



Flo-Perm Power Steering Fluid

SAFETY DATA SHEET

SECTION 1: Identification

Product identifier

Product name Flo-Perm Power Steering Fluid
Part No. 92052
Recommended Use Automotive power steering fluid
Restrictions on Use None known

Supplier's details

Name Vulsay Industries Ltd.
Address 35 Regan Road
Brampton, Ontario L7A 1B2
Canada

Telephone 905 846 2200
Fax 905 846 2249

Emergency phone number(s) 24 hours EMERGENCY Phone # - 1-800-468-1760

SECTION 2: Hazard identification

Classification of the substance or mixture Not hazardous according to classification criteria.
GHS label elements Symbol(s) None needed according to classification criteria.
Signal Word None needed according to classification criteria.
Hazard Statement(s) None needed according to classification criteria.
Precautionary Statement(s)
P362+P364 Take off contaminated clothing and wash it before reuse.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P501 Dispose of contents/container in accordance with local regulations
Hazard(s) Not Otherwise Classified Repeated exposure may cause skin dryness or cracking.

SECTION 3: Composition/information on ingredients

Component	Concentration (volume)
Lubricating oils, petroleum, hydrotreated spent (CAS No.: 64742-58-	97 – 99

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SECTION 4: First-aid measures

Description of necessary first-aid measures

IF INHALED:	Remove person to fresh air and keep comfortable for breathing. Get medical attention, if needed.
IF ON SKIN:	Wash with plenty of soap and water. Get medical attention, if needed.
IF IN EYES:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention, if needed.
IF SWALLOWED:	Immediately call a POISON CENTER or doctor/physician.

Most important symptoms/effects, acute and delayed No information on significant adverse effects.

Indication of Immediate Medical Attention and Special Treatment Needed Treat symptomatically and supportively.

SECTION 5: Fire-fighting measures

Suitable extinguishing media

Carbon dioxide, regular foam, dry chemical, water spray, or water fog. Water or foam may cause frothing. Do not use high pressure water streams.

Specific hazards arising from the chemical

Avoid friction, static electricity, and sparks

Special protective actions for fire-fighters

Wear full protective fire fighting gear including self-contained breathing apparatus (SCBA) for protection against possible exposure.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

: Isolate area. Keep unnecessary and unprotected personnel from entering the area. Refer to Section 7, Handling, for additional precautionary measures. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection. In case of spills, beware of slippery floors and surfaces.

Environmental precautions

Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

Methods and materials for containment and cleaning up

Remove all ignition sources. Do not touch or walk through spilled product. Stop leak if you can do it without risk. Wear protective equipment and provide engineering controls as specified in Section 8: Exposure Controls/Personal Protection. Isolate hazard area. Keep unnecessary and unprotected personnel from entering.

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Ventilate area and avoid breathing vapor or mist. Contain spill away from surface water and sewers. Contain spill as a liquid for possible recovery, or sorb with compatible sorbent material and shovel with a clean, spark proof tool into a sealable container for disposal. Additionally, for large spills: Dike far ahead of liquid spill for collection and later disposal.

SECTION 7: Handling and storage

Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Hygiene measures : Do not eat, drink or smoke when using this product. Wash affected areas thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed when not in use and during transport. Store containers in a cool, dry place. Do not pressurize, cut, weld, braze, solder, drill, or grind containers. Keep containers away from flame, sparks, static electricity, or other sources of ignition. Empty product containers may retain product residue and can be dangerous.

Incompatible products

Strong oxidizing materials.

SECTION 8: Exposure controls/personal protection

Control parameters

Appropriate engineering controls

General ventilation is sufficient in most cases. If general ventilation is not sufficient, use local exhaust ventilation.

Individual protection measures, such as personal protective equipment (PPE)

Personal protective equipment should be selected based upon the conditions under which this material is used. A hazard assessment of the work area for PPE requirements should be conducted by a qualified professional pursuant to regulatory requirements. The following PPE should be considered the minimum required: safety glasses, lab coat or apron, gloves.

