1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

GHS product identifier

Product Name
HPG-1 High Performance Grease

Other means of identification

Product Code(s)
HPG-1

Synonyms
HPG-1

Recommended use of the chemical and restrictions on use

Recommended Use
Lubrication of high performance bicycle components

Uses advised against
No information available

Supplier's details

Supplier Address
Park Tool Company
5115 Hadley Avenue N
St Paul, MN 55128
651-777-6868

Emergency telephone number

Emergency Telephone Number
CHEMTREC: 1-800-424-9300 for US/ 703-527-3887 outside US

2. HAZARDS IDENTIFICATION

Classification

This product is considered hazardous according to the criteria set within the US OSHA Hazard Communication Standard (29 CFR 1910.1200), Canada WHMIS 2015 which includes the amended Hazardous Products Act (HPA) and the Hazardous Products Regulation (HPR), and Mexico’s NMX-R-019-SC-2011.

Serious Eye Damage/Eye Irritation
Category 2

Label Elements

Signal Word
Warning
Hazard Statements
Causes serious eye irritation

Physical and Health Hazards Not Otherwise Classified
Not applicable.

Precautionary Statements
Prevention
• Wash face, hands and any exposed skin thoroughly after handling.
• Wear eye/face protection.

Eyes
• IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
• If eye irritation persists: Get medical advice/attention.

Other information
Harmful to aquatic life.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight %</th>
<th>Hazardous Material Information Review Act registry number (HMIRA registry #)</th>
<th>Date HMIRA filed and date exemption granted (if applicable)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Residual oils (petroleum), solvent dewaxed</td>
<td>64742-62-7</td>
<td>0 - &lt; 90</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Petroleum distillates, hydrotreated heavy paraffinic</td>
<td>64742-54-7</td>
<td>0 - &lt; 90</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Petroleum distillates, hydrotreated heavy naphthenic</td>
<td>64742-52-5</td>
<td>0 - &lt; 90</td>
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<td>-</td>
</tr>
<tr>
<td>Silica, amorphous, fumed, crystal-free</td>
<td>112945-52-5</td>
<td>5 - 10</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Calcium petroleum sulfonate</td>
<td>61789-86-4</td>
<td>1 - 5</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Zinc dialkyl dithiophosphate</td>
<td>68457-79-4</td>
<td>1 - &lt; 3</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

Description of necessary first-aid measures

Eye Contact
Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention.

Skin Contact
Wash skin with soap and water. Get medical attention if symptoms occur. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse.

Inhalation
Remove to fresh air and keep at rest in a position comfortable for breathing. If breathing is irregular or stopped, administer artificial respiration. If symptoms persist, call a physician.

Ingestion
Rinse mouth with water. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice. Have victim sip a glass of water if able to swallow. If vomiting occurs, lean victim forward to reduce the risk of aspiration. If symptoms persist, call a physician.
Protection of First-aiders

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

Most important symptoms/effects, acute and delayed

Most Important Symptoms/Effects

Eye irritation/reactions.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to Physician

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use water spray, fog, carbon dioxide (CO\textsubscript{2}), foam or dry chemical.

 Unsuitable Extinguishing Media

No information available

Specific Hazards Arising from the Chemical

Hazardous decomposition products formed under fire conditions: Carbon monoxide. Carbon dioxide (CO\textsubscript{2}). Halogenated compounds. Metal oxides.

Explosion Data

Sensitivity to Mechanical Impact

None.

Sensitivity to Static Discharge

None.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions

Deny entry to unauthorized and unprotected personnel. Do not touch or walk through spilled material. Ensure adequate ventilation. In case of insufficient ventilation wear suitable respiratory equipment. Use personal protective equipment. Avoid contact with skin, eyes and clothing.

