

## DESCRIPTIVE FEATURES OF PARKER'S O-LUBE

Date: 7/13/2004

|                              |             |                                   |
|------------------------------|-------------|-----------------------------------|
| Ingredients                  | Barium Soap | 25-30%                            |
|                              | Base Oil    | 70-75%                            |
| Water Content                |             | 0.2% max.                         |
| Grease Number                |             | #2 NLGI                           |
| Pour Point (open cup)        |             | 485°F max.                        |
| Flash Point (open cup)       |             | 435°F min.                        |
| Fire Point                   |             | 485°F min.                        |
| ASTM D217 Penetration @ 77°F |             | 265-295                           |
| ASTM Drop Point              |             | 400°F min.                        |
| Ash Sulfate                  |             | 14.25% max.                       |
| Specific Gravity             |             | Less than 1.0<br>(.9007 to .9129) |

Note: Classed as a combustible liquid, Class III B

**PARKER O-LUBE  
MATERIAL SAFETY DATA SHEET**

Date: 7/13/2004

*Required under USDL Safety and Health Regulations for Ship Repairing,  
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)*

**Section I**

|                                |   |
|--------------------------------|---|
| <b>Manufacturer's Name</b>     | Parker Hannifin Corp., O-Ring Division                |
| <b>Emergency Telephone No.</b> | (859) 269-2351  |
| <b>Address</b>                 | 2360 Palumbo Drive, PO Box 11751, Lexington, KY 40512 |
| <b>Trade Name and Synonyms</b> | Parker O-Lube   |
| <b>Chemical Family</b>         | Petroleum Grease                                      |

**Section II - Hazardous Ingredients**

**Hazardous Mixture of Other Liquids, Solids, or Gasses**

|  |                  |
|--|------------------|
| Petroleum Naphthenic Oil CAS #64742-52-5 | 70-75% by weight |
| Barium Soap - Insoluble CAS #68201-19-4  | 25-30% by weight |

NFPA (HMIS) Code: Health-1, Flammability-0, Reactivity-0

All ingredients are listed on the TSCA Chemical Substances Inventory.

**Section III - Physical Data**

|  |                                  |
|--|----------------------------------|
| <b>Boiling Point (°F)</b>              | 700                              |
| <b>Specific Gravity</b>                | Less than 1.0                    |
| <b>Vapor Pressure</b>                  | N/A                              |
| <b>Percent, Volatile by Volume (%)</b> | N/A                              |
| <b>Vapor Density (Air=1)</b>           | N/A                              |
| <b>Evaporation Weight</b>              | Less than 1.0                    |
| <b>Solubility in Water</b>             | Negligible                       |
| <b>Appearance and Odor</b>             | Semi-Solid, Amber Color, No Odor |

**Section IV - Fire and Explosion Hazard Data**

|  |  |
|--|--|
| <b>Flash Point (Method Used)</b>           | 435°(Open Cup)   |
| <b>Flammable Limits</b>                    | N/A <b>le:</b> N/A <b>ue:</b> N/A  |
| <b>Extinguishing Media</b>                 | Carbon dioxide, Foam and Dry Chemical  |
| <b>Special Fire Fighting Procedure</b>     | Wear self contained breathing apparatus. Water of foam may cause frothing which can be violent, especially if sprayed into containers of hot burning liquid. |
| <b>Unusual Fire and Explosion Hazards:</b> | Never use welding or cutting torch on or near (even empty) container because product (even just residue) can ignite explosively.                             |

to be considered as permission, recommendation, nor as an inducement, to practice any patented invention without permission of the patent owner.

**Section V - Health Hazard Data**

|  |   |
|--|---|
| <b>Threshold Limit Value</b>               | 5 mg/m <sup>3</sup>   |
| <b>Permissible Exposure Level</b>          | 5 mg/m <sup>3</sup>   |
| <b>Effects on Overexposure</b>             | Eyes: Moderate irritation, redness tearing<br>Skin: Slight irritation<br>Swallowing: Gastric intestinal irritation, nausea, vomiting & diarrhea   |
| <b>Emergency &amp; First Aid Procedure</b> | Inhalation: None known.<br>Ingestion: Immediately drink 2 glasses of water, induce vomiting, medical attention.<br>Eyes: Flush with large amounts of water, lifting eye lids occasionally, seek medical attention.<br>Skin: Wash exposed area with soap & water.<br>Inhalation: N/A |

**Section VI - Reactivity Data**

|   |   |
|---|---|
| <b>Stability</b>                            | Stable  |
| <b>Conditions to Avoid</b>                  | Temperatures over 600° F                                  |
| <b>Incompatibility (Materials to avoid)</b> | Strong Oxidizers  |
| <b>Hazardous Decomposition Product</b>      | Carbon Monoxide - Carbon Dioxide and various hydrocarbons |
| <b>Hazardous Polymerization</b>             | Will not occur.   |

**Section VII -Spill or Leak Procedures**

|  |   |
|--|---|
| <b>Steps to be taken in case material is released or spilled</b> | Small Spill: Collect in beaker.<br>Large Spill: Persons not wearing protective equipment should be excluded from area of spill until cleanup has been completed. Shovel material into container. Remaining material should be taken up with absorbent material. |
| <b>Waste Disposal Method</b>                                     | Per local, state, and federal regulations.  |

**Section VIII - Special Protection Information**

|   |   |
|---|---|
| <b>Respiratory Protection (<i>Specify type</i>)</b> | Not required under normal use.  |
| <b>Ventilation</b>                                  | <b>Local Exhaust:</b> N/A<br><b>Special:</b> N/A<br><b>Mechanical:</b> Recommended<br><b>Other:</b> N/A |
| <b>Protective Gloves</b>                            | Oil resistant gloves such as Nitrile or Neoprene Rubber.  |
| <b>Eye Protection</b>                               | Not required under normal use.  |
| <b>Other Protective Gear</b>                        | N/A   |

**Section IX- Special Precautions**

|  |  |
|--|--|
| <b>Precautions to be taken in Handling and Storing</b> | Normal precautions - avoid fire hazards. |
| <b>Other Precautions</b>                               | None.                                    |

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