317 STOT SE 3 - H335 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410 Distillates (petroleum), hydrotreated heavy naphthenic | M factor (Acute) = 1 | M factor (Chronic) = 10 | |
| Eye Irrit. 2A - H319 Skin Sens. 1 - H317 STOT SE 3 - H335 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410 Distillates (petroleum), hydrotreated heavy naphthenic | Classification | | |
| Skin Sens. 1 - H317 STOT SE 3 - H335 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410 Distillates (petroleum), hydrotreated heavy naphthenic | Skin Irrit. 2 - H315 | | |
| STOT SE 3 - H335 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410 Distillates (petroleum), hydrotreated heavy naphthenic | Eye Irrit. 2A - H319 | | |
| Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410 Distillates (petroleum), hydrotreated heavy naphthenic | Skin Sens. 1 - H317 | | |
| Aquatic Chronic 1 - H410 Distillates (petroleum), hydrotreated heavy naphthenic <1 | STOT SE 3 - H335 | | |
| Distillates (petroleum), hydrotreated heavy naphthenic <1 | Aquatic Acute 1 - H400 | | |
| | Aquatic Chronic 1 - H410 | | |
| | Distillates (netroleum), hydrotre | ated heavy nanhthenic | <1% |
| UAS HUITIBEL 04/42-32-3 | . , , | | 170 |
| | CAS number: 04/42-52-5 | | |
| Classification | Classification | | |
| Not Classified | Not Classified | | |

| Amine neutralized dinonylnaphthalene sulfonic acid <1% | | |
|--|--|--|
| CAS number: — | | |
| Classification Flam. Liq. 4 - H227 Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 | | |
| The full text for all hazard state | ements is displayed in Section 16. | |
| 4. First-aid measures | | |
| Description of first aid measur | es | |
| General information | If in doubt, get medical attention promptly. Show this Safety Data Sheet to the medical personnel. | |
| Inhalation | Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Loosen tight clothing such as collar, tie or belt. Get medical attention if symptoms are severe or persist. | |
| Ingestion | Rinse mouth thoroughly with water. Get medical advice/attention if you feel unwell. Do not induce vomiting unless under the direction of medical personnel. | |
| Skin Contact | Rinse with water. | |
| Eye contact | Remove any contact lenses and open eyelids wide apart. Rinse with water. Get medical attention if any discomfort continues. | |
| Protection of first aiders | First aid personnel should wear appropriate protective equipment during any rescue. | |
| Most important symptoms and | effects, both acute and delayed | |
| General information | The severity of the symptoms described will vary dependent on the concentration and the length of exposure. | |
| Inhalation | No specific symptoms known. | |
| Ingestion | No specific symptoms known. | |
| Skin contact | No specific symptoms known. | |
| Eye contact | No specific symptoms known. May be slightly irritating to eyes. | |
| Indication of immediate medic | al attention and special treatment needed | |
| Notes for the doctor | Treat symptomatically. | |
| 5. Fire-fighting measures | | |
| Extinguishing media | | |
| Suitable extinguishing media | The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire. | |
| Unsuitable extinguishing media | Do not use water jet as an extinguisher, as this will spread the fire. | |
| Special hazards arising from t | he substance or mixture | |
| Specific hazards | Containers can burst violently or explode when heated, due to excessive pressure build-up. | |
| Hazardous combustion products | Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors. | |

| Advice for firefighters | |
|--|---|
| Protective actions during firefighting | Avoid breathing fire gases or vapors. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapors and protect men stopping the leak. Avoid discharge to the aquatic environment. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities. |
| Special protective equipment for firefighters | Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Standard Firefighter's clothing including helmets, protective boots and gloves will provide a basic level of protection for chemical incidents. |

6. Accidental release measures

| Personal precautions, protective equipment and emergency procedures | | |
|---|---|--|
| Personal precautions | Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be taken without appropriate training or involving any personal risk. Do not touch or walk into spilled material. | |
| Environmental precautions | | |
| Environmental precautions | Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment. | |
| Methods and material for conta | inment and cleaning up | |
| Methods for cleaning up | Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Small Spillages: Collect spillage. Large Spillages: Absorb spillage with non-combustible, absorbent material. The contaminated absorbent may pose the same hazard as the spilled material. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dangerous for the environment. Do not empty into drains. For waste disposal, see Section 13. | |
| Reference to other sections | For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13. | |
| 7. Handling and storage | | |
| Precautions for safe handling | | |
| Usage precautions | Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimize spills. Keep container tightly sealed when not in use. Avoid the formation of mists. Avoid discharge to the aquatic environment. | |
| Advice on general occupational hygiene | Wash promptly if skin becomes contaminated. Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse. | |
| Conditions for safe storage, inc | luding any incompatibilities | |
| Storage precautions | Store away from incompatible materials (see Section 10). Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage. | |
| Storage class | Miscellaneous hazardous material storage. | |
| Specific end uses(s) | | |
| Specific end use(s) | The identified uses for this product are detailed in Section 1. | |
| 8. Exposure controls/Personal protection | | |

