

MATERIAL SAFETY DATA SHEET

SECTION I - PRODUCT AND PREPARATION INFORMATION

PRODUCT INFORMATION

IDENTITY (TRADE NAME): Power Steering Fluid
SYNONYMS: Power Steering Fluid
PRODUCT CODE: 2821
FAMILY/CHEMICAL NAME: Petroleum Hydrocarbon
PRODUCT USE: Power Steering Systems

24 HOUR EMERGENCY TELEPHONE: 1-800-424-9300

MANUFACTURER/SUPPLIER: W.H. Lubricants Ltd.
185 Frobisher Drive
Waterloo, Ontario, N2V 2E6
519-746-7720 (phone)
519-746-6370 (fax)

REVISION DATE: January 1, 2014

SECTION 2 - HAZARDOUS COMPONENTS

Components	Cas #	Percentage	Hazardous Data	ACHIH TVL
Lubricating Oils, petroleum, Hydro-treated spent	64742-58-1	85-100%	5mg/m ³	5mg/m ³
Residual Oils	64742-62-7	0-15%	5mg/m ³	5mg/m ³

SECTION 3 - EMERGENCY AND FIRST AID PROCEDURES

EYES: Flush eyes with water for 15 minutes lifting upper and lower lids occasionally. Consult physician if irritation or pain persists.

SKIN: Remove contaminated clothing and shoes. Wash exposed skin with soap and water. Consult physician if irritation or pain persists.

INHALATION: (Breathing) Move victim to fresh air. Provide respiratory support if necessary. See medical attention immediately.

INGESTION: (Swallowing) Seek immediate medical attention. Do not induce vomiting unless recommended by physician. If spontaneous vomiting occurs, keep head below hips to avoid aspiration (into lungs).

SPECIAL NOTE TO PHYSICIAN: In general, lubricating oils have a low oral toxicity.

SECTION 4 - HEALTH HAZARD DATA AND TOXICOLOGICAL PROPERTIES

PRIMARY ROUTES OF EXPOSURE: Eyes and skin contact; inhalation of incidental mists or vapors; ingestion.

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SIGNS AND SYMPTOMS OR EXPOSURE:

ACUTE:	Eyes:	Contact may produce mild eye irritation and redness.
	Skin:	Contact may produce mild skin irritation. No significant skin absorption hazard
	Inhalation (Breathing):	High concentration of vapor or mist may be irritating to the respiratory tract.
	Ingestion (Swallowing):	Low order of acute oral toxicity. May cause irritation of gastrointestinal tract, nausea and vomiting. Aspiration into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and possibly death.
CHRONIC:	Prolonged or repeated skin contact may cause drying or dermatitis.	

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

Individuals with pre-existing lung or disorders may have increased susceptibility to the effects of exposure.

OTHER POTENTIAL HEALTH HAZARDS:

None

SECTION 5 - FIRE AND EXPLOSION HAZARD DATA

FIRE AND EXPLOSION HAZARDS:	Decomposition and combustion products may be toxic. Heated containers may rupture, explode or be thrown into the air. Vapors are heavier than air and may travel great distances to ignition sources and flash back or explode. Not sensitive to mechanical impact or static discharge.				
FIRE FIGHTING PROCEDURES:	NFPA Rating:	Health - 0	Fire - 1	Reactivity - 0	
	Hazard Rating:	Least - 0	Slight - 1	High - 3	Extreme - 4
EXTINGUISHING MEDIA:	Carbon dioxide, regular foam or dry chemical				
CONDITIONS OF FLAMMABILITY:	Intense heat, sparks or flame				
FLASH POINT:	363°F COC				

SECTION 6 - REACTIVITY DATA

STABILITY:	Stable under normal temperatures and pressures; not water reactive
INCOMPATIBILITY (MATERIALS AND CONDITIONS TO AVOID):	Avoid oxidizing agents, intense heat, sparks or flame
HAZARDOUS POLYMERIZATION:	None
HAZARDOUS DECOMPOSITION PRODUCTS:	None

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SECTION 7 - PREVENTIVE MEASURES

PRECAUTIONS FOR SAFE USE AND HANDLING

HANDLING PRECAUTIONS:	Keep away from intense heat, sparks or flame. Avoid contact with eyes, skin, clothing or shoes. Use in well-ventilated area and avoid breathing vapor or mist.
PERSONAL HYGIENE:	Use good personal hygiene. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco products. Clean contaminated clothing, shoes and protective equipment before reuse. Discard contaminated clothing, shoes or protective equipment if they cannot be thoroughly cleaned.
SHIPPING AND STORING PRECAUTIONS:	Keep container tightly closed when not in use and during transport. Store in a cool, dry place. Do not pressurize, cut, heat, weld, grind or expose containers to flame or other sources of ignition. Empty product containers may contain product residue.
SPILL PROCEDURES:	Remove all ignition sources. Stop leak if you can do it without risk. Wear protective equipment specified in section 7, CONTROL MEASURES. Ventilate area and avoid breathing vapor or mist. For large spills, dike far ahead of liquid spill for later disposal. Contain away from surface waters and sewers. Absorb with compatible absorbent material and shovel into closable container for disposal.
WASTE DISPOSAL METHODS:	Dispose in accordance with federal, state, provincial and local regulations.

CONTROL MEASURES

EYE PROTECTION:	Wear protective eyewear. Do NOT wear contact lenses.
PROTECTIVE GLOVES:	Use Neoprene, Nitrile, PVC or equivalent gloves to prevent contact with skin. Do NOT use natural rubber or equivalent gloves.

SECTION 7 - PREVENTIVE MEASURES (Contd.)

CONTROL MEASURES (Contd.)

RESPIRATORY PROTECTION:	Use NIOSH/MSHA-approved respiratory protective equipment when concentration of vapor or mist exceeds applicable exposure limit. A self-contained breathing apparatus (SCBA) and full protective equipment is required for fire emergencies. 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-M1982.
ENGINEERING CONTROLS:	Provide process enclosure or local ventilation needed to maintain concentration of vapor or mist below applicable exposure limits.
OTHER PROTECTIVE EQUIPMENT:	Where spills and splashes are possible, wear appropriate oil-resistant boots, apron or other protective clothing. Clean water should be available in work areas for flushing the eyes and skin.

SECTION 8 - PHYSICAL DATA

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**PHYSICAL STATE,
APPEARANCE AND ODOR:** Viscous liquid, amber, petroleum odor

ODOR THRESHOLD: Not available

SPECIFIC GRAVITY: .8789 (API = 29.5)

DENSITY: 7.318lbs/US gal (860 g/1)

VAPOR DENSITY: Greater than 1 (air = 1)

VAPOR PRESSURE: Less than 0.001 mg Hg at 77°F

BOILING POINT: Greater than 450°F

FREEZING POINT: Not available

EVAPORATION RATE: Less than 1 (ethyl ether = 1)

SOLUBILITY IN WATER: Insoluble

SECTION 9 - OTHER REGULATORY INFORMATION

TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: Not regulated

DOT CLASS: Not regulated

DOT ID NUMBER: Not regulated

TDG CLASSIFICATION: Not regulated

SARA TITLE III: Product does not contain toxic chemicals subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372