



MATERIAL SAFETY DATA SHEET

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MSDS: POWER STEERING/HYDRAULIC FLUID

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

POWER STEERING/HYDRAULIC FLUID

Synonyms:

CHAMPION® POWER STEERING PLUS STOP LEAK

Company Identification

Champion Brands, L.L.C., 1001 Golden Drive, Clinton, MO 64735

PHONE: 800-821-5693 WEBSITE: www.championbrands.com

CAS Registry Number	Not Applicable
Synonyms	None
Generic/Chemical Name	Mixture
Product Type	Petroleum Based Lubricating Oil
Preparation Date	April 10, 2008

Transportation Emergency Response

CHEMTREC: (800) 424-9300

Product Information

Product Information and MSDS Requests: (800) 821-5693 and www.championbrands.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS	EU	WHMIS Reg?	%wt
Mineral Oil	Mixture	Not controlled under DSD (Europe)	No	94 - 100
Alkyl phenol	Proprietary	N; R50/53	No	<1
Alkoxyated long-chain alkyl amine	Proprietary	Xn; R22, C; R34, R43, R52/53	Yes	<1
Phosphorous acid	10294-56-1	Xn; R22, C; R35	Yes	<1
Alkyl acid	Proprietary	C; R34,	Yes	<1
Alkyl alkoxy amine	Proprietary	C; R34, N; R50/53	No	<1
Long-chain alkyl dithiothiadiazole	Proprietary	R34	No	<1

3. HAZARD IDENTIFICATION

CONTAINS INGREDIENTS CONSIDERED HAZARDOUS. SEE SECTIONS 8 AND 11 FOR MORE INFORMATION.

KEEP OUT OF REACH OF CHILDREN!

Primary Hazards and Critical Effects: WARNING! CAUSES EYE IRRITATION.

Environmental Hazards: Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Hazardous Material Information System (U.S.A.): Health: 1 Flammability: 1 Reactivity: 0

4. FIRST AID MEASURES

Eye: No specific first aid measures are required. As a precaution, remove contact lenses, if worn, and flush eyes with water.

Skin: No specific first aid measures are required. As a precaution, remove clothing and shoes if contaminated. To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse.

Ingestion: No specific first aid measures are required. Do not induce vomiting. As a precaution, get medical advice.

Inhalation: No specific first aid measures are required. If exposed to excessive levels of material in the air, move the exposed person to fresh air. Get medical attention if coughing or respiratory discomfort occurs.

5. FIRE FIGHTING MEASURES

FIRE CLASSIFICATION:

OSHA Classification (29 CFR 1910.1200): Not classified by OSHA as flammable or combustible.

NFPA RATINGS: Health: 1 Flammability: 1 Reactivity: 0

FLAMMABLE PROPERTIES:

Flashpoint: >200 °C (>392 °F)

Autoignition: NDA

Flammability (Explosive) Limits (% by volume in air): Lower: NA Upper: NA

EXTINGUISHING MEDIA: Use water fog, foam, dry chemical or carbon dioxide (CO₂) to extinguish flames.

PROTECTION OF FIRE FIGHTERS:

Fire Fighting Instructions: This material will burn although it is not easily ignited. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

Combustion Products: Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion.

6. ACCIDENTAL RELEASE INFORMATION

Protective Measures: Eliminate all sources of ignition in vicinity of spilled material.

Spill Management: Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible absorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.

Reporting: Report spills to local authorities and/or the U.S. Coast Guard's National Response Center at (800) 424-8802 as appropriate or required.

7. HANDLING AND STORAGE

Precautionary Measures: KEEP OUT OF REACH OF CHILDREN! Avoid contact with eyes. Do not ingest. Avoid breathing mist. Keep container closed. Wash hands if contact due to handling.

General Handling Information: Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

Static Hazard: Should not accumulate static charge if used according to label directions.

Container Warnings: Container is not designed to contain pressure. Empty containers should be completely drained, closed, and disposed of properly.

8. EXPOSURE CONTROL/PERSONAL PROTECTIVE EQUIPMENT

GENERAL CONSIDERATIONS:

Consider the potential hazards of this material (see Sections 3, 11, 12, 15), and other substances in selecting personal protective equipment. The user should read and understand all instructions and hazards on the products label before use.

ENGINEERING CONTROLS:

Use in a well-ventilated area.

PERSONAL PROTECTIVE EQUIPMENT

Eye/Face Protection: No special eye protection is normally required. Where splashing is possible, wear safety glasses with side shields as a good safety practice.

Skin Protection: No special protective clothing is normally required. Where splashing is possible, select protective clothing depending on operations conducted, physical requirements and other substances in the workplace. Suggested materials for protective gloves include: 4H (PE/EVAL), Nitrile Rubber, Silver Shield, Viton.

Respiratory Protection: No respiratory protection is normally required.

If user operations generate an oil mist, determine if airborne concentrations are below the occupational exposure limit for mineral oil mist. If not, wear an approved respirator that provides adequate protection from the measured

concentrations of this material. For air-purifying respirators use a particulate cartridge.

Use a positive pressure air-supplying respirator in circumstances where air-purifying respirators may not provide adequate protection.

Occupational Exposure Limits:

Ingredient Name & CAS#	OEL U.S.A	OEL Canada	OEL Europe
Mineral Oil CAS# Mixture	ACGIH (United States) TWA: 5 mg/m ³ STEL: 10 mg/m ³ OSHA (United States) TWA: 5 mg/m ³	TWA: 5 mg/m ³ STEL: 10 mg/m ³	EH40 (UK) (Europe). TWA: 5 mg/m ³ 8 hrs.

9. PHYSICAL AND CHEMICAL PROPERTIES

Attention: the data below are typical values and do not constitute a specification.

Appearance and Odor: Amber, slight oil odor

pH: NA

Vapor Pressure: <0.01 mmHg @ 100 °F

Vapor Density (Air = 1): >1

Boiling Point: >250 °F @ 760 mmHg

Solubility: Soluble in hydrocarbons; insoluble in water

Freezing Point: NA

Melting Point: NA

Specific Gravity: 0.878 @ 15.6 °C / 15.6 °C

Viscosity: 45.2 cSt @ 40°C (104°F)

10. STABILITY AND REACTIVITY

Chemical Stability: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Incompatibility With Other Materials: May react with strong oxidizing agents, such as chlorates, nitrates, peroxides.

Hazardous Decomposition Products: Hydrogen Sulfi de (Temperatures >149 °F (65 °C))

Hazardous Polymerization: Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

IMMEDIATE HEALTH EFFECTS

Eye Irritation: Eye irritation hazard based on evaluation of data for similar materials or product components.

Skin Irritation: No skin irritation based on evaluation of data for similar materials or product components.

Skin Sensitization: No product toxicology data available.

Acute Dermal Toxicity: The acute dermal toxicity hazard is based on evaluation of data for similar materials or product components.

Acute Oral Toxicity: Not determined.

Acute Inhalation Toxicity: Inhalation of mist vapors at elevated temperatures may cause respiratory irritation.

ADDITIONAL TOXICOLOGY INFORMATION:

This product contains mineral oils which may be refined by various processes including severe solvent extraction, severe hydrocracking, or severe hydrotreating. None of the oils requires a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as: carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B). These oils have not been classified by the American Conference of Governmental Industrial Hygienists (ACGIH) as: confirmed human carcinogen (A1), suspected human carcinogen (A2), or confirmed animal carcinogen with unknown relevance to humans (A3).

12. ECOLOGICAL INFORMATION

ECOTOXICITY

May be harmful to aquatic organisms. Consequently, this material should be kept out of sewage and drainage systems and all bodies of water.

ENVIRONMENTAL FATE

This material is not expected to be readily biodegradable.

13. DISPOSAL INFORMATION

Oil collection services are available for used oil recycling or disposal. Place contaminated materials in containers and dispose of in a manner consistent with applicable regulations. Contact your sales representative or local environmental or health authorities for approved disposal or recycling methods. (See B.C. Reg. GY/92 Waste Management Act; R.R.O. 1990, Reg. 347 General-Waste Management; C.C.S.M.c. W40 The Waste Reduction and Prevention Act; N.S. Reg. 51/95 and N.S. Reg. 179/96 for examples of Provincial legislation.)

14. TRANSPORTATION INFORMATION

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

U.S. Department of Transportation

NOT REGULATED AS A HAZARDOUS MATERIAL FOR TRANSPORTATION UNDER 49 CFR

Land transport ADR/RID (cross-border)

NOT REGULATED AS A HAZARDOUS MATERIAL FOR TRANSPORTATION UNDER ADR/RID

Maritime transport IMDG:

NOT REGULATED AS A HAZARDOUS MATERIAL FOR TRANSPORTATION UNDER IMO/IMDG

Air transport ICAO-TI and IATA-DGR:

NOT REGULATED AS A HAZARDOUS MATERIAL FOR TRANSPORTATION UNDER ICAO/IATA

15. REGULATORY INFORMATION

EU Regulations

Hazard: Irritant, Dangerous for the environment

Risk Phrases

R36- Irritating to eyes

R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases

S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Additional Warning Phrases : Not applicable.

US Regulations

SARA 313 No chemicals are present above reporting threshold.

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: immediate health hazard, Delayed health hazard.

State

California prop. 65: This product does not contain ingredients which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute.

New Jersey

Under the New Jersey Right-to-Know Act L. 1983 Chapter 315 N.J.S.A. 34:5A-1 et. seq., the product is to be identified as follows: PETROLEUM OIL (Lubricating oil)

Canadian Regulations

WHMIS (Classification) : Class D-2B: Material causing other toxic effects (TOXIC).

Chemical Inventory Status:

United States: All components on TSCA Inventory

Europe : All components on EINECS

Australia : One or more components not found on NICNAS

China: All components on IECSC

Canada: All components on DSL

Japan : All components on METI

Korea : All components on ECL

Philippines: All components on PICCS

16. DISCLAIMER

REVISION STATEMENT: Revision updates many sections and the MSDS should be read in its entirety.

ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

TLV	-	Threshold Limit Value	TWA	-	Time Weighted Average
STEL	-	Short-term Exposure Limit	PEL	-	Permissible Exposure Limit
CHA	-	Champion LLC	CAS	-	Chemical Abstract Service Number
NDA	-	No Data Available	NA	-	Not Applicable
<=	-	Less Than or Equal To	>=	-	Greater Than or Equal To

Prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200) and the ANSI MSDS Standard (Z400.1) by Champion LLC, 1001 Golden Drive, Clinton, Missouri 64735.

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