Control parameters

Occupational exposure limits

Long-term exposure limit (8-hour TWA): ACGIH 5 mg/m³ inhalable fraction Long-term exposure limit (8-hour TWA): ACGIH 0.5 mg/m³ Antimony.

zinc oxide

Long-term exposure limit (8-hour TWA): OSHA 5 mg/m³ fume Long-term exposure limit (8-hour TWA): OSHA 15 mg/m³ total dust Long-term exposure limit (8-hour TWA): ACGIH 2 mg/m³ respirable fraction Short-term exposure limit (15-minute): ACGIH 10 mg/m³ respirable fraction Long-term exposure limit (8-hour TWA): OSHA 5 mg/m³ respirable fraction

Distillates (petroleum), hydrotreated heavy naphthenic

Mineral oil, excluding metal working fluids (pure, highly and severely refined) ACGIH

OSHA = Occupational Safety and Health Administration. ACGIH = American Conference of Governmental Industrial Hygienists.

zinc oxide (CAS: 1314-13-2)

Immediate danger to life 500 mg/m³ and health

Exposure controls

Protective equipment



| Appropriate engineering controls | Provide adequate ventilation. Observe any occupational exposure limits for the product or ingredients. |
|-------------------------------------|---|
| Eye/face protection | Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses. |
| Hand protection | No specific hand protection recommended. Avoid contact with skin. |
| Other skin and body protection | Wear appropriate clothing to prevent repeated or prolonged skin contact. |
| Hygiene measures | Wash after use and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product. |
| Respiratory protection | Ensure all respiratory protective equipment is suitable for its intended use and is NIOSH approved. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with OSHA 1910.134. Full face mask respirators with replaceable filter cartridges should comply with OSHA 1910.134. Half mask and quarter mask respirators with replaceable filter cartridges should comply with OSHA 1910.134. |
| Environmental exposure controls | Keep container tightly sealed when not in use. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. |

9. Physical and chemical properties

Information on basic physical and chemical properties

| Appearance | Grease. |
|----------------|----------------|
| Color | Off-white. |
| Odor | Mineral oil |
| Odor threshold | Not available. |
| рН | Not available. |

| Melting point | Not available. |
|---|---|
| Initial boiling point and range | >288°C/>550.4°F |
| Flash point | 260°C/500°F Cleveland open cup. |
| Evaporation rate | < 0.01 (butyl acetate = 1) |
| Flammability (solid, gas) | Not applicable. |
| Upper/lower flammability or explosive limits | Lower flammable/explosive limit: 0.9 % Upper flammable/explosive limit: 7 % |
| Vapor pressure | <0.0013 kPa @ 20°C |
| Vapor density | > 5 |
| Relative density | 0.96 |
| Solubility(ies) | Insoluble in water. |
| Partition coefficient | Not available. |
| Decomposition Temperature | Not available. |
| Explosive properties | Not considered to be explosive. |
| Oxidizing properties | Does not meet the criteria for classification as oxidizing. |
| 10. Stability and reactivity | |
| Reactivity | See the other subsections of this section for further details. |
| Stability | Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions. |
| Possibility of hazardous reactions | No potentially hazardous reactions known. |
| Conditions to avoid | Keep away from heat, sparks and open flame. |
| Materials to avoid | Oxidizing agents. Chlorine. |
| Hazardous decomposition products | Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors. |
| 11. Toxicological information | |
| Information on toxicological eff | rects |
| Acute toxicity - oral Notes (oral LD₅o) | Based on available data the classification criteria are not met. |
| | 16,666.67 |
| ATE oral (mg/kg) | 10,000.07 |
| Acute toxicity - dermal Notes (dermal LD ₅₀) | Based on available data the classification criteria are not met. |
| Acute toxicity - inhalation Notes (inhalation LC50) | Based on available data the classification criteria are not met. |
| ATE inhalation (vapours mg/l) | 366.67 |
| Skin corrosion/irritation | |

