



# Material Safety Data Sheet

| WHMIS (Pictograms)                                 | WHMIS (Classification)               | Personal protective equipment |
|--|--------------------------------------|-------------------------------|
| No pictogram (handling and hazard label) required. | Not controlled under WHMIS (Canada). |                               |

## Section 1. Product and Company Identification

|   |   |  |
|---|---|--|
| <b>Product name</b> Power Steering Fluid<br><b>/ Trade name</b> |   | <b>Associated Product's Item Code</b> PWR STR FLD  |
| <b>Synonym</b>  | Mineral oil based hydraulic steering fluid.   | <b>CAS #</b> Mixture, Not applicable   |
| <b>Chemical family</b>  | Organic. Petrochemical.   | <b>Validation date</b> 2012-11-20.   |
| <b>Chemical formula</b>   | Not applicable.   | <b>Print date</b> 2013-01-09.  |
| <b>Manufacturer/Supplier</b>                                    | Recochem Inc.<br>850 Montee de Liesse<br>Montreal, Quebec<br>(514) 341-3550<br>www.recochem.com | <b>In case of emergency</b> Recochem Inc.<br>Communications and Regulatory Affairs<br>Department<br>(905) 878-5544 |
| <b>Material uses</b>  | Consumer products: Power steering fluid   |  |

## Section 2. Hazards identification

|                                       |  |
|---------------------------------------|--|
| <b>Emergency Overview</b>             | NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.<br>No known significant effects or critical hazards. Avoid prolonged contact with eyes, skin and clothing.  |
| <b>Potential Acute Health Effects</b> | <b>See section 11 for more detailed information on health effects and symptoms.</b><br><br>Slightly hazardous by the following route of exposure: of skin contact (irritant), of eye contact (irritant), of inhalation (lung irritant). MAY CAUSE vomiting abdominal cramps and pain |
| <b>Note to Physician</b>              | Not available.   |

## Section 3. Composition, information on ingredients

### Canada

| Name                             | CAS number | Conc. (% w/w) |
|----------------------------------|------------|---------------|
| Hydrotreated paraffinic base oil | 64742-58-1 | 90 - 95       |

There are no other ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Continued on next page



### Section 4. First aid measures

|                           |  |
|---------------------------|--|
| <b>Eye contact</b>        | Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 30 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if symptoms occur.   |
| <b>Skin contact</b>       | In case of contact, immediately flush skin with plenty of water for at least 30 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if symptoms occur.  |
| <b>Inhalation</b>         | Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms occur. If breathing is difficult, give oxygen. |
| <b>Ingestion</b>          | Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.   |
| <b>Notes to physician</b> | No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.   |

### Section 5. Fire-fighting measures

|   |   |
|---|---|
| <b>Products of combustion</b>               | Carbon Dioxide (CO <sub>2</sub> ) & Carbon Monoxide (CO).   |
| <b>Fire-fighting media and instructions</b> | Use an extinguishing agent suitable for the surrounding fire.   |
| <b>Fire Hazards</b>                         | Material supports combustion.<br>If involved in a fire, gases including CO, CO <sub>2</sub> and smoke can be generated.<br>Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion. Upon combustion may produce: Hydrogen Sulfide, Alkyl Mercaptan, Sulfides, Aldehyde. |
| <b>Explosion Hazards</b>                    | Not available.  |

### Section 6. Accidental release measures

|                             |  |
|-----------------------------|--|
| <b>Small spill and leak</b> | Put on appropriate personal protective equipment (see section 8). Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. Wear protective equipment when handling contaminated personnel, equipment, and open containers.  |
| <b>Large spill and leak</b> | Put on appropriate personal protective equipment (see section 8). Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal. |

### Section 7. Handling and Storage

|                 |   |
|-----------------|---|
| <b>Handling</b> | Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking.  |
| <b>Storage</b>  | Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Store and use away from heat, sparks, open flame or any other ignition source. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. |

Continued on next page



## Section 8. Exposure controls/personal protection

**Engineering controls** Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

### Personal protection

**Eyes** Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. Recommended: splash goggles

**Body** Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory** Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

**Hands** Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. >8 hours (breakthrough time): nitrile rubber

### Occupational exposure limits

No exposure limit value known.

## Section 9. Physical and chemical properties

|                                      |                             |                         |  |
|--------------------------------------|-----------------------------|-------------------------|--|
| <b>Physical State and Appearance</b> | Liquid.                     | <b>Odour</b>            | petroleum odour.   |
| <b>Molecular weight</b>              | Not applicable.             | <b>Taste</b>            | Not available.   |
| <b>pH</b>                            | Not applicable.             | <b>Colour</b>           | Amber.   |
| <b>Boiling/condensation point</b>    | >246°C (>474.8°F)           | <b>Volatility</b>       | Not available.   |
| <b>Melting/freezing point</b>        | -42°C (-43.6°F) Pour point. | <b>Evaporation rate</b> | Not available.   |
| <b>Relative density</b>              | 0.863                       | <b>Odour Threshold</b>  | Not available.   |
| <b>Vapor pressure</b>                | <0.013 kPa (<0.1 mm Hg)     | <b>Viscosity</b>        | Kinematic (40°C (104°F)): 0.37 to 0.45 cm <sup>2</sup> /s (37 to 45 cSt) |
| <b>Vapour Density</b>                | Not available.              | <b>Solubility</b>       | Insoluble in water.  |
| <b>VOC content</b>                   | 0 % (w/w)                   | <b>Other Properties</b> | Not available.   |

