



## SAFETY DATA SHEET

### Gear Shield Extra Heavy - Aerosol

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

#### 1. Identification

##### Product identifier

Product name Gear Shield Extra Heavy - Aerosol

Product number L0152-063

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

Application Petroleum 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  
800-733-4755  
800-347-5329

##### 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 Flam. Aerosol 1 - H222 Press. Gas, Compressed - H280

Health hazards Asp. Tox. 1 - H304

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

##### Label elements

##### Pictogram



Signal word

Danger

##### Hazard statements

H222 Extremely flammable aerosol.  
H280 Contains gas under pressure; may explode if heated.  
H304 May be fatal if swallowed and enters airways.  
H412 Harmful to aquatic life with long lasting effects.



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<b>Carbon black</b> CAS number: 1333-86-4	<b>1-5%</b>
<b>Classification</b> Not Classified	

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

## 4. First-aid measures

### Description of first aid measures

<b>General information</b>	If in doubt, get medical attention promptly. Show this Safety Data Sheet to the medical personnel.
<b>Inhalation</b>	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.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Get medical advice/attention if you feel unwell. Do not induce vomiting unless under the direction of medical personnel.
<b>Skin Contact</b>	Rinse with water.
<b>Eye contact</b>	Remove any contact lenses and open eyelids wide apart. Rinse with water. Get medical attention if any discomfort continues.
<b>Protection of first aiders</b>	First aid personnel should wear appropriate protective equipment during any rescue.

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

<b>General information</b>	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
<b>Inhalation</b>	Spray/mists may cause respiratory tract irritation.
<b>Ingestion</b>	Due to the physical nature of this product, it is unlikely that ingestion will occur.
<b>Skin contact</b>	Repeated exposure may cause skin dryness or cracking.
<b>Eye contact</b>	May be slightly irritating to eyes. May cause discomfort.

### Indication of immediate medical attention and special treatment needed

<b>Notes for the doctor</b>	Treat symptomatically.
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## 5. Fire-fighting measures

### Extinguishing media

<b>Suitable extinguishing media</b>	The product is flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.

### Special hazards arising from the substance or mixture

<b>Specific hazards</b>	Containers can burst violently or explode when heated, due to excessive pressure build-up. Bursting aerosol containers may be propelled from a fire at high speed. If aerosol cans are ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. Vapors may form explosive mixtures with air.
<b>Hazardous combustion products</b>	Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors.
<b><u>Advice for firefighters</u></b>	

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<b>Protective actions during firefighting</b>	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.
<b>Special protective equipment for firefighters</b>	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

<b>Personal precautions</b>	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. Evacuate area. Risk of explosion. Provide adequate ventilation. No smoking, sparks, flames or other sources of ignition near spillage. Promptly remove any clothing that becomes contaminated.
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### Environmental precautions

<b>Environmental precautions</b>	Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment.
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### Methods and material for containment and cleaning up

<b>Methods for cleaning up</b>	Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Eliminate all ignition sources if safe to do so. No smoking, sparks, flames or other sources of ignition near spillage. Under normal conditions of handling and storage, spillages from aerosol containers are unlikely. If aerosol cans are ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. Small Spillages: Wipe up with an absorbent cloth and dispose of waste safely. Large Spillages: If the product is soluble in water, dilute the spillage with water and mop it up. Alternatively, or if it is not water-soluble, absorb the spillage with an inert, dry material and place it in a suitable waste disposal container. 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.
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<b>Reference to other sections</b>	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.
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## 7. Handling and storage

### Precautions for safe handling

<b>Usage precautions</b>	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. Avoid exposing aerosol containers to high temperatures or direct sunlight. The product is flammable. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid discharge to the aquatic environment. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Spray will evaporate and cool rapidly and may cause frostbite or cold burns if in contact with skin. Avoid contact with eyes. Avoid inhalation of vapors and spray/mists.
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<b>Advice on general occupational hygiene</b>	Wash promptly if skin becomes contaminated. Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse.
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### Conditions for safe storage, including any incompatibilities

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**Storage precautions** Store away from incompatible materials (see Section 10). Keep away from oxidizing materials, heat and flames. Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage. Protect from sunlight. Do not store near heat sources or expose to high temperatures. Do not expose to temperatures exceeding 50°C/122°F.

**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/m<sup>3</sup> fume  
Long-term exposure limit (8-hour TWA): OSHA 15 mg/m<sup>3</sup> total dust  
Long-term exposure limit (8-hour TWA): ACGIH 2 mg/m<sup>3</sup> respirable fraction  
Short-term exposure limit (15-minute): ACGIH 10 mg/m<sup>3</sup> respirable fraction  
Long-term exposure limit (8-hour TWA): OSHA 5 mg/m<sup>3</sup> respirable fraction

**Carbon black**

Long-term exposure limit (8-hour TWA): ACGIH 3 mg/m<sup>3</sup> inhalable fraction  
A3

Long-term exposure limit (8-hour TWA): OSHA 3.5 mg/m<sup>3</sup>

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/m<sup>3</sup>

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

**Immediate danger to life and health** 1750 mg/m<sup>3</sup>

**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.

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<b>Hygiene measures</b>	Wash after use and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.
<b>Respiratory protection</b>	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.
<b>Environmental exposure controls</b>	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