| Animal data | Based on available data the classification criteria are not met. |
|---|--|
| Serious eye damage/irritation Serious eye damage/irritation | Based on available data the classification criteria are not met. |
| Respiratory sensitization Respiratory sensitization | Based on available data the classification criteria are not met. |
| Skin sensitization Skin sensitization | May cause sensitization or allergic reactions in sensitive individuals. |
| Germ cell mutagenicity Genotoxicity - in vitro | Based on available data the classification criteria are not met. |
| Carcinogenicity Carcinogenicity | Based on available data the classification criteria are not met. |
| IARC carcinogenicity | None of the ingredients are listed or exempt. |
| Reproductive toxicity Reproductive toxicity - fertility | Based on available data the classification criteria are not met. |
| Reproductive toxicity - development | Based on available data the classification criteria are not met. |
| | |
| Specific target organ toxicity - | single exposure |
| Specific target organ toxicity - STOT - single exposure | single exposure Not classified as a specific target organ toxicant after a single exposure. |
| | Not classified as a specific target organ toxicant after a single exposure. |
| STOT - single exposure | Not classified as a specific target organ toxicant after a single exposure. |
| STOT - single exposure Specific target organ toxicity - | Not classified as a specific target organ toxicant after a single exposure. |
| STOT - single exposure Specific target organ toxicity - STOT - repeated exposure Aspiration hazard | Not classified as a specific target organ toxicant after a single exposure. repeated exposure Not classified as a specific target organ toxicant after repeated exposure. |
| STOT - single exposure Specific target organ toxicity - STOT - repeated exposure Aspiration hazard Aspiration hazard | Not classified as a specific target organ toxicant after a single exposure. repeated exposure Not classified as a specific target organ toxicant after repeated exposure. Based on available data the classification criteria are not met. The severity of the symptoms described will vary dependent on the concentration and the |
| STOT - single exposure Specific target organ toxicity - STOT - repeated exposure Aspiration hazard Aspiration hazard General information | Not classified as a specific target organ toxicant after a single exposure. repeated exposure Not classified as a specific target organ toxicant after repeated exposure. Based on available data the classification criteria are not met. The severity of the symptoms described will vary dependent on the concentration and the length of exposure. |
| STOT - single exposure Specific target organ toxicity - STOT - repeated exposure Aspiration hazard Aspiration hazard General information Inhalation | Not classified as a specific target organ toxicant after a single exposure. repeated exposure Not classified as a specific target organ toxicant after repeated exposure. Based on available data the classification criteria are not met. The severity of the symptoms described will vary dependent on the concentration and the length of exposure. No specific symptoms known. |
| STOT - single exposure Specific target organ toxicity - STOT - repeated exposure Aspiration hazard Aspiration hazard General information Inhalation Ingestion | Not classified as a specific target organ toxicant after a single exposure. repeated exposure Not classified as a specific target organ toxicant after repeated exposure. Based on available data the classification criteria are not met. The severity of the symptoms described will vary dependent on the concentration and the length of exposure. No specific symptoms known. No specific symptoms known. |
| STOT - single exposure Specific target organ toxicity - STOT - repeated exposure Aspiration hazard Aspiration hazard General information Inhalation Ingestion Skin Contact | Not classified as a specific target organ toxicant after a single exposure. repeated exposure Not classified as a specific target organ toxicant after repeated exposure. Based on available data the classification criteria are not met. The severity of the symptoms described will vary dependent on the concentration and the length of exposure. No specific symptoms known. No specific symptoms known. No specific symptoms known. No specific symptoms known. |
| STOT - single exposure Specific target organ toxicity - STOT - repeated exposure Aspiration hazard Aspiration hazard General information Inhalation Ingestion Skin Contact Eye contact | Not classified as a specific target organ toxicant after a single exposure. repeated exposure Not classified as a specific target organ toxicant after repeated exposure. Based on available data the classification criteria are not met. The severity of the symptoms described will vary dependent on the concentration and the length of exposure. No specific symptoms known. No specific symptoms known. |

Toxicological information on ingredients.

