# SAFETY DATA SHEET
## Gear Shield Extra Heavy
According to Appendix D, OSHA Hazard Communication Standard 29 CFR §1910.1200

## 1. Identification

### Product identifier

**Product name** Gear Shield Extra Heavy

**Product number** L0152-000, L0152-035, L0152-035P, L0152-039, L0152-040, L0152-040B

### 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

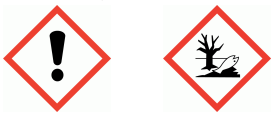
**Physical hazards** Not Classified

**Health hazards** Skin Irrit. 2 - H315

**Environmental hazards** Aquatic Acute 2 - H401 Aquatic Chronic 2 - H411

### Label elements

**Hazard symbols**



**Signal word** Warning

**Hazard statements** H315 Causes skin irritation.
H411 Toxic to aquatic life with long lasting effects.

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**Precautionary statements**

P264 Wash contaminated skin thoroughly after handling.
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).
P332+P313 If skin irritation 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.

### Other hazards

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

## 3. Composition/information on ingredients

### Mixtures

**Distillates (petroleum), hydrotreated heavy naphthenic** **10-30%**

CAS number: 64742-52-5

**Classification**
Not Classified

**Residual oils (petroleum,) solvent-refined** **10-30%**

CAS number: 64742-01-4

**Classification**
Skin Irrit. 2 - H315

**zinc oxide** **5-10%**

CAS number: 1314-13-2

M factor (Acute) = 1 M factor (Chronic) = 1

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

**Carbon black** **1-5%**

CAS number: 1333-86-4

**Classification**
Not Classified

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

**Composition comments** * The exact percentage withheld as a trade secret in accordance with 29 CFR 1910.1200.

## 4. First-aid measures

### Description of first aid measures

**General information** Get medical attention immediately. Show this Safety Data Sheet to the medical personnel.

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**Inhalation** Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Place unconscious person on their side in the recovery position and ensure breathing can take place.

**Ingestion** Rinse mouth thoroughly with water. Remove any dentures. Give a few small glasses of water or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Place unconscious person on their side in the recovery position and ensure breathing can take place. Maintain an open airway. Loosen tight clothing such as collar, tie or belt.

**Skin Contact** Rinse with water.

**Eye contact** Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 10 minutes.

**Protection of first aiders** First aid personnel should wear appropriate protective equipment during any rescue. Wash contaminated clothing thoroughly with water before removing it from the affected person, or wear gloves. It may be dangerous for first aid personnel to carry out mouth-to-mouth resuscitation.

### Most important symptoms and effects, both acute and delayed

**General information** See Section 11 for additional information on health hazards. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

**Inhalation** Prolonged or repeated exposure may cause the following adverse effects: Suspected of causing cancer.

**Ingestion** May cause irritation. Prolonged or repeated exposure may cause the following adverse effects: Suspected of causing cancer.

**Skin contact** Redness. Irritating to skin. Prolonged or repeated exposure may cause the following adverse effects: Suspected of causing cancer.

**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.

### Advice for firefighters

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**Protective actions during firefighting**

Avoid breathing fire gases or vapors. Evacuate area. Keep upwind to avoid inhalation of gases, vapors, fumes and smoke. Ventilate closed spaces before entering them. 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**

No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Wash thoroughly after dealing with a spillage. Ensure procedures and training for emergency decontamination and disposal are in place. 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. Large Spillages: Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).

### 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. Approach the spillage from upwind. 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. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

**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. Suspected of causing cancer. Avoid discharge to the aquatic environment. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.

**Advice on general occupational hygiene**

Wash promptly if skin becomes contaminated. Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Change work clothing daily before leaving workplace.

### Conditions for safe storage, including any incompatibilities

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**Storage precautions** Store away from incompatible materials (see Section 10). Store in accordance with local regulations. Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage. Utilize retaining walls to prevent soil and water pollution in the event of spillage. The storage area floor should be leak-tight, jointless and not absorbent.

**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**

**Distillates (petroleum), hydrotreated heavy naphthenic**

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

**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

**Carbon black**

Long-term exposure limit (8-hour TWA): ACGIH 3 mg/m³ inhalable fraction
A3
Long-term exposure limit (8-hour TWA): OSHA 3.5 mg/m³

OSHA = Occupational Safety and Health Administration.
ACGIH = American Conference of Governmental Industrial Hygienists.
A3 = Confirmed Animal Carcinogen with Unknown Relevance to Humans.

