**Section 1 - Identification**

**Product Identifier**
ECOPOWER DIESEL ENGINE OIL
Includes Grades 15W-40, 10W, 30, 40

**Product Code**
Prefix 22

**Synonyms**
Petroleum oil; Lube oil; Petroleum hydrocarbon; Lubricant.

**Recommended Use**
For lubricating diesel engines. If this product is used in combination with other products, refer to the Safety Data Sheet for those products.

**Restrictions on Use**
None known.

**Manufacturer Information**
Safety-Kleen Systems, Inc.
2600 North Central Expressway
Suite 200
Richardson, TX 75080

Phone: 1-800-669-5740

www.safety-kleen.com

Emergency # 1-800-468-1760

**Issue Date**
March 30, 2015

**Supersedes Issue Date**
May 9, 2014

**Original Issue Date**
May 9, 2014

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**Section 2 - Hazard(s) Identification**

Not hazardous according to classification criteria.

**GHS LABEL ELEMENTS**

**Symbol(s)**
None needed according to classification criteria.

**Signal Word**
None needed according to classification criteria.

**Hazard Statement(s)**
None needed according to classification criteria.

**Precautionary Statement(s)**

**Prevention**
None needed according to classification criteria.

**Response**
None needed according to classification criteria.

**Storage**
None needed according to classification criteria.

**Disposal**
Dispose in accordance with all applicable regulations.

**Hazard(s) Not Otherwise Classified**
Repeated exposure may cause skin dryness or cracking.
Section 3 - Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>CAS</th>
<th>Component</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>64742-58-1</td>
<td>Lubricating oils, petroleum, hydrotreated spent</td>
<td>10-80</td>
</tr>
<tr>
<td>72623-83-7</td>
<td>Lubricating oils (petroleum), C&gt;25, hydrotreated bright stock</td>
<td>0-70</td>
</tr>
<tr>
<td>64742-62-7</td>
<td>Residual oils (petroleum), solvent dewaxed</td>
<td>0-70</td>
</tr>
<tr>
<td>64742-57-0</td>
<td>Residual Oils (petroleum), hydrotreated</td>
<td>0-70</td>
</tr>
<tr>
<td>64742-01-4</td>
<td>Residual oils (petroleum), solvent refined</td>
<td>0-70</td>
</tr>
<tr>
<td>64741-88-4</td>
<td>Petroleum distillates, solvent-refined heavy paraffinic</td>
<td>0-70</td>
</tr>
<tr>
<td>68649-42-3</td>
<td>Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts</td>
<td>0.5-2</td>
</tr>
<tr>
<td>ACC # 157143</td>
<td>Long chain alkyl thio carbamide metal complex</td>
<td>0.5-2</td>
</tr>
<tr>
<td>---</td>
<td>Mixture**</td>
<td>0-8</td>
</tr>
</tbody>
</table>

Component Related Regulatory Information

Section 4 - First Aid Measures

Description of Necessary Measures

Inhalation
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention, if needed.

Skin
IF ON SKIN: Wash with plenty of soap and water. Get medical attention, if needed.

Eyes
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if needed.

Ingestion
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Most Important Symptoms/Effects
Acute
No information on significant adverse effects.

Delayed
No information on significant adverse effects.

Indication of Immediate Medical Attention and Special Treatment Needed, If Needed
Treat symptomatically and supportively. Call 1-800-428-1760 for additional information.

Section 5 - Fire-Fighting Measures

Suitable Extinguishing Media
Carbon dioxide, regular foam, dry chemical, water spray, or water fog.

Unsuitable Extinguishing Media
Do not use high pressure water streams.

Specific Hazards Arising from the Chemical
Negligible fire hazard. Avoid friction, static electricity, and sparks.

Hazardous Combustion Products
Decomposition and combustion materials may be toxic. Burning may produce smoke, carbon dioxide, carbon monoxide, unidentified organic compounds, metal oxides, nitrogen oxides, hydrogen sulfide, sulfur oxides, oxides of phosphorus, and oxides of zinc.

Special Protective Equipment and Precautions for Firefighters
A positive-pressure, self-contained breathing apparatus (SCBA) and full-body protective equipment are required for fire emergencies.

Fire Fighting Measures
Move container from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out. Stay away from the ends of tanks. Keep unnecessary people away, isolate hazard area and deny entry.
**Section 6 - Accidental Release Measures**

**Personal Precautions, Protective Equipment and Emergency Procedures**

Wear personal protective clothing and equipment, see Section 8. Avoid release to the environment.