| Acute toxicity - oral | |
|-----------------------------|--|
| Notes (oral LD₅₀) | Based on available data the classification criteria are not met. |
| Acute toxicity - dermal | |
| Notes (dermal LD50) | Based on available data the classification criteria are not met. |
| Acute toxicity - inhalation | |

| Notes (inhalation LC ₅₀) | Based on available data the classification criteria are not met. | |
|--|---|--|
| Skin corrosion/irritation | | |
| Animal data | Based on available data the classification criteria are not met. | |
| Serious eye damage/irritati | on | |
| Serious eye damage/irritation | Based on available data the classification criteria are not met. | |
| Respiratory sensitization | | |
| Respiratory sensitization | Based on available data the classification criteria are not met. | |
| Skin sensitization | | |
| Skin sensitization | Based on available data the classification criteria are not met. | |
| Germ cell mutagenicity | | |
| Genotoxicity - in vitro | Based on available data the classification criteria are not met. | |
| Carcinogenicity | | |
| Carcinogenicity | Based on available data the classification criteria are not met. | |
| IARC carcinogenicity | None of the ingredients are listed or exempt. | |
| Reproductive toxicity | | |
| Reproductive toxicity - fertility | Based on available data the classification criteria are not met. | |
| Reproductive toxicity - development | Based on available data the classification criteria are not met. | |
| Specific target organ toxicit | y - single exposure | |
| STOT - single exposure | Not classified as a specific target organ toxicant after a single exposure. | |
| Specific target organ toxicit | y - repeated exposure | |
| STOT - repeated exposure | Not classified as a specific target organ toxicant after repeated exposure. | |
| Aspiration hazard | | |
| Aspiration hazard | Not relevant. Solid. | |
| | | |
| General information | The severity of the symptoms described will vary dependent on the concentration and the length of exposure. | |
| Inhalation | No specific symptoms known. | |
| Ingestion | No specific symptoms known. | |
| Skin Contact | Prolonged contact may cause dryness of the skin. | |
| Eye contact | No specific symptoms known. | |
| Route of exposure | Ingestion Inhalation Skin and/or eye contact | |
| Target Organs | No specific target organs known. | |
| Zinc bis(dibutyldithiocarbamate) | | |

Acute toxicity - oral

| Notes (oral LD ₅₀) | Based on available data the classification criteria are not met. | |
|--|--|--|
| Acute toxicity - dermal | | |
| Notes (dermal LD₅₀) | Based on available data the classification criteria are not met. | |
| Acute toxicity - inhalation | | |
| Notes (inhalation LC₅₀) | Based on available data the classification criteria are not met. | |
| Skin corrosion/irritation | | |
| Animal data | Irritating. | |
| Serious eye damage/irritation | | |
| Serious eye damage/irritation | Causes serious eye irritation. | |
| Respiratory sensitization | | |
| Respiratory sensitization | Based on available data the classification criteria are not met. | |
| Skin sensitization | | |
| Skin sensitization | May cause skin sensitization or allergic reactions in sensitive individuals. | |
| Germ cell mutagenicity | | |
| Genotoxicity - in vitro | Based on available data the classification criteria are not met. | |
| Carcinogenicity | | |
| Carcinogenicity | Based on available data the classification criteria are not met. | |
| IARC carcinogenicity | None of the ingredients are listed or exempt. | |
| Reproductive toxicity | | |
| Reproductive toxicity - fertility | Based on available data the classification criteria are not met. | |
| Reproductive toxicity - development | Based on available data the classification criteria are not met. | |
| Specific target organ toxicit | y - single exposure | |
| STOT - single exposure | STOT SE 3 - H335 May cause respiratory irritation. | |
| Target organs | Respiratory system, lungs | |
| Specific target organ toxicity - repeated exposure | | |
| STOT - repeated exposure | Not classified as a specific target organ toxicant after repeated exposure. | |
| Aspiration hazard | | |
| Aspiration hazard | Not relevant. Solid. | |
| General information | The severity of the symptoms described will vary dependent on the concentration and the length of exposure. | |
| Inhalation | A single exposure may cause the following adverse effects: Irritation of nose, throat and airway. Difficulty in breathing. Coughing. | |
| Ingestion | May cause sensitization or allergic reactions in sensitive individuals. May cause irritation. | |

| Skin Contact | May cause skin sensitization or allergic reactions in sensitive individuals. Redness. Irritating to skin. | |
|--|--|--|
| Eye contact | Irritating to eyes. | |
| Route of exposure | Ingestion Inhalation Skin and/or eye contact | |
| Target Organs | Respiratory system, lungs | |
| Medical considerations | Skin disorders and allergies. | |
| | Amine neutralized dinonylnaphthalene sulfonic acid | |
| Acute toxicity - oral | | |
| Notes (oral LD₅₀) | Based on available data the classification criteria are not met. | |
| Acute toxicity - dermal | | |
| Notes (dermal LD ₅₀) | Based on available data the classification criteria are not met. | |
| Acute toxicity - inhalation | | |
| Notes (inhalation LC₅₀) | Based on available data the classification criteria are not met. | |
| Skin corrosion/irritation | | |
| Animal data | Irritating. | |
| Serious eye damage/irritat | ion | |
| Serious eye damage/irritation | Causes serious eye irritation. | |
| Respiratory sensitization | | |
| Respiratory sensitization | Based on available data the classification criteria are not met. | |
| Skin sensitization | | |
| Skin sensitization | Based on available data the classification criteria are not met. | |
| Germ cell mutagenicity | | |
| Genotoxicity - in vitro | Based on available data the classification criteria are not met. | |
| Carcinogenicity | | |
| Carcinogenicity | Based on available data the classification criteria are not met. | |
| IARC carcinogenicity | None of the ingredients are listed or exempt. | |
| Reproductive toxicity | | |
| Reproductive toxicity - fertility | Based on available data the classification criteria are not met. | |
| Reproductive toxicity - development | Based on available data the classification criteria are not met. | |
| Specific target organ toxicity - single exposure | | |
| STOT - single exposure | Not classified as a specific target organ toxicant after a single exposure. | |
| Specific target organ toxicity - repeated exposure | | |
| STOT - repeated exposure | Not classified as a specific target organ toxicant after repeated exposure. | |

Aspiration hazard

| Aspiration hazard | Based on available data the classification criteria are not met. | |
|---------------------|---|--|
| General information | The severity of the symptoms described will vary dependent on the concentration and the length of exposure. | |
| Inhalation | No specific symptoms known. | |
| Ingestion | May cause irritation. | |
| Skin Contact | Redness. Irritating to skin. | |
| Eye contact | Irritating to eyes. | |
| Route of exposure | Ingestion Inhalation Skin and/or eye contact | |
| Target Organs | No specific target organs known. | |

| 12. Ecological information | | |
|--|-------------------------------|---|
| 12. 2001091 | | |
| Toxicity | | Aquatic Chronic 2 - H411 Toxic to aquatic life with long lasting effects. |
| Ecological | information on ingr | edients. |
| | | zinc oxide |
| | Toxicity | Aquatic Acute 1 - H400 Very toxic to aquatic life. Aquatic Chronic 1 - H410 Very toxic to aquatic life with long lasting effects. |
| | Acute aquatic to | xicity |
| | LE(C)50 | $0.1 < L(E)C50 \le 1$ |
| | M factor (Acute) | 1 |
| | Chronic aquatic | toxicity |
| | M factor (Chronie | c) 1 |
| | | Zinc bis(dibutyldithiocarbamate) |
| | Toxicity | Aquatic Acute 1 - H400 Very toxic to aquatic life. Aquatic Chronic 1 - H410 Very toxic to aquatic life with long lasting effects. |
| | Acute aquatic to | xicity |
| | LE(C)50 | $0.1 < L(E)C50 \le 1$ |
| | M factor (Acute) | 1 |
| | Chronic aquatic | toxicity |
| | NOEC | 0.001 < NOEC ≤ 0.01 |
| | Degradability | Non-rapidly degradable |
| | M factor (Chronie | c) 10 |
| Persistence | e and degradability | |
| Persistence | e and degradability | The degradability of the product is not known. |
| Ecological | information on ingr | edients. |
| | | zinc oxide |
| | Persistence and degradability | The degradability of the product is not known. |
| | | Zinc bis(dibutyldithiocarbamate) |
| | Persistence and degradability | The degradability of the product is not known. |
| Bioaccumu | lative potential | |
| Bio-Accum | ulative Potential | No data available on bioaccumulation. |
| Partition co | efficient | Not available. |
| Ecological information on ingredients. | | |
| | | |

Bio-Accumulative Potential No data available on bioaccumulation.

Zinc bis(dibutyldithiocarbamate)

Bio-Accumulative Potential No data available on bioaccumulation.

Mobility in soil

Mobility No data available.