<b>Appearance</b>	Aerosol.
<b>Color</b>	Black. Grey.
<b>Odor</b>	Solvent.
<b>Odor threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Melting point</b>	Not available.
<b>Initial boiling point and range</b>	Not available.
<b>Flash point</b>	-18°C/-0.4°F Cleveland open cup.
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	Lower flammable/explosive limit: 0.9 % Upper flammable/explosive limit: 7 %
<b>Vapor pressure</b>	115 psig @ 54°C
<b>Vapor density</b>	> 1
<b>Relative density</b>	0.98
<b>Solubility(ies)</b>	Insoluble in water.
<b>Partition coefficient</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition Temperature</b>	Not available.
<b>Viscosity</b>	31 cSt @ 100°C/212°F
<b>Explosive properties</b>	Not considered to be explosive.
<b>Oxidizing properties</b>	Does not meet the criteria for classification as oxidizing.

## 10. Stability and reactivity

<b>Reactivity</b>	See the other subsections of this section for further details.
<b>Stability</b>	Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.

# Gear Shield Extra Heavy - Aerosol

<b>Possibility of hazardous reactions</b>	No potentially hazardous reactions known.
<b>Conditions to avoid</b>	Avoid heat, flames and other sources of ignition.
<b>Materials to avoid</b>	Oxidizing materials. Chlorine.
<b>Hazardous decomposition products</b>	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<sub>50</sub>)** Based on available data the classification criteria are not met.

#### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** Based on available data the classification criteria are not met.

#### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** 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**

Contains a substance which has been shown to cause cancer in laboratory animals. IARC Group 2A Probably carcinogenic to humans.

#### 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** May be fatal if swallowed and enters airways.

#### **General information**

The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

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<b>Inhalation</b>	Spray/mists may cause respiratory tract irritation.
<b>Ingestion</b>	Due to the physical nature of this product, it is unlikely that ingestion will occur.
<b>Skin Contact</b>	Repeated exposure may cause skin dryness or cracking.
<b>Eye contact</b>	May be slightly irritating to eyes. May cause discomfort.
<b>Route of exposure</b>	Ingestion Inhalation Skin and/or eye contact
<b>Target Organs</b>	No specific target organs known.

## 12. Ecological Information

**Toxicity** Aquatic Acute 3 - H402 Aquatic Chronic 3 - H412 Harmful 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.

### Mobility in soil

**Mobility** The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces.

### 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. 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. Empty containers must not be punctured or incinerated because of the risk of an explosion. 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.

## 14. Transport information

### UN Number

**UN No. (TDG)** 1950

**UN No. (IMDG)** 1950

**UN No. (ICAO)** 1950

**UN No. (DOT)** UN1950

### UN proper shipping name

**Proper shipping name (TDG)** AEROSOLS

**Proper shipping name (IMDG)** AEROSOLS

# Gear Shield Extra Heavy - Aerosol

Proper shipping name (ICAO) AEROSOLS

Proper shipping name (DOT) AEROSOLS

## Transport hazard class(es)

DOT hazard class 2.1

DOT hazard label 2.1

TDG class 2.1

TDG label(s) 2.1

IMDG Class 2.1

ICAO class/division 2.1

## Transport labels



## DOT transport labels



## Environmental hazards

### Environmentally Hazardous Substance

No.

## Special precautions for user

EmS F-D, S-U

## 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 %

#### CAA Accidental Release Prevention

None of the ingredients are listed or exempt.

#### FDA - Essential Chemical

None of the ingredients are listed or exempt.

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## **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**

The following ingredients are listed or exempt:

*Carbon black*

Known to the State of California to cause cancer.

### **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*

*Lithium hydroxide monohydrate*

### **New Jersey "Right To Know" List**

The following ingredients are listed or exempt:

*Asphalt, oxidized*

*zinc oxide*

*Carbon black*

*Lithium hydroxide monohydrate*

### **Pennsylvania "Right To Know" List**

The following ingredients are listed or exempt:

*zinc oxide*

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Carbon black

## Inventories

### US - TSCA

The following ingredients are listed or exempt:

*Distillates (petroleum), hydrotreated light*

*Petroleum gases, liquefied, sweetened*

*Asphalt, oxidized*

*Residual oils (petroleum), solvent-dewaxed*

*Residual oils (petroleum,) solvent-refined*

*Petroleum Resins*

*Residues (petroleum), atm. tower*

*Distillates (petroleum), hydrotreated heavy naphthenic*

*zinc oxide*

*12-hydroxystearic acid*

*Carbon black*

*Tallow*

*Petroleum oil*

*Polyisobutylene*

### US - TSCA 12(b) Export Notification

None of the ingredients are listed or exempt.

## 16. Other information

### Classification abbreviations and acronyms

Aerosol = Aerosol

Press. Gas, Compressed = Gas under pressure: Compressed gas

Aquatic Chronic = Hazardous to the aquatic environment (chronic)

### Training advice

Only trained personnel should use this material.

### SDS No.

5012

### Hazard statements in full

H220 Extremely flammable gas.

H222 Extremely flammable aerosol.

H280 Contains gas under pressure; may explode if heated.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H400 Very toxic to aquatic life.

H402 Harmful to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

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.