**Methods and Materials for Containment and Cleanup**

Remove all ignition sources. Do not touch or walk through spilled product. Stop leak if you can do it without risk. Wear protective equipment and provide engineering controls as specified in Section 8: Exposure Controls/Personal Protection. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Ventilate area and avoid breathing vapor or mist. A vapor suppressing foam may be used to reduce vapors. Contain spill away from surface water and sewers. Contain spill as a liquid for possible recovery, or sorb with compatible sorbent material and shovel with a clean, sparkproof tool into a sealable container for disposal.

Additionally, for large spills: Water spray may reduce vapor, but may not prevent ignition in closed spaces. Dike far ahead of liquid spill for collection and later disposal.

**Section 7 - Handling and Storage**

**Precautions for Safe Handling**

Keep away from sparks and flame. Where flammable mixtures may be present, equipment safe for such locations should be used. Use clean tools and explosion proof equipment. When transferring large volumes of product, metal containers, including trucks and tank cars, should be grounded and bonded. This product has a low vapor pressure and is not expected to present an inhalation hazard under normal temperatures and pressures. However, when aerosolizing, misting, or heating this product, do not breathe vapor or mist. Use in a well ventilated area. Avoid contact with eyes, skin, clothing, and shoes.

**Conditions for Safe Storage, Including Any Incompatibilities**

Keep container tightly closed when not in use and during transport. Store containers in a cool, dry place. Do not pressurize, cut, weld, braze, solder, drill, or grind containers. Keep containers away from heat, flame, sparks, static electricity, or other sources of ignition. Empty product containers may retain product residue and can be dangerous.

**Incompatibilities**

Oxidizing materials, acids.

**Section 8 - Exposure Controls / Personal Protection**

**Component Exposure Limits**

ACGIH, OSHA, and NIOSH have not developed exposure limits for any of this product's components.

**Appropriate Engineering Controls**

Provide general ventilation needed to maintain concentration of vapor or mist below applicable exposure limits. Where adequate general ventilation is unavailable, use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below applicable exposure limits.

**Individual Protective Measures, such as Personal Protective Equipment**

Personal protective equipment should be selected based upon the conditions under which this material is used. A hazard assessment of the work area for PPE requirements should be conducted by a qualified professional pursuant to regulatory requirements. The following PPE should be considered the minimum required: safety glasses, gloves, lab coat, or apron.

**Eyes/Face Protection**

Safety glasses with side shields should be worn at a minimum. Additional protection such as goggles, face shields, or respirators may be needed depending upon anticipated use and concentrations of mists or vapors. Provide an emergency eye wash fountain and quick drench shower in the immediate work area. Contact lens use is not recommended.

**Skin Protection**

Where skin contact is likely, wear gloves impervious to product; use of natural rubber (latex) or equivalent gloves is not recommended. When product is heated and skin contact is likely, wear heat-resistant gloves, boots, and other protective clothing.
**Respiratory Protection**
No respirator is required under normal conditions of use. Use NIOSH-certified P- or R-series particulate filter and organic vapor cartridges when concentration of vapor or mist exceeds applicable exposure limits. Protection provided by air purifying respirators is limited. Do not use N-rated respirators. Selection and use of respiratory protective equipment should be in accordance in the USA with OSHA General Industry Standard 29 CFR 1910.134; or in Canada with CSA Standard Z94.4.

*** Section 9 - Physical & Chemical Properties ***

- **Appearance/Odor:** Amber liquid, petroleum odor
- **Odor Threshold:** Not available
- **Melting Point:** Not available
- **Specific Gravity:** 0.88 (water = 1) (approximately)
- **Octanol/H2O Coeff.:** Not available.
- **pH:** Not available
- **Boiling Point:** 475°F (246°C) (minimum)
- **Solubility (H2O):** Insoluble.
- **Density:** 7.3 LB/US gal (880 g/l) (approximately)
- **Evaporation Rate:** 0.1 (butyl acetate = 1) (based on Stoddard Solvent)
- **Molecular Weight:** Not available.
- **LFL:** Not available
- **UFL:** Not available
- **Vapor Pressure:** Less than 0.1 mm Hg at 68°F (20°C)
- **Auto Ignition Temperature:** Not available
- **Flash Point:** 392°F (200°C) (minimum)
- **Viscosity:** Not available
- **Vapor Density:** Not available
- **Viscosity:** >20.5 mm²/s @ 104°F (40°C)

**Other Property Information**
No information is available.

*** Section 10 - Stability & Reactivity ***

- **Reactivity**
  No reactivity hazard is expected.
- **Chemical Stability**
  Stable under normal temperatures and pressures.
- **Possibility of Hazardous Reactions**
  Will not polymerize.
- **Conditions To Avoid**
  Avoid sparks, flames, and other sources of ignition.
- **Incompatible Materials**
  Avoid oxidizing agents and acids.
- **Hazardous Decomposition Products**
  None under normal temperatures and pressures.