Environmental Precautions

Prevent further leakage or spillage if safe to do so. Prevent from entering into soil, ditches, sewers, waterways, and/ or groundwater. Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up

Methods for Containment

Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up

Avoid dust formation. Pick-up spillage using a high efficiency vacuum cleaner. Keep in suitable and closed containers for disposal. Dispose of via a licensed waste disposal contractor.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling

Wear personal protective equipment. Do not ingest. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Empty containers may contain hazardous residues.

Conditions for safe storage, including any incompatibilities

Storage

Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from direct sunlight. Keep away from incompatible materials. Do not
store with food. Do not store in unlabeled containers. Store containers upright. Store in accordance with local regulations.

Incompatible Products

Oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Exposure Guidelines

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum distillates, hydrotreated heavy paraffinic 64742-54-7</td>
<td>TWA: 5 mg/m³, as oil mist, mineral&lt;br&gt;STEL: TWA: 10 mg/m³, as oil mist, mineral</td>
<td>TWA: 5 mg/m³, as oil mist, mineral</td>
<td>-</td>
</tr>
<tr>
<td>Residual oils (petroleum), solvent dewaxed 64742-62-7</td>
<td>TWA: 5 mg/m³, as oil mist, mineral&lt;br&gt;STEL: TWA: 10 mg/m³, as oil mist, mineral</td>
<td>TWA: 5 mg/m³, as oil mist, mineral</td>
<td>-</td>
</tr>
<tr>
<td>Silica, amorphous, fumed, crystal-free 112945-52-5</td>
<td>10 mg/m³</td>
<td>TWA: 20 mppcf: ((80)/(% SiO2) mg/m³)</td>
<td>IDLH: 3000 mg/m³&lt;br&gt;TWA: 6 mg/m³</td>
</tr>
</tbody>
</table>

Appropriate engineering controls

Engineering Measures

Showers<br>Eyewash stations<br>Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/Face Protection

Tightly fitting safety goggles.

Skin and Body Protection

Wear suitable protective clothing Chemical resistant gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Respiratory Protection

Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hygiene Measures

Do not eat, drink or smoke when using this product. Wash face, hands and any exposed skin thoroughly after handling. Wash hands before eating, drinking or smoking.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks / - Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>Not applicable</td>
<td>None known</td>
</tr>
<tr>
<td>Melting Point/Range</td>
<td>Not applicable</td>
<td>None known</td>
</tr>
<tr>
<td>Boiling Point/Boiling Range</td>
<td>Not applicable</td>
<td>None known</td>
</tr>
<tr>
<td>Flash Point</td>
<td>282.22 °C / 540 °F</td>
<td>Cleveland Open Cup (COC)</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Flammability Limits in Air</td>
<td></td>
<td></td>
</tr>
<tr>
<td>upper flammability limit</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>lower flammability limit</td>
<td>No data available</td>
<td>None known</td>
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<tr>
<td>Vapor Pressure</td>
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<td>None known</td>
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<tr>
<td>Vapor Density</td>
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<td>None known</td>
</tr>
<tr>
<td>Relative Density</td>
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<td>None known</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>Not applicable</td>
<td>None known</td>
</tr>
</tbody>
</table>
10. STABILITY AND REACTIVITY

Reactivity
No data available.

Chemical stability
Stable under recommended storage conditions.

Possibility of hazardous reactions
None under normal processing.

Hazardous Polymerization
Hazardous polymerization does not occur.

Conditions to avoid
Welding

Incompatible materials
Oxidizing agents.

Hazardous decomposition products
None under normal use.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation
No known effect based on information supplied.

Eye Contact
Causes serious eye irritation.

