

MATERIAL SAFETY DATA SHEET

Trade Name: Johnsens PowerSteering Fluid
MSDS NO. 4611
Revision Date: 05/25/2007
Date Printed: 12/30/2008

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Johnsens PowerSteering Fluid
Chemical Family: PETROLEUM HYDROCARBON OIL
Synonyms: None
Emergency Telephone (24 hr.): CHEMTREC 1-800-424-9300

Supplier: Technical Chemical Company, P.O. Box 139, Cleburne, Texas 76033

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight %	OSHA TWA	OSHA STEL	OSHA SKIN
Heavy Hydrotreated Naphthenic Distillates (petroleum) 64742-52-5	80-99	Not Listed	Not Listed	Not Listed
Mineral Oil, petroleum distillates, hydrotreated (severe) heavy paraffinic 64742-54-7	20-39	Not Listed	Not Listed	Not Listed
Dipropylene Glycol Methyl Ether Acetate 88917-22-0	0-5	Not Listed	Not Listed	Not Listed
Glycol Ether DB 112-34-5	0-5	Not Listed	Not Listed	Not Listed

Component	Weight %	OSHA Z PEL	OSHA Z TWA	OSHA Z Ceiling
Heavy Hydrotreated Naphthenic Distillates (petroleum) 64742-52-5	80-99	2000 mg/m ³ 500 ppm	1600 mg/m ³ 400 ppm	Not Listed
Mineral Oil, petroleum distillates, hydrotreated (severe) heavy paraffinic 64742-54-7	20-39	Not Listed	Not Listed	Not Listed
Dipropylene Glycol Methyl Ether Acetate 88917-22-0	0-5	Not Listed	Not Listed	Not Listed
Glycol Ether DB 112-34-5	0-5	Not Listed	Not Listed	Not Listed

MATERIAL SAFETY DATA SHEET

Trade Name: Johnsens PowerSteering Fluid
MSDS NO. 4611
Revision Date: 05/25/2007
Date Printed: 12/30/2008

Component	ACGIH TLV TWA	ACGIH TLV STEL	ACGIH TLV Ceiling
Heavy Hydrotreated Naphthenic Distillates (petroleum) 64742-52-5	Not Listed	Not Listed	Not Listed
Mineral Oil, petroleum distillates, hydrotreated (severe) heavy paraffinic 64742-54-7	Not Listed	Not Listed	Not Listed
Dipropylene Glycol Methyl Ether Acetate 88917-22-0	Not Listed	Not Listed	Not Listed
Glycol Ether DB 112-34-5	Not Listed	Not Listed	Not Listed

3. HAZARDS IDENTIFICATION

Emergency Overview: May irritate the skin. This material is an eye irritant. Caution: Combustible.
HMIS Classification: Health: *2 Flammability: 2 Physical Hazard: 0
NFPA Rating: Health: 1 Flammability: 2 Reactivity: 1

4. FIRST AID MEASURES

Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Seek medical attention if irritation persists.
Ingestion: Do Not Induce Vomiting. This material is practically non-toxic if ingested in small amounts (tablespoonful). Swallowing amounts larger may cause injury. Seek medical attention.
Inhalation: If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention.
Skin Contact: Wash with soap and water. Remove contaminated clothing and shoes, and launder before reuse. If irritation persists or signs of toxicity occur, seek medical attention. If product is injected into or under the skin, or into any part of the body, the individual should be evaluated immediately by a physician as a surgical emergency.

5. FIRE FIGHTING MEASURES

Flammable Properties

Flash Point °F(°C): >200 F
Flash Point Method: TAG Closed Cup
Flammable Limits in Air - Lower (%): Not Determined
Flammable Limits in Air - Upper (%): Not Determined
Autoignition Temperature °F(°C): Not Determined
Extinguishing Media: Foam. Water. Dry chemical.
Protection Of Fire-Fighters:

Special Fire-Fighting Procedures: Wear approved positive-pressure self-contained breathing apparatus and protective clothing. Do not direct a solid stream of water or foam into hot, burning pools; this may cause frothing and increase fire intensity.
Hazardous Combustion Products: Fumes and Smoke. Carbon Monoxide. Aldehydes.
Aerosol Comments: Not Applicable