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

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

**Carbon black (CAS: 1333-86-4)**

| | |
|---|---|
| **Immediate danger to life and health** | 1750 mg/m³ |

**Exposure controls**

**Protective equipment**

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| | |
|---|---|
| **Appropriate engineering controls** | Provide adequate ventilation. Personal, workplace environment or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Use process enclosures, local exhaust ventilation or other engineering controls as the primary means to minimize worker exposure. Personal protective equipment should only be used if worker exposure cannot be controlled adequately by the engineering control measures. Ensure control measures are regularly inspected and maintained. Ensure operatives are trained to minimize exposure. |
| **Eye/face protection** | Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with OSHA 1910.133. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses. |
| **Hand protection** | Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with OSHA 1910.138 and be demonstrated to be impervious to the chemical and resist degradation. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended. |
| **Other skin and body protection** | Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible. |
| **Hygiene measures** | Provide eyewash station and safety shower. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Clean equipment and the work area every day. Good personal hygiene procedures should be implemented. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke. Preventive industrial medical examinations should be carried out. Warn cleaning personnel of any hazardous properties of the product. |
| **Respiratory protection** | Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. 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. |
| **Color** | Black. |
| **Odor** | Mild. |
| **Odor threshold** | Not available. |
| **pH** | Not available. |
| **Melting point** | Not available. |
| **Initial boiling point and range** | Not available. |

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| | |
|---|---|
| **Flash point** | > 204°C/399.2°F Cleveland open cup. |
| **Evaporation rate** | Not available. |
| **Upper/lower flammability or explosive limits** | Not available. |
| **Vapor pressure** | Not available. |
| **Vapor density** | Not available. |
| **Relative density** | 0.98 |
| **Solubility(ies)** | Insoluble in water. |
| **Partition coefficient** | Not available. |
| **Auto-ignition temperature** | Not available. |
| **Decomposition Temperature** | Not available. |
| **Viscosity** | Not available. |
| **Explosive properties** | Not applicable. |
| **Oxidizing properties** | Not available. |
| **Other information** | None. |

## 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**

**Notes (inhalation $LC_{50}$)** Based on available data the classification criteria are not met.

**Skin corrosion/irritation**

**Animal data** Irritating.

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**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** Suspected of causing cancer.

**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** May cause cancer after repeated exposure. Risk of cancer depends on duration and level of exposure. 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** No specific symptoms known.

**Route of exposure** Ingestion Inhalation Skin and/or eye contact

**Target Organs** No specific target organs known.

## 12. Ecological information

**Toxicity** Aquatic Chronic 2 - H411 Toxic to aquatic life with long lasting effects.

**Persistence and degradability**

**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.

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### Mobility in soil

**Mobility** No data available.

### Other adverse effects

**Other adverse effects** 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. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. 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. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labeled with their contents. Incineration or landfill should only be considered when recycling is not feasible.

## 14. Transport information

**General** For limited quantity packaging/limited load information, consult the relevant modal documentation using the data shown in this section.

**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. (CONTAINS zinc oxide)

**Proper shipping name (IMDG)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS zinc oxide)

**Proper shipping name (ICAO)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS zinc oxide)

**Proper shipping name (DOT)** Not applicable.

### Transport hazard class(es)

**TDG class** 9

**TDG label(s)** 9

**IMDG Class** 9

**ICAO class/division** 9

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**Transport labels**


**DOT transport labels**

No transport warning sign required.

**Packing group**

| | |
|---|---|
| **TDG Packing Group** | III |
| **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. |
| **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.

**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:

*Residues (petroleum), atm. tower*

0 %

*zinc oxide*

1.0 %

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**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*

*Carbon black*

**Massachusetts "Right To Know" List**
The following ingredients are listed or exempt:

*zinc oxide*

*Carbon black*

**Rhode Island "Right To Know" List**
The following ingredients are listed or exempt:

*zinc oxide*

*Carbon black*

**Minnesota "Right To Know" List**
The following ingredients are listed or exempt:

*zinc oxide*

*Carbon black*

**New Jersey "Right To Know" List**
The following ingredients are listed or exempt:

*Asphalt, oxidized*

*zinc oxide*

*Carbon black*

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**Pennsylvania "Right To Know" List**

The following ingredients are listed or exempt:

*zinc oxide*

*Carbon black*

**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

| | |
|---|---|
| **Abbreviations and acronyms used in the safety data sheet** | TDG: The transport of dangerous goods act<br><br>IATA: International air transport association.<br>ICAO: Technical instructions for the safe transport of dangerous goods by air.<br>IMDG: International maritime dangerous goods.<br>CAS: Chemical abstracts service.<br>ATE: Acute toxicity estimate.<br>$LC_{50}$: Lethal concentration to 50 % of a test population.<br>$LD_{50}$: Lethal dose to 50% of a test population (median lethal dose).<br>$EC_{50}$: 50% of maximal effective concentration.<br>PBT: Persistent, bioaccumulative and toxic substance.<br>vPvB: Very persistent and very bioaccumulative. |
| **Classification abbreviations and acronyms** | Carc. = Carcinogenicity<br>Skin Irrit. = Skin irritation<br>Aquatic Chronic = Hazardous to the aquatic environment (chronic) |
| **Training advice** | Read and follow manufacturer's recommendations. Only trained personnel should use this material. |
| **Revision comments** | Revised classification. |
| **Revision date** | 7/21/2021 |
| **Revision** | 4 |
| **Supersedes date** | 3/16/2020 |
| **SDS No.** | 4734 |
| **Hazard statements in full** | H315 Causes skin irritation.<br>H400 Very toxic to aquatic life.<br>H401 Toxic to aquatic life.<br>H410 Very toxic to aquatic life with long lasting effects.<br>H411 Toxic to aquatic life with long lasting effects. |

**End of SDS**