*** Section 11 - Toxicological Information ***

**Toxicity Data and Information**

**Component Analysis - LD50/LC50**

- **Lubricating oils, petroleum, hydrotreated spent (64742-58-1)**
  Oral LD50 Rat >2000 mg/kg; Dermal LD50 Rat >2000 mg/kg; Dermal LD50 Rabbit >4480 mg/kg
  Inhalation LC50 Rat 2.18 mg/L 4 h; Oral LD50 Rat >5000 mg/kg; Dermal LD50 Rabbit >2000 mg/kg

- **Residual oils (petroleum), solvent refined (64742-01-4)**
  Inhalation LC50 Rat 2.18 mg/L 4 h; Oral LD50 Rat >5000 mg/kg; Dermal LD50 Rabbit >2000 mg/kg

- **Residual oils (petroleum), solvent dewaxed (64742-62-7)**
  Inhalation LC50 Rat 2.18 mg/L 4 h; Oral LD50 Rat >5000 mg/kg; Dermal LD50 Rabbit >2000 mg/kg

- **Lubricating oils (petroleum), C>25, hydrotreated bright stock (72623-83-7)**
  Oral LD50 Rat >5000 mg/kg

- **Petroleum distillates, solvent-refined heavy paraffinic (64741-88-4)**
  Inhalation LC50 Rat 2.18 mg/L 4 h; Oral LD50 Rat >5000 mg/kg; Dermal LD50 Rabbit >2000 mg/kg
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (68649-42-3)

<table>
<thead>
<tr>
<th>Duration/Test/Species</th>
<th>Concentration/Conditions/Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>96 Hr LC50 Pimephales promelas</td>
<td>1.0-5.0 mg/L [static]</td>
</tr>
<tr>
<td>96 Hr LC50 Pimephales promelas</td>
<td>10.0-35.0 mg/L [semi-static]</td>
</tr>
</tbody>
</table>

Information on Likely Routes of Exposure

Inhalation
No information on significant adverse effects.

Ingestion
May be harmful if swallowed.

Skin Contact
Prolonged or repeated skin contact may cause irritation.

Eye Contact
No information on significant adverse effects.

Immediate Effects
No information on significant adverse effects.

Delayed Effects
No information on significant adverse effects.

Irritation/Corrosivity
May cause slight skin and respiratory irritation.

Respiratory Sensitization
No information available for the product.

Skin Sensitization
No information available for the product.

Carcinogenicity
None of this product’s components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

Germ Cell Mutagenicity
No information available for the product.

Teratogenicity
No information available for the product.

Reproductive Effects
No epidemiological data is available for this product.

Specific Target Organ Effects - Single Exposure
No information on significant adverse effects.

Specific Target Organ Effects - Repeated Exposure
No information on significant adverse effects.

Aspiration Hazard
No data available.

Medical Conditions Aggravated by Exposure
Individuals with pre-existing respiratory tract (nose, throat, and lungs), central nervous system, kidney, eye, and/or skin disorders may have increased susceptibility to the effects of exposure.

Harmful to aquatic life.

Component Analysis - Ecotoxicity - Aquatic Toxicity

Lubricating oils, petroleum, hydrotreated spent (64742-58-1)

<table>
<thead>
<tr>
<th>Duration/Test/Species</th>
<th>Concentration/Conditions/Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>96 Hr LC50 Brachydanio rerio</td>
<td>79.6 mg/L [semi-static]</td>
</tr>
<tr>
<td>96 Hr LC50 Pimephales promelas</td>
<td>3.2 mg/L [semi-static]</td>
</tr>
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</table>

Residual oils (petroleum), solvent refined (64742-01-4)

<table>
<thead>
<tr>
<th>Duration/Test/Species</th>
<th>Concentration/Conditions/Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>96 Hr LC50 Oncorhynchus mykiss</td>
<td>&gt;5000 mg/L</td>
</tr>
</tbody>
</table>
Residual oils (petroleum), solvent dewaxed (64742-62-7)
Duration/Test/Species: 96 Hr LC50 Oncorhynchus mykiss
Concentration/Conditions/Notes: >5000 mg/L

Lubricating oils (petroleum), C>25, hydrotreated bright stock (72623-83-7)
Duration/Test/Species: 96 Hr LC50 Lepomis macrochirus
Concentration/Conditions/Notes: >10000 mg/L

Petroleum distillates, solvent-refined heavy paraffinic (64741-88-4)
Duration/Test/Species: 96 Hr LC50 Oncorhynchus mykiss
Concentration/Conditions/Notes: >5000 mg/L

Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (68649-42-3)
Duration/Test/Species: 96 Hr LC50 Pimephales promelas
Concentration/Conditions/Notes: 1.0-5.0 mg/L [static]
96 Hr LC50 Pimephales promelas
Concentration/Conditions/Notes: 10.0-35.0 mg/L [semi-static]

Persistence and Degradability
No information available for the product.