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate protective clothing and equipment to prevent skin and eye contact.
Spill Procedures: Contain any liquid from leaking containers.
Action to be taken if material is released or spilled: Wear proper protective equipment as specified in the protective equipment section. Remove sources of ignition. Increase area ventilation. Absorb spills on inert material such as perlite, vermiculite, sand or dirt. Place in double polyethylene bags. Isolate from other waste materials.
Environmental Precautions: Do not allow to enter sanitary drains, sewer or surface and subsurface waters.

MATERIAL SAFETY DATA SHEET

Trade Name: Johnsens PowerSteering Fluid
MSDS NO. 4611
Revision Date: 05/25/2007
Date Printed 12/30/2008

7. HANDLING AND STORAGE

Handling and Storage: Keep container closed when not in use. Avoid contact with skin and eyes. Use only in a well ventilated area. Caution: Combustible. Keep away from heat and open flame. Keep away from food and smoking materials. Wash hands before eating and smoking.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Showers. Eyewash stations. Use local exhaust.
Eyes: Wear safety glasses or goggles to protect against exposure.
Skin Protection: Use chemical resistant gloves for prolonged skin contact. Wash hands and other exposed areas with mild soap and water before eating, drinking, smoking and when leaving work.
Respiratory Protection: Use in a well ventilated area. Use approved NIOSH respiratory protection if TLV exceeded..... Or over exposure is likely.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Colorless to light yellow liquid
Odor: MILD PETROLEUM
pH Value: Not Determined
Vapor Pressure: Not Determined
Vapor Density (Air=1): Not Determined
Boiling Point (°F): >400 F
Melting/Freezing Point: Not determined.
Solubility in Water: <4%
Bulk Density at 20°C: Not Determined
Molecular Weight: Mixture
Specific Gravity (H2O=1): .9 approx.
Viscosity: Not determined.
Evaporation Rate: Not Determined
VOC Content(%): 2 (CARB Method 310)
Decomposition Temperature: Not Known

10. STABILITY AND REACTIVITY

Chemical Stability: STABLE.
Conditions to Avoid: Keep away from heat, sparks and flame.
Materials to Avoid: Strong oxidizing agents. Strong acids. Concentrated oxygen. Sodium Hydrochlorite and Calcium Hydrochlorite as this presents a serious explosion hazard.
Hazardous Decomposition Products: Carbon monoxide. and other asphxiants.
Hazardous Polymerization: WILL NOT OCCUR

11. TOXICOLOGICAL INFORMATION

Toxicological Data:

MATERIAL SAFETY DATA SHEET

Trade Name: Johnsens PowerSteering Fluid
 MSDS NO. 4611
 Revision Date: 05/25/2007
 Date Printed: 12/30/2008

Component	Route	Species	Dose
Heavy Hydrotreated Naphthenic Distillates (petroleum) 64742-52-5	NA	NA	Not known.
Mineral Oil, petroleum distillates, hydrotreated (severe) heavy paraffinic 64742-54-7	Oral	Rats	LD50 >15 gm/kg
Dipropylene Glycol Methyl Ether Acetate 88917-22-0	NA	NA	Not known.
Glycol Ether DB 112-34-5	Oral	Rats	LD50 5660 mg/kg

Carcinogenicity:

Component	IARC	NTP	OSHA
Heavy Hydrotreated Naphthenic Distillates (petroleum) 64742-52-5	Not Listed	Not Listed	Not Listed
Mineral Oil, petroleum distillates, hydrotreated (severe) heavy paraffinic 64742-54-7	Not Listed	Not Listed	Not Listed
Dipropylene Glycol Methyl Ether Acetate 88917-22-0	Not Listed	Not Listed	Not Listed
Glycol Ether DB 112-34-5	Not Listed	Not Listed	Not Listed

12. ECOLOGICAL INFORMATION

Remarks: Ecological testing has not been conducted on this product.

13. DISPOSAL CONSIDERATION

Waste Classification: Not determined.
Waste Management: Not determined.
Disposal Method: Disposal should be made in accordance with federal, state and local regulations.

14. TRANSPORTATION INFORMATION

U.S. DOT:
Proper Shipping Name: Not Regulated
Hazard Class: Not Regulated
UN/NA Number: Not Applicable
DOT Packing Group: Not Applicable

IMDG:
Proper Shipping Name: Not Regulated
Hazard Class: Not Regulated
Hazard Subclass: Not determined.
UN No.: Not Applicable
Packing Group: Not Applicable

MATERIAL SAFETY DATA SHEET

Trade Name: Johnsens PowerSteering Fluid
 MSDS NO. 4611
 Revision Date: 05/25/2007
 Date Printed: 12/30/2008

14. TRANSPORTATION INFORMATION

Marine Pollutant: No

15. REGULATORY INFORMATION

US Federal Regulations:

Component	SARA 313	SARA 302	TPQ	RQ
Heavy Hydrotreated Naphthenic Distillates (petroleum) 64742-52-5	Not Listed	Not Listed	Not Listed	Not Listed
Mineral Oil, petroleum distillates, hydrotreated (severe) heavy paraffinic 64742-54-7	Not Listed	Not Listed	Not Listed	Not Listed
Dipropylene Glycol Methyl Ether Acetate 88917-22-0	Not Listed	Not Listed	Not Listed	Not Listed
Glycol Ether DB 112-34-5	Listed.	Not Listed	Not Listed	Not Listed

SARA 311/312 Hazard Categories: Not Determined.

State Regulations:

Component	California Prop. 65 Cancer list	California - Prop 65 Developmental Toxicity	California Prop. 65 Reproductive Female	California Prop. 65 Reproductive Male
Heavy Hydrotreated Naphthenic Distillates (petroleum) 64742-52-5	Not Listed	Not Listed	Not Listed	Not Listed
Mineral Oil, petroleum distillates, hydrotreated (severe) heavy paraffinic 64742-54-7	Not Listed	Not Listed	Not Listed	Not Listed
Dipropylene Glycol Methyl Ether Acetate 88917-22-0	Not Listed	Not Listed	Not Listed	Not Listed
Glycol Ether DB 112-34-5	Not Listed	Not Listed	Not Listed	Not Listed

Component	New Jersey Right-to-Know List:
Glycol Ether DB 112-34-5	Substance no. 2265

U.S. TSCA: The components of this product are listed on the TSCA Inventory.
Canadian Inventory: The components of this product are listed on the Canadian DSL or NDSL Inventory.

MATERIAL SAFETY DATA SHEET

Trade Name: Johnsens PowerSteering Fluid
MSDS NO. 4611
Revision Date: 05/25/2007
Date Printed 12/30/2008

Consumer Product Safety Improvement Act of 2008 General Conformity Certification

The Supplier identified in Section 1 of this MSDS has evaluated this product and certifies it to be labeled and packaged in compliance with the applicable provisions of the Federal Hazardous Substance Act as stated in 16 CFR 1500 and enforced by the Consumer Product Safety Commission, and where applicable the products that require Child Resistant Closures are packaged in accordance with the Poison Prevention Packaging Act as stated in 16 CFR 1700 and enforced by the Consumer Product Safety Commission. All closures have been tested in accordance with the latest protocols. No other testing is required to certify compliance with the above. The date of manufacture is stamped on the product container.

16. OTHER INFORMATION

General Notes:
Disclaimer:

Do not allow undiluted material or large quantities to reach groundwater, bodies of water or sewer system. The information and recommendations contained herein are based upon tests believed to be reliable. However, the manufacturer/distributor of this product does not guarantee their accuracy or completeness NOR SHALL ANY OF THIS INFORMATION CONSTITUTE A WARRANTY, WHETHER EXPRESSED OR IMPLIED, AS TO THE SAFETY OF THE GOODS, THE MERCHANTABILITY OF THE GOODS, OR THE FITNESS OF THE GOODS FOR A PARTICULAR PURPOSE. Adjustment to conform to actual conditions of usage may be required. The manufacturer/distributor assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied.