



BOSS Universal Tractor Fluid SDS Safety Data Sheet

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Material Name:	BOSS Universal Tractor Fluid
Synonyms:	Petroleum oil; Lube oil; Petroleum hydrocarbon; Lubricant.
Product Use Recommended Use:	A universal tractor fluid for power shift transmissions, final drives, and hydraulics. If this product is used in combination with other products, refer to the Safety Data Sheet for those products.
Restrictions on Use:	None known.
MANUFACTURER/SUPPLIER	IMPORTER/DISTRIBUTOR
Boss Lubricants	Emergency Phone Number(s)
112, 6303 30 St. SE	Business: (800) 844-9457
Calgary, AB	Fax #: (403) 279-2272
T2C 1R4	www.bosslubricants.com
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Section 2: HAZARDS IDENTIFICATION

Classification in accordance with Schedule 1 of Canada's Hazardous Products Regulations (HPR) (SOR/2015-17) and paragraph (d) of 29 CFR 1910.1200 in the United States: None needed 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
<u>Precautionary Statement(s)</u>	
Prevention:	None needed according to classification criteria.
Response:	None needed according to classification criteria.
Storage:	None needed according to classification criteria.
Disposal:	Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) Not Otherwise Classified: Repeated exposure may cause skin dryness or cracking. When aerosolizing, misting, or heating these products, high concentrations of generated vapor or mist may irritate the respiratory tract (nose, throat, and lungs).

NFPA Ratings

Health: 1 Fire: 1 Reactivity: 0

Hazard Scale

0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe



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Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component Name	Percent
64742-58-1	Lubricating oils, petroleum, hydrotreated spent	80-90
64742-54-7	Petroleum distillates, hydrotreated heavy paraffinic	3-7
Not Available	Mineral Oil	3-7
68649-42-3	Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	1-2
Proprietary*	Calcium long-chain alkaryl sulfonate	0.5-1.5

*CBI number not needed as this product is not considered hazardous

Section 4: FIRST AID MEASURES

Inhalation:	Remove person to fresh air and keep comfortable for breathing. Get medical attention if needed.
Skin:	Wash with plenty of soap and water. Get medical attention if needed.
Eyes:	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Get medical attention if needed.
Ingestion:	Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.
<u>Most Important Symptoms/Effects</u>	
Acute:	No information on significant adverse effects.
Delayed:	Repeated exposure may cause skin dryness or cracking.
Indication of any immediate medical attention and special treatment needed:	Treat symptomatically and supportively. Treatment may vary with condition of victim and specifics of incident.

Section 5: FIRE FIGHTING MEASURES

Extinguishing Media Suitable	Carbon dioxide, regular foam, dry chemical, water spray, water fog, Water or foam
Extinguishing Media:	may cause frothing.
Unsuitable Extinguishing Media:	Do not use high pressure streams.
Special Hazards Arising from the Chemical:	Negligible fire hazard.
Hazardous Combustion Products:	Burning may produce aldehydes, hydrogen sulfide, alkyl mercaptans, sulfides, calcium oxides, nitrogen oxides, oxides of phosphorus, sulfur oxides, zinc oxides, carbon monoxide and unidentified organic compounds.
Fire Fighting Measures:	Move container from fire area if it can be done without risk. Keep storage containers cool with water spray. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.
Special Protective Equipment and Precautions for Firefighters:	A positive-pressure, self-contained breathing apparatus (SCBA) and full-body protective equipment are required for fire emergencies.



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Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:	Wear personal protective clothing and equipment, see Section 8.
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. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. 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:	Keep away from sparks or flame. Where flammable mixtures may be present, equipment safe for such locations should be used. Use clean tools. When transferring large volumes of product, metal containers, including trucks and tank cars, should be grounded and bonded. These products have a low vapor pressure and are not expected to present an inhalation hazard under normal temperatures and pressures. However, when aerosolizing, misting, or heating these products, do not breathe vapor or mist. Use in a well-ventilated area. Avoid contact with: Skin, eyes, clothing, shoes. Wash thoroughly after handling. Do not eat, drink, or smoke when using this product. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use Personal Protective equipment as required.
Conditions for Safe Storage, including any Incompatibilities:	None needed according to classification criteria. 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 Materials:	Avoid acids and oxidizing agents.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits:	Canada, ACGIH, OSHA, and NIOSH have not developed exposure limits for any of this product's components.
ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI):	There are no biological limit values for any of this product's components.





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Engineering Controls: Provide general ventilation. Where adequate general ventilation is unavailable, use process enclosures, local exhaust ventilation, or other engineering controls.

