# SAFETY DATA SHEET
# SYNXTREME HD-1/220

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

## 1. Identification

### Product identifier

**Product name** SYNXTREME HD-1/220

**Product number** L0313-098, L0313-231, L0313-412, L0313-425, L0313-460, L0313-525, L0313-612, L0313-625, L0313-756, L0313-801, L0313-811, L0313-035, L0313-040B, L0313-040, L0313-039

### Recommended use of the chemical and restrictions on use

**Application** Lubricating grease.

**Uses advised against** No specific uses advised against are identified.

### Details of the supplier of the 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

**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 substance or mixture

**Physical hazards** Not Classified

**Health hazards** Not Classified

**Environmental hazards** Aquatic Acute 3 - H402 Aquatic Chronic 3 - H412

### Label elements

**Hazard statements** H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements** P273 Avoid release to the environment.
P501 Dispose of contents/ container in accordance with national regulations.

### Other hazards

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

## 3. Composition/information on ingredients

### Mixtures

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| | |
|---|---|
| **zinc oxide** | **1-5%** |
| CAS number: 1314-13-2 | |
| M factor (Acute) = 1 | M factor (Chronic) = 1 |

**Classification**
Aquatic Acute 1 - H400
Aquatic Chronic 1 - H410

The full text for all hazard statements is displayed in Section 16.

## 4. First-aid measures

### Description of first aid measures

**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** Prolonged contact may cause dryness of the skin.

**Eye contact** No specific symptoms known. May be slightly irritating to eyes.

### Indication of immediate medical 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 the substance or mixture

**Specific hazards** None known.

**Hazardous combustion products** Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors.

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### 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. 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 containment 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. Collect spillage with a shovel and broom, or similar and reuse, if possible. Collect and place in suitable waste disposal containers and seal securely. 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. Keep container tightly sealed when not in use. 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, including 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

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## Occupational exposure limits

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

**zinc oxide (CAS: 1314-13-2)**

| | |
|---|---|
| **Immediate danger to life and health** | 500 mg/m³ |

## 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** | Solid. Grease. |
| **Color** | Off-white. |
| **Odor** | Mineral oil |
| **Odor threshold** | Not available. |
| **pH** | Not available. |
| **Melting point** | Not available. |

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| | |
|---|---|
| **Initial boiling point and range** | >288°C (>550.4°F) |
| **Flash point** | > 232°C/449.6°F Method: Cleveland open cup. |
| **Evaporation rate** | < 0.01 (butyl acetate = 1) |
| **Evaporation factor** | Not available. |
| **Flammability (solid, gas)** | Not available. |
| **Upper/lower flammability or explosive limits** | Lower flammable/explosive limit: 0.9 % Upper flammable/explosive limit: 7 % |
| **Vapor pressure** | Not available. |
| **Vapor density** | Not available. |
| **Relative density** | 0.96 |
| **Bulk density** | Not available. |
| **Solubility(ies)** | Insoluble in water. |
| **Partition coefficient** | Not available. |
| **Auto-ignition temperature** | Not available. |
| **Decomposition Temperature** | Not available. |
| **Viscosity** | 198 to 242 cSt @ 40°C/104°F |
| **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** | There are no known conditions that are likely to result in a hazardous situation. |
| **Materials to avoid** | No specific material or group of materials is likely to react with the product to produce a hazardous situation. |
| **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 effects

**Acute toxicity - oral**

**Notes (oral $LD_{50}$)** 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**

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| | |
|---|---|
| **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/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** | 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** | 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. |

**Toxicological information on ingredients.**

**Benzoic acid**

**Acute toxicity - oral**

| | |
|---|---|
| **Notes (oral $LD_{50}$)** | Based on available data the classification criteria are not met. |

**Acute toxicity - dermal**

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| | |
|---|---|
| **Notes (dermal $LD_{50}$)** | 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** | Irritating. |
| **Serious eye damage/irritation** | |
| **Serious eye damage/irritation** | Eye Dam. 1 - H318 Causes serious eye damage. |
| **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** | STOT RE 1 - H372 |
| **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** | May cause irritation. |
| **Skin Contact** | Redness. Irritating to skin. |
| **Eye contact** | Causes serious eye damage. Symptoms following overexposure may include the following: Pain. Profuse watering of the eyes. Redness. |
| **Route of exposure** | Ingestion Inhalation Skin and/or eye contact |
| **Target Organs** | No specific target organs known. |

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## 12. Ecological information

**Toxicity** Aquatic Chronic 3 - H412 Harmful to aquatic life with long lasting effects.

**Ecological information on ingredients.**

**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 toxicity** | |
| **LE(C)$_{50}$** | 0.1 < L(E)C50 ≤ 1 |
| **M factor (Acute)** | 1 |
| **Chronic aquatic toxicity** | |
| **M factor (Chronic)** | 1 |

**Persistence and degradability**

**Persistence and degradability** The degradability of the product is not known.

**Ecological information on ingredients.**

**zinc oxide**

| | |
|---|---|
| **Persistence and degradability** | The degradability of the product is not known. |

**Bioaccumulative potential**

**Bio-Accumulative Potential** No data available on bioaccumulation.

**Partition coefficient** Not available.

**Ecological information on ingredients.**

**zinc oxide**

| | |
|---|---|
| **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. |

**Other adverse effects**

**Other adverse effects** None known.

**Ecological information on ingredients.**

**zinc oxide**

| | |
|---|---|
| **Other adverse effects** | None known. |

## 13. Disposal considerations

**Waste treatment methods**

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| | |
|---|---|
| **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

| | |
|---|---|
| **General** | The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT). |

### UN Number

| | |
|---|---|
| **UN No. (International)** | Not applicable. |
| **UN No. (DOT)** | Not applicable. |

### UN proper shipping name

| | |
|---|---|
| **Proper shipping name (International)** | Not applicable. |
| **Proper shipping name (DOT)** | Not applicable. |

### Transport hazard class(es)

| | |
|---|---|
| **Transport Labels (International)** | No transport warning sign required. |

**DOT transport labels**
No transport warning sign required.

### Packing group

| | |
|---|---|
| **Packing group (International)** | Not applicable. |
| **DOT packing group** | Not applicable. |

### Environmental hazards

**Environmentally Hazardous Substance**
No.

### Special precautions for user

Not applicable.

| | |
|---|---|
| **DOT reportable quantity** | Not applicable. |
| **DOT TIH Zone** | Not applicable. |
| **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** | 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.

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**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:

*Dec-1-ene, homopolymer, hydrogenated.dec-1-ene, oligomers, hydrogenated*
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*

**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:

*zinc oxide*

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**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.

**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** | 9/4/2018 |
| **SDS No.** | 5035 |
| **Hazard statements in full** | H400 Very toxic to aquatic life.<br>H402 Harmful to aquatic life.<br>H410 Very toxic to aquatic life with long lasting effects.<br>H411 Toxic to aquatic life with long lasting effects.<br>H412 Harmful 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.