



Material Safety Data Sheet

Section 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: BOSS Power Transmission Fluid 10W, 30W, 40W & 50W/TO-4 Transmission Fluid

Chemical Name: Petroleum Oil Blend

Supplier:

Boss Lubricants Ltd.

112, 6303-30 Street SE

Calgary, Alberta

T2C 1R4 (800) 844-9457

Issue Date: June 22, 2015

Supersedes Issue Date: January 1, 2012

Emergency Phone Number:

CHEMTREC: (800) 424-9300

Business: (800) 844-9457

Fax #: (403) 279-2272

Section 2: HAZARDS IDENTIFICATION

Eye: Not expected to cause prolonged or significant eye irritation.

Skin: Contact with the skin is not expected to cause prolonged or significant irritation. Not expected to be harmful to internal organs if absorbed through the skin.

Ingestion: Not expected to be harmful if swallowed.

Inhalation: Contains a petroleum-based mineral oil. May cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of oil mist at airborne levels above the recommended mineral oil mist exposure limit.

This material is not known to contain any chemical listed as a carcinogen or suspected carcinogen by OSHA, IARC or the National Toxicology Program (NTP) at a concentration greater than 0.1 %.

NFPA Code: Health: 0 Fire: 1 Reactivity: 0 WMIS System: Health: 1 Flammability: 1 Reactivity: 0

Section 3: Composition / Information on Ingredients

Components	Amount	Limit/ Qty.	AGENCY/TYPE
Lubricating Base Oil,	> 90.00-94.00%	5 mg/m3 (mist)	ACGIH TWA
Severely refined Petroleum Distillate:		10 mg/m3 (mist)	ACGIH STEL
		5 mg/m3 (mist)	OSHA PEL
Additives	6 - 10.0%		

* The Base Oil may be a mixture of any of the following: 64742-58-1, 64741-88-4, and 64742-54-7

Composition Comment: All the components of this material are on the Toxic Substances Control Act Chemical Substances Inventory.

This product fits the ACGIH definition for mineral oil mist. The ACGIH TLV is 5 mg/m3, the OSHA PEL is 5 mg/m3.

Section 4: First Aid Measures

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Oxygen should only be administered by qualified personnel. Someone should stay with victim. Get medical attention if breathing difficulty persists.

Eyes: If irritation or redness from exposure to vapor develops, move away from exposure into fresh air. Upon contact, immediately flush eyes with plenty of lukewarm water, holding eyelids apart, for 15 minutes. Get medical attention.

Skin: Remove affected clothing and shoes. Wash skin thoroughly with soap and water. Get medical attention if irritation or pain develops or persists. If product is injected under pressure into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, a physician should immediately evaluate the individual as a medical emergency. Wash contaminated clothing before reuse.

Ingestion: Do NOT induce vomiting. Get medical attention. If spontaneous vomiting occurs, keep head below hips to avoid breathing the product into the lungs. Never give anything by mouth to an unconscious person.



Notes to Physicians: Treat symptomatically and supportively. Treatment may vary with condition of victim and specifics of incident.
Call 1-800-468-1760 for additional information.

Section 5: FIRE AND EXPLOSION HAZARDS

Flash Point, C: 210-227
Upper Flammable Limit: Not Determined
Lower Flammable Limit: Not Determined
Extinguishing Media: CO2 dry chemical: foam: water spray: water fog
Special Firefighting Procedures: Cool containers with H2O and remove from fire exposure
Unusual fire & Explosion Hazards: Empty containers could contain flammable vapours

Section 6: Accidental Release Measures

Spill procedures: Wear chemical splash goggles. Wear rubber boots.
Prevent entry into sewers and waterways. Pickup Free liquid for recycle/disposal.
Absorb small amounts of inert material for disposal.

Section 7: Handling and Storage

Handling Procedures: Keep away from sparks or flame. Where flammable mixtures may be present, equipment safe for such locations should be used. Use clean tools and explosion-proof equipment. When large volumes of product, metal containers, including trucks and tank cars, should be grounded and bonded. This product has a low vapor pressure and is not expected to present an inhalation hazard under normal temperatures and pressures. However, when aerosolizing, misting, or heating this product, do not breathe vapor or mist. Use in a well ventilated area. Avoid contact with eyes, skin, clothing, and shoes.
Shipping and Storing: 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 heat, flame, sparks, static electricity, or other sources of ignition. Empty product containers may retain product residue and can be dangerous.

Section 8: Exposure Controls / Personal Protection

Ventilation Procedure: Use in a well-ventilated area. If user operations generate an oil mist, use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below the recommended mineral oil mist exposure limits.
Respiratory: No respiratory protection 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; and in Canada with CSA Standard Z94.4. Consult a qualified Industrial Hygienist or Safety Professional for respirator selection guidance.
Eyes/Face: Where eye contact is likely, wear safety glasses.
Skin: Where skin contact is likely, wear neoprene, nitrile, or equivalent protective gloves; use of natural rubber or equivalent gloves is not recommended. To avoid prolonged or repeated contact where spills and splashes are likely, wear appropriate chemical-resistant faceshield, boots, apron, coveralls, long sleeve shirts, or other protective clothing.
Personal Hygiene: Use good personal hygiene. Wash thoroughly with soap and water after handling product and before eating, drinking, or using tobacco products. Clean affected clothing, shoes, and protective equipment before reuse. Discard affected clothing, shoes, and/or protective equipment if they cannot be thoroughly cleaned. Discard leather articles, such as shoes, saturated with these products.
Other Personal Protective Equipment: Where spills and splashes are likely, facilities storing or using this product should be equipped with an emergency eyewash and shower, both equipped with clean water, in the immediate work area.

Section 9: Physical & Chemical Properties

Appearance:	Amber liquid	Odor:	Mild hydrocarbon odor
Vapour Pressure:	> 1mm Hg	Specific Gravity:	< 1.00 @ 15.6° C
Water Solubility:	Slight	Percent Volatile:	Not Determined
Vapour Density:	Not Determined	Evaporation Rate:	Not Determined

Section 10: Chemical Stability & Reactivity Information

Stability:	Stable under normal temperatures and pressures.
Incompatibility:	Avoid acids and oxidizing agents.
Reactivity:	Polymerization is not known to occur under normal temperature and pressures. Not reactive with water.
Hazardous Decomposition Products:	None under normal temperatures and pressures. See also SECTION 5: HAZARDOUS COMBUSTION PRODUCTS.
Conditions to Avoid:	Avoid sparks of flame when not in use.

Section 11: Toxicological Information

Component Analysis - LD50/LC50

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

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

Acute Effects: May irritate the eyes and skin. May be harmful if swallowed. May cause throat irritation, nausea, vomiting, and diarrhea. Breathing product into the lungs during ingestion or vomiting may cause lung injury and possible death.

Component Carcinogenicity

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

ACGIH: A4 - Not Classifiable as a Human Carcinogen (highly & severely refined); A2 - Suspected Human Carcinogen (poorly & mildly refined, related to Oil mist, mineral)

Sensitization: Based on best current information, there is no known human sensitization associated with this product.

Mutagenicity: Experimental evidence suggests that this product does not cause mutagenesis.

Reproductive Toxicity: Based on best current information, there is no known teratogenicity associated with this product.

Teratogenicity: Based on best current information, there is no known teratogenicity associated with this product.

Section 12: Ecological Information

Ecotoxicity: No information available.

Component Analysis - Ecotoxicity - Aquatic Toxicity

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

Duration/Test/Species	Concentration/Conditions	Notes
96 Hr LC50 Brachydanio rerio	79.6 mg/L [semi-static]	
96 Hr LC50 Pimephales promelas	3.2 mg/L [semi-static]	

Petroleum distillates, hydrotreated heavy paraffinic (64742-54-7)

Duration/Test/Species	Concentration/Conditions	Notes
96 Hr LC50 Oncorhynchus mykiss	>5000 mg/L	

Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (68649-42-3)

Duration/Test/Species	Concentration/Conditions	Notes
96 Hr LC50 Pimephales promelas	1.0-5.0 mg/L [static]	
96 Hr LC50 Pimephales promelas	10.0-35.0 mg/L [semi-static]	

Persistence/Degradability: May cause long-term adverse effects in the aquatic environment.

Bioaccumulation/Accumulation: No data available for this product.

Mobility in Environmental Media: Product is expected to float on water and have low mobility through soil.



Other Adverse Effects: No additional information available.

Section 13: Disposal Considerations

Disposal Instructions: Dispose in accordance with federal, state, provincial, and local regulations. Regulations may also apply to empty containers. The responsibility for proper waste disposal lies with the owner of the waste. Contact BOSS Lubricants regarding proper recycling or disposal.

US EPA Waste Number & Descriptions: This product if discarded, is not expected to be a characteristic or listed hazardous waste. If recycled in the USA, this product can be managed in accordance with the used oil exemption under 40 CFR Part 279. Processing, use, or contamination by the user may change the waste code(s) applicable to the disposal of this product.

Section 14: Transportation Information

Emergency Response Guide Number: Not applicable.
DOT Shipping Name: Not regulated as a hazardous material.
TDG Shipping Name: Not regulated as a dangerous good.
IATA Information: No Classification Assigned.
IMDG Information: No Classification Assigned

Section 15: Regulatory Information

SARA 311 CATEGORIES:

- | | |
|---------------------------------------|----|
| 1. Immediate (Acute) Health Effects: | NO |
| 2. Delayed (Chronic) Health Effects: | NO |
| 3. Fire Hazard: | NO |
| 4. Sudden Release of Pressure Hazard: | NO |
| 5. Reactivity Hazard: | NO |

NEW JERSEY RTK CLASSIFICATION: 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

WHMIS CLASSIFICATION: This product is not considered a controlled product according to the criteria of the Canadian Controlled Products Regulations.

Section 16: Other Information

Label/Other Information: Not available.
Revision Information: Reformatted; Updated

Disclaimer

User assumes all risks incident to the use of this (these) product(s). To the best of our knowledge, the information contained herein is accurate. However, BOSS Lubricants assumes no liability whatsoever for the accuracy or completeness of the information contained herein. No representations or warranties, either express or implied, or merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to information or the product to which information refers. The data contained on this sheet apply to the product(s) as supplied to the user.