Skin Contact
No known effect based on information supplied

Ingestion
No known effect based on information supplied

Numerical measures of toxicity - Product

Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum distillates, hydrotreated heavy naphthenic</td>
<td>&gt; 5000 mg/kg ( Rat )</td>
<td>&gt; 2000 mg/kg ( Rabbit )</td>
<td>-</td>
</tr>
<tr>
<td>Petroleum distillates, hydrotreated heavy paraffinic</td>
<td>&gt; 5000 mg/kg ( Rat )</td>
<td>&gt; 5000 mg/kg ( Rabbit )</td>
<td>-</td>
</tr>
<tr>
<td>Residual oils (petroleum), solvent dewaxed</td>
<td>&gt; 5000 mg/kg ( Rat )</td>
<td>&gt; 2000 mg/kg ( Rabbit )</td>
<td>= 2.18 mg/L ( Rat ) 4 h</td>
</tr>
<tr>
<td>Silica, amorphous, fumed, crystal-free</td>
<td>= 3160 mg/kg ( Rat )</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Calcium petroleum sulfonate</td>
<td>&gt; 20 g/kg ( Rat )</td>
<td>&gt; 5000 mg/kg ( Rabbit )</td>
<td>-</td>
</tr>
<tr>
<td>Zinc dialkyl dithiophosphate</td>
<td>= 3600 mg/kg ( Rat )</td>
<td>&gt; 20000 mg/kg ( Rabbit )</td>
<td>-</td>
</tr>
</tbody>
</table>

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms
Eye irritation/reactions. Redness

Delayed and immediate effects and also chronic effects from short and long term exposure
Eye damage/irritation
Irritating to eyes.

Respiratory or Skin Sensitization
Based on available data, the classification criteria are not met.

Germ Cell Mutagenicity
Based on available data, the classification criteria are not met.

Carcinogenicity
Based on available data, the classification criteria are not met. Product contains petroleum distillates. The supplier declares that it can be shown that the substance(s) contain less than 3% DMSO extract as measured by IP 346.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Residual oils (petroleum), solvent dewaxed</td>
<td>A2</td>
<td>Group 1</td>
<td>Known</td>
<td>X</td>
</tr>
<tr>
<td>Petroleum distillates, hydrotreated heavy paraffinic</td>
<td>A2</td>
<td>Group 1</td>
<td>Known</td>
<td>X</td>
</tr>
<tr>
<td>Petroleum distillates, hydrotreated heavy naphthenic</td>
<td>A2</td>
<td>Group 1</td>
<td>Known</td>
<td>X</td>
</tr>
<tr>
<td>Silica, amorphous, fumed, crystal-free</td>
<td></td>
<td></td>
<td></td>
<td>Group 3</td>
</tr>
</tbody>
</table>

Reproductive Toxicity
Based on available data, the classification criteria are not met.

Developmental Toxicity
Based on available data, the classification criteria are not met.

STOT - single exposure
Based on available data, the classification criteria are not met.

STOT - repeated exposure
None of the ingredients are known to be an aspiration hazard.

Aspiration Hazard
None of the ingredients are known to be an aspiration hazard.

12. ECOLOGICAL INFORMATION

Ecotoxicity
Harmful to aquatic life

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Toxicity to Algae</th>
<th>Toxicity to Fish</th>
<th>Toxicity to Microorganisms</th>
<th>Daphnia Magna (Water Flea)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum distillates, hydrotreated heavy naphthenic 64742-52-5</td>
<td>LC50 96 h: &gt; 5000 mg/L (Onchorhynchus mykiss)</td>
<td>EC50 48 h: &gt; 1000 mg/L (Daphnia magna)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Petroleum distillates, hydrotreated heavy paraffinic 64742-54-7</td>
<td>LC50 96 h: &gt; 5000 mg/L (Onchorhynchus mykiss)</td>
<td>EC50 48 h: &gt; 1000 mg/L (Daphnia magna)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Residual oils (petroleum), solvent dewaxed 64742-62-7</td>
<td>LC50 96 h: &gt; 5000 mg/L (Onchorhynchus mykiss)</td>
<td>EC50 48 h: &gt; 1000 mg/L (Daphnia magna)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Silica, amorphous, fumed, crystal-free 112945-52-5</td>
<td>EC50 72 h: = 440 mg/L (Pseudokirchneriella subcapitata)</td>
<td>LC50 96 h: = 5000 mg/L static (Brachydianio reio)</td>
<td>EC50 48 h: = 7600 mg/L (Ceriodaphnia dubia)</td>
<td></td>
</tr>
<tr>
<td>Calcium petroleum sulfonate 61789-86-4</td>
<td>LC50 96 h: 1.0 - 10.0 mg/L semi-static (Pimephales promelas) LC50 96 h: 5.7 - 9.7 mg/L static (Pimephales promelas)</td>
<td>EC50 48 h: 6.2 - 12 mg/L (Daphnia magna)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zinc dialkyl dithiophosphate 68457-79-4</td>
<td>EC50 96 h: 1.0 - 5.0 mg/L (Pseudokirchneriella subcapitata)</td>
<td>LC50 96 h: 25 - 50 mg/L static (Pimephales promelas) LC50 96 h: &gt; 100 mg/L semi-static (Pimephales promelas)</td>
<td>EC50 48 h: 4.0 - 6.0 mg/L (Daphnia magna)</td>
<td></td>
</tr>
</tbody>
</table>