Pictograms



Eye/face protection

Wear safety glasses or chemical goggles

Skin protection

Wear protective gloves

Body protection

Wear protective clothing such as apron is necessary

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Respiratory protection

No respiratory protection is normally required. Use NIOSH-certified P- or R- series particulate filter and organic vapor cartridges when concentration of vapor or mist exceeds applicable exposure limits. Protection provided by air purifying respirators is limited. Do not use N-rated respirators. 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. Consult a qualified Industrial Hygienist or Safety Professional for respirator selection guidance.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.)	Amber liquid
Odor	Petroleum odor
Odor threshold	No data available.
pH	Not applicable
Melting point/freezing point	No data available
Initial boiling point and boiling range	129 °C
Flash point	165 °C
Evaporation rate	No data available
Flammability (solid, gas)	Not applicable
Upper/lower flammability limits	No data available
Vapor pressure	<0.1 mm Hg @20° C
Vapor density	No data available
Relative Density (water = 1)	0.870 @20° C
Solubility	Not miscible in water
Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature	No data available
Decomposition temperature	No data available.
Viscosity	>20.5 mm ² /s @ 104°F (40°C)
Explosive properties	No data available.
Oxidizing properties	No data available.

SECTION 10: Stability and reactivity

Reactivity

Not reactive under normal conditions

Chemical stability

Stable

Possibility of hazardous reactions

Hazardous polymerization will not occur

Conditions to avoid

Avoid sparks, flames, and other sources of ignition

Incompatible materials

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Keep away from oxidizing materials

Hazardous decomposition products

Carbon dioxide, carbon monoxide, fume

SECTION 11: Toxicological information

Information on toxicological effects

Lubricating oils, petroleum, hydrotreated spent (64742-58-1)

Dermal LD50 Rabbit >4480 mg/kg; Oral LD50 Rat >2000 mg/kg

Skin corrosion/irritation

Prolonged or repeated skin contact may cause drying, cracking, redness, itching, and/or swelling (dermatitis).

Serious eye damage/irritation

No information on significant adverse effects.

Respiratory or skin sensitization

Not classified

Germ cell mutagenicity

No data available.

Carcinogenicity

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

Reproductive toxicity

No epidemiological data is available for this product.

STOT-single exposure

No data available

STOT-repeated exposure

No data available

Aspiration hazard

Not classified

Additional information

SECTION 12: Ecological information

Toxicity

Toxic to aquatic life



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Lubricating oils, petroleum, hydrotreated spent (64742-58-1)	
Duration/Test/Species	Concentration/Conditions
96 Hr LC50 Brachydanio rerio	79.6 mg/L [semi-static]
96 Hr LC50 Pimephales promelas	3.2 mg/L [semi-static]

Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Results of PBT and vPvB assessment	No data available
Other adverse effects	No data available.

SECTION 13: Disposal considerations

Disposal of the product

DISPOSAL AND WASTE TREATMENT: Avoid release to the environment. Provincial and/or federal regulations may require that environmental and/or other agencies be notified of a spill incident. Spill area must be cleaned and restored to original condition, or to the satisfaction of authorities. Dispose of contents/container, in a safe manner, to appropriate waste disposal facility, in accordance with local/regional/national/international regulations.

SECTION 14: Transport information

Canadian TDG (Transportation of Dangerous Goods):	Not regulated
DOT (US):	Not regulated

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

Volatile Organic Compounds (As Regulated)

Negligible; As per 40 CFR Part 51.100 (s)

Federal Regulations

SARA 302/304

Component Analysis

Based on the ingredient(s) listed in SECTION 3, this product does not contain any "extremely hazardous substances" listed pursuant to Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) Section 302 or Section 304 as identified in 40 CFR Part 355, Appendix A and B.



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SARA 311/312 Hazardous Categories

Acute Health: Yes **Chronic Health:** Yes **Fire:** No
Reactive: No

SARA Section 313

This product does not contain "toxic" chemical(s) subject to the requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR Part 372.

Component Analysis

This product does not contain any "toxic" chemical subject to the requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR Part 372.

CERCLA Component Analysis

Based on the ingredient(s) listed in Section 3, this product does not contain any "hazardous substance" listed under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) in 40 CFR Part 302, Table 302.4.

Component Analysis

Component	CAS #	TSCA
Lubricating oils, petroleum, hydrotreated spent	64742-58-1	Yes

U.S. State Regulations

None of this product's components are listed on the state lists from CA, MA, MN, NJ or PA.
No components are listed under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65).

Canadian Regulations

Component Analysis

Component	CAS #	CAN
Lubricating oils, petroleum, hydrotreated spent	64742-58-1	DSL

Canadian Domestic Substances List (DSL)

All ingredients are listed on the DSL/NDSL

Toxic Substances Control Act (TSCA) Inventory

All ingredients are listed on the TSCA inventory

SECTION 16: Other information

SDS Prepared By: Quality Assurance Department

Phone #: 905 846 2200

Preparation date: June 06, 2017

Revision #: First Issue



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Disclaimer

The recommendations and data presented herein are based on sources considered to be reliable. However, no warranty is expressed or implied regarding the accuracy of the data or the results obtained from the use of this information or the use of product. 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.