

MATERIAL SAFETY DATA SHEET

Trade Name: Johnsens Power Steering Fluid
 MSDS NO. 4610
 Revision Date: 03/01/2002

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Johnsens Power Steering 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

Ingredient/CAS No.	wt. %	OSHA PEL TWA	OSHA PEL Ceiling Limits	ACGIH TLV TWA	ACGIH TLV STEL
Heavy Hydrotreated Naphthenic Distillates (petroleum) 64742-52-5	50-99	Not known	Mist 5 mg/m3	TLV Mist 5 mg/m3 8 HR.	Not Known
Mineral Oil, petroleum distillates, hydrotreated (severe) heavy paraffinic 64742-54-7	20-50	None Established	None Established	None Established	None Established
Glycol Ether DB 112-34-5	0-5	None Established	None Established	None Established	None Established
Dipropylene Glycol Methyl Ether Acetate 88917-22-0	0-5	None Established	None Established	None Established	None Established

3. HAZARDS IDENTIFICATION

Emergency Overview: May irritate the skin. This material is an eye irritant. Caution: Combustible

4. FIRST AID MEASURES

Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get 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 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:

Aerosol Comments: Fumes and Smoke, Carbon Monoxide, Aldehydes.

Special Fire-Fighting Procedures:

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.

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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.

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

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 asphxians.
Hazardous Polymerization: WILL NOT OCCUR

11. TOXICOLOGICAL INFORMATION

Toxicological Data:

Ingredient/CAS No.	wt. %	Route	Species	Dose
Heavy Hydrotreated Naphthenic Distillates (petroleum) 64742-52-5	50-99	NA	NA	Not known.
Mineral Oil, petroleum distillates, hydrotreated (severe) heavy paraffinic 64742-54-7	20-50	Oral	Rats	LD50 >15 gm/kg
Glycol Ether DB 112-34-5	0-5	Oral	Rats	LD50 5660 mg/kg
Dipropylene Glycol Methyl Ether Acetate 88917-22-0	0-5	NA	NA	Not known.

Carcinogenicity:

Ingredient/CAS No.	wt. %	IARC	NTP	OSHA
Heavy Hydrotreated Naphthenic Distillates (petroleum) 64742-52-5	50-99	Not Listed	Not Listed	Not Listed
Mineral Oil, petroleum distillates, hydrotreated (severe) heavy paraffinic 64742-54-7	20-50	Not Listed	Not Listed	Not Listed

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Glycol Ether DB 112-34-5	0-5	Not Listed	Not Listed	Not Listed
Dipropylene Glycol Methyl Ether Acetate 88917-22-0	0-5	Not Listed	Not Listed	Not Listed

12. ECOLOGICAL INFORMATION

Ecological testing has not been conducted on this product.

13. DISPOSAL CONSIDERATION

Waste Classification: Not determined.

Waste Management: Not determined.

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
Marine Pollutant: No

15. REGULATORY INFORMATION

US Federal Regulations:

Ingredient/CAS No.	wt. %	SARA 313	SARA 302	RQ	TPQ
Heavy Hydrotreated Naphthenic Distillates (petroleum) 84742-52-5	50-99	Not Listed	Not Listed	NA	NA
Mineral Oil, petroleum distillates, hydrotreated (severe) heavy paraffinic 64742-54-7	20-50	Not Listed	Not Listed	NA	NA
Glycol Ether DB 112-34-5	0-5	Not Listed	Not Listed	NA	NA
Dipropylene Glycol Methyl Ether Acetate 88917-22-0	0-5	Not Listed	Not Listed	NA	NA

SARA 311/312 Hazard Categories: Not Determined.

State Regulations:

Ingredient/CAS No.	wt. %	California Prop. 65 Cancer list	California Prop. 65 Developmental Toxicity	California Prop. 65 Reproductive Female	California Prop. 65 Reproductive Male

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Glycol Ether DB 112-34-5	0-5	Not Listed	Not Listed	Not Listed	Not Listed
Dipropylene Glycol Methyl Ether Acetate 88917-22-0	0-5	Not Listed	Not Listed	Not Listed	Not Listed

U.S. TSCA: The components of this product are listed on the TSCA Inventory.

16. OTHER INFORMATION

General Notes: Do not allow undiluted material or large quantities to reach groundwater, bodies of water or sewer system.

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