Persistence and Degradability
No information available

Bioaccumulation
No information available

Mobility
No information available

Other Adverse Effects
No information available.
13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods
The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Contaminated Packaging
Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

DOT
Not regulated

TDG
Not regulated

MEX
Not regulated

15. REGULATORY INFORMATION

International Regulations

| Ozone depleting substances | Not applicable |
| Persistent Organic Pollutants | Not applicable |
| Hazardous Waste | |

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Basel Convention (Hazardous Wastes)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc dialkyl dithiophosphate</td>
<td>Y23</td>
</tr>
</tbody>
</table>

The Rotterdam Convention (Prior Informed Consent)
Not applicable

International Convention for the Prevention of Pollution from Ships (MARPOL)
Not applicable

International Inventories

| TSCA | Contact supplier for inventory compliance status |
| DSL/NDSL | Contact supplier for inventory compliance status |

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

U.S. Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight %</th>
<th>SARA 313 - Threshold Values %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc dialkyl dithiophosphate</td>
<td>68457-79-4</td>
<td>1 - &lt; 3</td>
<td>1.0</td>
</tr>
</tbody>
</table>

SARA 311/312 Hazard Categories
Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications. Under the amended regulations at 40 CFR 370, EPCRA 311/312 Tier II reporting for the 2017 calendar year will need to be consistent with updated hazard classifications.
Clean Water Act
This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CWA - Reportable Quantities</th>
<th>CWA - Toxic Pollutants</th>
<th>CWA - Priority Pollutants</th>
<th>CWA - Hazardous Substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc dialkyl dithiophosphate</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations

California Proposition 65
This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

"X" designates that the ingredients are listed on the state right to know list.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
<th>Illinois</th>
<th>Rhode Island</th>
</tr>
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<tbody>
<tr>
<td>Petroleum distillates, hydrotreated heavy naphthenic</td>
<td></td>
<td></td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Petroleum distillates, hydrotreated heavy paraffinic</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Residual oils (petroleum), solvent dewaxed</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Silica, amorphous, fumed, crystal-free</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zinc dialkyl dithiophosphate</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health Hazard</th>
<th>Flammability</th>
<th>Instability</th>
<th>Physical and Chemical Hazards</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>2</td>
<td>1</td>
<td>0</td>
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<table>
<thead>
<tr>
<th>HMIS</th>
<th>Health Hazard</th>
<th>Flammability</th>
<th>Physical Hazard</th>
<th>Personal Protection</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>2</td>
<td>1</td>
<td>0</td>
<td>X</td>
</tr>
</tbody>
</table>

Prepared By
Product Stewardship
23 British American Blvd.
Latham, NY 12110
1-800-572-6501

Issuing Date 21-Jun-2018
Revision Date 21-Jun-2018
Revision Note Initial Release.

General Disclaimer
The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet