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 (.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

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

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

Section IV - Fire and Explosion Hazard Data

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

The information contained herein is believed to be reliable, but no representations, guarantees, or warranties of any kind are made as to its accuracy, suitability for particular applications or the results to be obtained therefrom. Nothing herein is

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

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

Section VI - Reactivity Data

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

Section VII -Spill or Leak Procedures

Steps to be taken in case material is released or spilled

Small Spill: Collect in beaker.

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.

Waste Disposal Method Per local, state, and federal regulations.

Section VIII - Special Protection Information

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

Section IX- Special Precautions

Precautions to be taken in Handling and Storing	Normal precautions - avoid fire hazards.
Other Precautions	None.

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