Bioaccumulation Potential
No information available for the product.

Mobility in Soil
No information available for the product.

Other Adverse Effects
No additional information is available.

*** Section 13 - Disposal Considerations ***
Dispose in accordance with federal, state, provincial, and local regulations. Regulations may also apply to empty containers. The responsibility for proper waste disposal lies with the owner of the waste. Contact Safety-Kleen regarding proper recycling or disposal.
This product, if discarded, is not expected to be a characteristic or listed hazardous waste. If recycled in the USA, this product can be managed in accordance with the used oil exemption under 40 CFR Part 279. Processing, use, or contamination by the user may change the waste code(s) applicable to the disposal of this product.

*** Section 14 - Transport Information ***
Emergency Response Guide Number
Not applicable.

DOT Shipping Name: Not regulated as a hazardous material for transportation.
TDG Shipping Name: Not regulated as a dangerous good for transportation.

*** Section 15 - Regulatory Information ***
Volatile Organic Compounds (As Regulated)
Negligible; As per 40 CFR Part 51.100(s)

Federal Regulations
SARA 302/304

Component Analysis
Based on the ingredient(s) listed in SECTION 3, this product does not contain any "extremely hazardous substances" listed pursuant to Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) Section 302 or Section 304 as identified in 40 CFR Part 355, Appendix A and B.

SARA 311/312 Hazardous Categories
Acute Health: No Chronic Health: No Fire: No Pressure: No Reactive: No

SARA Section 313
Component Analysis
This product contains a "toxic" chemical subject to the requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR Part 372.
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (68649-42-3)
1.0 % de minimis concentration (related to Zinc compounds)
CERCLA
Component Analysis
Based on the ingredient(s) listed in SECTION 3, this product does not contain any "hazardous substance" listed under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) in 40 CFR Part 302, Table 302.4.

TSCA Inventory
All the components of this product are listed on, or are automatically included as "naturally occurring chemical substances" on, or are exempted from the requirement to be listed on, the TSCA Inventory.

Component Analysis

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>TSCA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lubricating oils, petroleum, hydrotreated spent</td>
<td>64742-58-1</td>
<td>Yes</td>
</tr>
<tr>
<td>Residual oils (petroleum), solvent refined</td>
<td>64742-01-4</td>
<td>Yes</td>
</tr>
<tr>
<td>Residual oils (petroleum), solvent dewaxed</td>
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<td>Yes</td>
</tr>
<tr>
<td>Lubricating oils (petroleum), C&gt;25, hydrotreated bright stock</td>
<td>72623-83-7</td>
<td>Yes</td>
</tr>
<tr>
<td>Petroleum distillates, solvent-refined heavy paraffinic</td>
<td>64741-88-4</td>
<td>Yes</td>
</tr>
<tr>
<td>Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts</td>
<td>68649-42-3</td>
<td>Yes</td>
</tr>
</tbody>
</table>

U.S. State Regulations
None of this product’s components are listed on the state lists from CA, MA, MN, NJ, or PA.

Canadian Regulations
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all information required by the CPR.

Component Analysis

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>CAN</th>
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<tbody>
<tr>
<td>Lubricating oils, petroleum, hydrotreated spent</td>
<td>64742-58-1</td>
<td>DSL</td>
</tr>
<tr>
<td>Residual oils (petroleum), solvent refined</td>
<td>64742-01-4</td>
<td>DSL</td>
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<tr>
<td>Residual oils (petroleum), solvent dewaxed</td>
<td>64742-62-7</td>
<td>DSL</td>
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<td>68649-42-3</td>
<td>DSL</td>
</tr>
</tbody>
</table>

Canadian WHMIS Information
Not regulated.

Component Analysis – WHMIS IDL
Not regulated.

*** Section 16 - Other Information ***

Revision Information

Key/Legend
ACGIH - American Conference of Governmental Industrial Hygienists; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CN - China; CPR - Controlled Products Regulations; DOT - Department of Transportation; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; RTECS - Registry of Toxic Effects of Chemical Substances®; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States
Disclaimer

User assumes all risks incident to the use of this product. To the best of our knowledge, the information contained herein is accurate. However, Safety-Kleen assumes no liability whatsoever for the accuracy or completeness of the information contained herein. **No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to the information or the product to which the information refers.** The data contained on this sheet apply to the product as supplier to the user.

End of Sheet 820125