Individual Protection Measures, such as Personal Protective Equipment

Eye/face protection: Wear safety glasses. Additional protection like goggles, face shields, or respirators may be needed dependent upon anticipated use and concentrations of mists or vapors. Eye wash fountain and emergency showers are recommended. Contact lens use is not recommended.

Respiratory Protection: A respiratory protection program which meets USA's OSHA General Industry Standard 29 CFR 1910.134 or Canada's CSA Standard Z94.4-M1982 requirements must be followed whenever workplace conditions warrant a respirator's use. Consult a qualified Industrial Hygienist or Safety Professional for respirator selection guidance.

Glove Recommendations: No skin protection is normally required. Where prolonged or repeated skin contact is likely, wear neoprene, nitrile (4 mil minimum), PVC (polyvinyl chloride), or equivalent protective gloves; use of natural rubber or equivalent gloves is not recommended. When product is heated and skin contact is likely, wear heat-resistant gloves, boots, and other protective clothing. To avoid prolonged or repeated contact where spills and splashes are likely, wear appropriate chemical-resistant face shield, boots, apron, coveralls, long sleeve shirts, or other protective clothing.

Protective Materials: 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, gloves, lab coat or apron.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Amber liquid	Physical State:	Liquid
Odor:	Petroleum	Color:	Amber
Odor Threshold:	Not available	Ph:	Not available
Melting Point:	Not available	Boiling Point:	246 °C (475 °F)
Boiling Point Range:	Not available	Freezing point:	Not available
Evaporation Rate:	Not available	Flammability (solid, gas):	Not available
Autoignition Temperature:	Not available	Flash Point:	200 °C (392 °F)
Lower Explosive Limit:	Not available	Decomposition temperature:	Not available
Upper Explosive Limit:	Not available	Vapor Pressure:	Not available
Vapor Density (air=1):	Not available	Specific Gravity (water=1):	0.87
Volatility:	Negligible; As per 40 CFR 51.100(s)	Partition coefficient: noctanol/water	Not available
Viscosity:	>20.5 mm ² /s @40°C (104°F)	Kinematic viscosity:	Not available
Solubility (Other):	Not available	Density:	870 g/L (7.3 lb/US gal)
Molecular Weight:	Not available	Water Solubility:	(Insoluble)





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Section 10: STABILITY AND REACTIVITY

Reactivity:	No reactivity hazard is expected.
Chemical Stability:	Stable under normal temperatures and pressures.
Possibility of Hazardous Reactions:	Will not polymerize.
Conditions to Avoid:	Avoid sparks, flame, and other sources of ignition.
Incompatible Materials:	Avoid acids and oxidizing agents.
Hazardous decomposition products:	None under normal temperatures and pressures.

Section 11: TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Inhalation:	No information on significant adverse effects.
Skin Contact:	Prolonged or repeated exposure may cause skin dryness or cracking.
Eye Contact:	No information on significant adverse effects.
Ingestion:	May be harmful if swallowed.

Acute and Chronic Toxicity

Component Analysis - LD50/LC50: The components of this material have been reviewed in various sources and the following selected endpoints are published.

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

Oral LD50:	Rat >2000 mg/kg;
Dermal LD50:	Rabbit >4480 mg/kg;
Inhalation LC50:	Rat 2062 ppm 4 h (related to Paraffin oils)

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

Oral LD50:	Rat >15 g/kg (no deaths occurred);
Dermal LD50:	Rabbit >5000 mg/kg (no deaths occurred)

Product Toxicity Data

Acute Toxicity Estimate

Dermal:	>2000mg/kg
Oral:	>2000mg/kg
Immediate Effects:	No information on significant adverse effects.
Delayed Effects:	No information on significant adverse effects.
Irritation/Corrosivity Data:	May cause slight skin and respiratory irritation.
Respiratory Sensitization:	No information for the product.
Dermal Sensitization:	No information for the product.
Component Carcinogenicity:	None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.
Germ Cell Mutagenicity:	No information for the product.
Tumorigenic Data:	No information available for the product.
Reproductive Toxicity:	No information available for the product.
Specific Target Organ Toxicity - Single Exposure:	No information on significant adverse effects.
Specific Target Organ Toxicity - Repeated Exposure:	No information on significant adverse effects.



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Aspiration hazard: No data available.

Medical Conditions Aggravated by Exposure: Individuals with pre-existing respiratory tract (nose, throat, and lungs), eye, and/or skin disorders may have increased susceptibility to the effects of exposure.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: Harmful to aquatic life with long lasting effects.

Component Analysis - Aquatic Toxicity

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

Fish: LC50 96 h Brachydanio rerio 79.6 mg/L [semi-static];
LC50 96 h Pimephales promelas 3.2 mg/L [semi-static]

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

Fish: LC50 96 h Oncorhynchus mykiss >5000 mg/L

Invertebrate: EC50 48 h Daphnia magna >1000 mg/L IUCLID

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

Fish: LC50 96 h Pimephales promelas 1 - 5 mg/L [static];
LC50 96 h Pimephales promelas 10 - 35 mg/L [semi-static]

Invertebrate: EC50 48 h Daphnia magna 1 - 1.5 mg/L IUCLID

Persistence and

Degradability: No information available for the product.

Bioaccumulative

Potential: No information available for the product.

Mobility: No information available for the product.

Other Toxicity: No additional information is available.

Section 13: DISPOSAL CONSIDERATIONS

Disposal Methods: Dispose of contents/container in accordance with local/regional/national/international regulations. Regulations may also apply to empty containers. The responsibility for proper waste disposal lies with the owner of the waste.

This product, if discarded, is not expected to be a characteristic or listed hazardous waste. If recycled in the USA, it 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.



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Section 14: TRANSPORT INFORMATION

Basic Description: Not classified as hazardous for transport (DOT, TDG, IMO/IMDG, IATA/ICAO).

DOT

Proper Shipping Name: Not regulated for transport.

UN Number: Not regulated for transport.

Hazard Class: Not regulated for transport.

Packing Group: Not regulated for transport.

TDG

Proper Shipping Name: Not regulated for transport.

UN Number: Not regulated for transport.

Hazard Class: Not regulated for transport.

Packing Group: Not regulated for transport.

IMDG

Proper Shipping Name: Not regulated for transport.

UN Number: Not regulated for transport.

Hazard Class: Not regulated for transport.

Packing Group: Not regulated for transport.

Marine Pollutant: Not regulated for transport.

IATA

Proper Shipping Name: Not regulated for transport.

UN Number: Not regulated for transport.

Hazard Class: Not regulated for transport.

Packing Group: Not regulated for transport.

International Bulk Chemical Code: This material does not contain any chemicals required by the IBC Code to be identified as dangerous chemicals in bulk.

Section 15: REGULATORY INFORMATION

Canada Regulations

CEPA - Priority Substances List: None of this product's components are on the list.

Ozone Depleting Substances: None of this product's components are on the list.

Council of Ministers of the Environment - Soil Quality Guidelines: None of this product's components are on the list.

Council of Ministers of the Environment - Water Quality Guidelines: None of this product's components are on the list.

U.S. Federal Regulations: None of this products component are listed under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

SARA Section 311/312 (40 CFR 370 Subparts B and C) 2016 reporting categories

Acute Health: No

Chronic Health: Yes

Fire: No Pressure: No

Reactivity: No





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Component Analysis - Inventory

Component	CAS #	CAN	US
Lubricating oils, petroleum, hydrotreated spent	64742-58-1	DSL	TSCA
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	DSL	TSCA
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	68649-42-3	DSL	TSCA

Section 16: OTHER INFORMATION

Issue Date: March 17, 2018

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Revision Information: Update to SDS.

References

ACGIH:	American Conference of Governmental Industrial Hygienists	IMDG:	International Maritime Dangerous Goods
AIHA:	American Industrial Hygiene Association	IUCLID:	International Uniform Chemical Information Database
BOD:	Biochemical Oxygen Demand	NFPA:	National Fire Protection Association
°C:	Celsius	NIOSH:	National Institute for Occupational Safety and Health
CAS:	Chemical Abstracts Service	NTP:	National Toxicology Program
CERCLA:	Comprehensive Environmental Response, Compensation, and Liability Act	OSHA:	Occupational Safety and Health Administration
CFR:	Code of Federal Regulations	PEL:	Permissible Exposure Limit
CPR:	Controlled Products Regulations	RTK:	Right-to-Know
DOT:	United States Department of Transportation	SARA:	Superfund Amendments and Reauthorization Act
DSL:	Domestic Substances List	STEL:	Short-term Exposure Limit
EPA:	Environmental Protection Agency	TDG:	Transportation of Dangerous Goods
°F:	Fahrenheit	TLV:	Threshold limit value
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals	TSCA:	Toxic Substances Control Act
HMIS:	Hazardous Materials Identification System	TWA:	Time weighted average
IARC:	International Agency for Research on Cancer	UN:	United Nations
IATA:	International Air Transportation Association	WHMIS:	Workplace Hazardous Materials Information System
IDLH:	Immediately Dangerous to Life or Health		

Disclaimer This safety data sheet and the information it contains is offered to you in good faith as accurate. We have reviewed any information contained in the data sheet which we have received from outside sources and we believe the information to be correct, but cannot guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product in a safe manner and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as permission or recommendation for the use of any product in a manner that might infringe existing patents. No warranty is made, either expressed or implied.