Ecological information on ingredients.

| | zinc oxide | |
|---|--|--|
| Mobility | No data available. | |
| | Zinc bis(dibutyldithiocarbamate) | |
| Mobility | No data available. | |
| Other adverse effects | | |
| Other adverse effects | None known. | |
| Ecological information on ingre | edients. | |
| | zinc oxide | |
| Other adverse ef | fects None known. | |
| | Zinc bis(dibutyldithiocarbamate) | |
| Other adverse ef | fects None known. | |
| 13. Disposal considerations | | |
| Waste treatment methods | | |
| General information | The generation of waste should be minimized or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous. | |
| Disposal methods | Do not empty into drains. | |
| 14. Transport information | | |
| DOT transport notes | This product is not regulated for road transportation in accordance with 49 CFR Exceptions. | |
| UN Number | | |
| UN No. (TDG) | 3077 | |
| UN No. (IMDG) | 3077 | |
| UN No. (ICAO) | 3077 | |
| UN No. (DOT) | Not applicable. | |
| UN proper shipping name Proper shipping name (TDG) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. | |

| Proper shipping name (IMDG) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. |
|-----------------------------|--|
| Proper shipping name (ICAO) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. |
| Proper shipping name (DOT) | Not applicable. |
| Transport hazard class(es) | |

| TDG class | 9 |
|---------------------|---|
| TDG label(s) | 9 |
| IMDG Class | 9 |
| ICAO class/division | 9 |

Transport labels



DOT transport labels

No transport warning sign required.

| Packing group | |
|--------------------|-----------------|
| TDG Packing Group | Ш |
| IMDG packing group | III |
| ICAO packing group | III |
| DOT packing group | Not applicable. |

Environmental hazards

Environmentally Hazardous Substance



Special precautions for user

Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

| EmS | F-A, S-F |
|-------------------------|-----------------|
| DOT reportable quantity | Not applicable. |
| DOT TIH Zone | Not applicable. |

15. Regulatory information

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities None of the ingredients are listed or exempt.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA) None of the ingredients are listed or exempt.

SARA Extremely Hazardous Substances EPCRA Reportable Quantities

None of the ingredients are listed or exempt.

SARA 313 Emission Reporting

The following ingredients are listed or exempt: Antimony tris[O,O-dipropyl] tris(dithiophosphate) 1.0 % Zinc bis(dibutyldithiocarbamate) 1.0 % zinc oxide 1.0 %

CAA Accidental Release Prevention None of the ingredients are listed or exempt.

FDA - Essential Chemical None of the ingredients are listed or exempt.

FDA - Precursor Chemical None of the ingredients are listed or exempt.

SARA (311/312) Hazard Categories None of the ingredients are listed or exempt.

OSHA Highly Hazardous Chemicals None of the ingredients are listed or exempt.

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins None of the ingredients are listed or exempt.

California Air Toxics "Hot Spots" (A-I)

The following ingredients are listed or exempt:

zinc oxide

California Air Toxics "Hot Spots" (A-II) None of the ingredients are listed or exempt.

California Directors List of Hazardous Substances

The following ingredients are listed or exempt:

zinc oxide

Massachusetts "Right To Know" List

The following ingredients are listed or exempt:

zinc oxide

Distillates (petroleum), hydrotreated light paraffinic

Rhode Island "Right To Know" List

The following ingredients are listed or exempt:

zinc oxide

Minnesota "Right To Know" List

The following ingredients are listed or exempt:

New Jersey "Right To Know" List

The following ingredients are listed or exempt:

zinc oxide

Pennsylvania "Right To Know" List

The following ingredients are listed or exempt:

zinc oxide

Inventories

US - TSCA All the ingredients are listed or exempt.

Distillates (petroleum), hydrotreated heavy paraffinic

Distillates (petroleum), hydrotreated heavy paraffinic

Polybutene

Antimony tris[O,O-dipropyl] tris(dithiophosphate)

Distillates (petroleum), hydrotreated heavy naphthenic

Alkyl dithio thiadiazole

Zinc bis(dibutyldithiocarbamate)

Lithium, 12-hydroxyoctadecanoate sebacate complexes

zinc oxide

Petroleum oil

Polyisobutylene

Amine neutralized dinonylnaphthalene sulfonic acid

Distillates (petroleum), hydrotreated light paraffinic

US - TSCA 12(b) Export Notification

None of the ingredients are listed or exempt.

16. Other information

| Classification abbreviations and acronyms | Aquatic Chronic = Hazardous to the aquatic environment (chronic) |
|---|--|
| Training advice | Only trained personnel should use this material. |
| Revision date | 7/26/2018 |
| SDS No. | 5031 |
| Hazard statements in full | H227 Combustible liquid. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H400 Very toxic to aquatic life. H401 Toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. |

End of SDS

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.