**The product is:** Non-flammable.

**Auto-ignition temperature** Not available.

*Continued on next page*



|   |   |
|---|---|
| <b>Flash point</b>  | Open cup: 182°C (359.6°F) [Cleveland.]  |
| <b>Flammable limits</b>                                   | Not available.  |
| <b>Fire hazards in the presence of various substances</b> | Material supports combustion.<br>If involved in a fire, gases including CO, CO <sub>2</sub> and smoke can be generated. |

**Section 10. Stability and reactivity**

|  |   |
|--|---|
| <b>Stability</b>                               | The product is stable.  |
| <b>Conditions of instability</b>               | Not available.  |
| <b>Incompatibility with various substances</b> | Reactive or incompatible with the following materials: oxidizing materials and acids.<br>Avoid contamination with oxidizing agents.<br>Keep away from heat. |
| <b>Hazardous decomposition products</b>        | Under normal conditions of storage and use, hazardous decomposition products should not be produced.  |

**Section 11. Toxicological Information****Canada****Acute toxicity**

|                                  |                |        |             |   |
|----------------------------------|----------------|--------|-------------|---|
| Hydrotreated paraffinic base oil | LD50 Dermal    | Rabbit | >2000 mg/kg | - |
|                                  | LD50 Dermal    | Rat    | >2000 mg/kg | - |
|                                  | LD50 Oral      | Rat    | >5000 mg/kg | - |
| <b>Conclusion/Summary</b>        | Not available. |        |             |   |

**Chronic toxicity**

|                           |                |
|---------------------------|----------------|
| <b>Conclusion/Summary</b> | Not available. |
|---------------------------|----------------|

**Carcinogenicity**

|                           |  |
|---------------------------|--|
| <b>Conclusion/Summary</b> | Inhalation of hot oil mist or vapours from hot oil may cause irritation of the upper respiratory tract.<br>Prolonged and repeated contact with skin can cause drying of the skin resulting in irritation and dermatitis. |
|---------------------------|--|

**Mutagenicity**

|                           |                  |
|---------------------------|------------------|
| <b>Conclusion/Summary</b> | : Not available. |
|---------------------------|------------------|

**Teratogenicity**

|                           |                  |
|---------------------------|------------------|
| <b>Conclusion/Summary</b> | : Not available. |
|---------------------------|------------------|

**Reproductive Toxicity**

|                           |                  |
|---------------------------|------------------|
| <b>Conclusion/Summary</b> | : Not available. |
|---------------------------|------------------|

*Continued on next page*



## Section 12. Ecological information

For accidental discharges into the environment, see Section 6: "Accidental Release Measures" for suggested instructions.

**Ecotoxicity** : No known significant effects or critical hazards.

### Canada

#### Aquatic ecotoxicity

| Product/ingredient name          | Result               | Species                    | Exposure |
|----------------------------------|----------------------|----------------------------|----------|
| Hydrotreated paraffinic base oil | Acute LC50 79.6 mg/l | Fish - Brachydanio rerio   | 96 hours |
|                                  | Acute LC50 3.2 mg/l  | Fish - Pimephales promelas | 96 hours |

**Conclusion/Summary** : Not available.

#### Biodegradability

**Conclusion/Summary** : Biodegradable in aerobic conditions

## Section 13. Disposal considerations

**Waste information** The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**Disposal should be in accordance with applicable regional, national and local laws and regulations.**

## Section 14. Transport information

### Canada TDG Classification

**Class** Not a TDG regulated material.

**Subsidiary class**

**Proper Shipping Name**  
(Canada) TDG

**UN number**

**Packing Group**

**Special provisions**

No placard (handling and hazard label) required.

### IMDG Classification

**Class** Not controlled under IMDG.

**Subsidiary class**

**Continued on next page**



Proper Shipping Name

IMDG

UN number

Packing Group

Marine pollutant

Not a pollutant.

Special provisions

No placard (handling and hazard label) required.

United States DOT (Classification)

Class

Not a DOT controlled material (United States).

Subsidiary class

Proper Shipping Name

(United States) DOT

UN number

Packing Group

Special provisions

No placard (handling and hazard label) required.

International Air

Transport Association

(IATA)

For air shipment classification and associated regulations, please refer to the latest edition of IATA Dangerous Goods Regulations.

### Section 15. Regulatory information

WHMIS Classification  
(Canada)

Not controlled under WHMIS (Canada).

Canada Domestic  
Substances List (DSL)  
Status

This product and/ or all of its components are on the DSL.

No placard (handling and hazard label) required.

HCS Classification  
(U.S.A.)

Not regulated.

U.S.A. Regulatory Lists

This product and/ or all of its components are on the TSCA inventory list.

Hazardous Material  
Information System  
(U.S.A.)

Health

1

Flammability

1

Reactivity

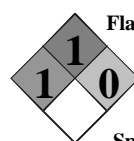
0

Personal protection

B

National Fire  
Protection  
Association  
(U.S.A.)

Health



Flammability

Reactivity

Specific hazard

Continued on next page

**Section 16. Other information**

Validated and verified by Compliance and Technical Information Manager on 2012-11-20 ph.#  
905-878-5544.

Printed 2013-01-09.

**Notice to reader**

*To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.*

*Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.*

***MSDS are available at [www.recochem.com](http://www.recochem.com)***