



SAFETY DATA SHEET

Issuing Date 5-Nov-21

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Revision Number 1

1. PRODUCT AND COMPANY IDENTIFICATION

Material Name Boss Universal Tractor Fluid

Other means of identification

Product Code(s) GHSRBS-127

Synonyms Petroleum oil; lube oil; petroleum hydrocarbon, lubricant

Recommended use of the chemical and restrictions on use

Product 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

Details of the supplier of the safety data sheet

Initial supplier identifier

BOSS Lubricants

Manufacturer Address

6303 30 ST SE Calgary, AB T2C 1R4

Emergency telephone number

Initial supplier phone number (800) 844-9457

Emergency Telephone Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification Not a hazardous substance or mixture according to the Globally Harmonized System (GHS) Not a hazardous substance or mixture according to Canada's Hazardous Product Regulations.

Label elements None

Hazard statements Not a hazardous substance or mixture according to the Globally Harmonized System (GHS). Not a hazardous substance or mixture according to Canada's Hazardous Product Regulations.

Precautionary Statements

Disposal Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

Other information 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).

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Lubricating oils, petroleum, hydrotreated spent	64742-58-1	80-90	-	
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	3-7	-	
Mineral Oil	NOT AVAILABLE	3-7	-	
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	68649-42-3	1-2		
Calcium long-chain alkaryl sulfonate	722503-69-7	0.5-1.5	-	

4. FIRST AID MEASURES**Description of first aid measures**

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Oxygen should only be administered by qualified personnel. Someone should stay with the victim. Get medical attention if breathing difficulty persists.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Skin	Wash with plenty of soap and water while removing all contaminated clothes and shoes. Get medical attention, if needed. Wash contaminated clothing before reuse.
Ingestion	Do not induce vomiting. Immediately 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.

Most important symptoms and effects, both acute and delayed

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 and specifics of incident.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media Carbon dioxide, regular foam, dry chemical, water spray, water fog. Water or foam may cause frothing.

Unsuitable Extinguishing Media Do not use high-pressure water streams.

Specific 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.

Protective equipment for fire-fighters

A positive-pressure, self-contained breathing apparatus (SCBA) and full-body protective equipment are required for fire emergencies.

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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures

Wear personal protective clothing and equipment, see section 8.

Methods and material 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.

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 and explosion-proof equipment. 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 eyes, skin, clothing, and 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.

Incompatibilities

Avoid acids and oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits 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.

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-M1985 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid	
Appearance	Amber liquid	
Odor	Petroleum odor	
Odor threshold	No information available	
<u>Property</u>	<u>Values</u>	<u>Remarks</u>
pH	No data available	None known
Melting point/freezing point	No data available	None known
Boiling point/boiling range	No data available	None known
Boiling point range	No data available	None known
Freezing point	No data available	None known
Evaporation Rate	No data available	None known
Flash point	223°C (433.4°F)	ASTM D92
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		
Upper flammability or explosive Limits	No data available	None known
Lower flammability or explosive Limits	No data available	None known
Vapor Pressure	Less than 0.1 mm Hg at 68°F (20°C)	None known
Vapor Density	No data available	None known
Density	No data available	None known
Volatility	51.100(s)	ASTM D5800
Relative Density (@ 15°C)	0.88 @15°C	ASTM D1298
Specific Gravity(water=1)	0.8629	ASTM D4052
Solubility n-Octanol/	No data available	None known
Water Partition coefficient	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Brookfield Viscosity @ -35°C	37500	ATSM D2983
Kinematic Viscosity cSt @ 40°C	60.89	ATSM D445
<u>Other information</u>		
Explosive Properties	No information available	
Oxidizing Properties	No information available	
Softening Point	No information available	
Molecular Weight	No information available	
VOC Content (%)	No information available	
Liquid Density	No information available	
Bulk Density	No information available	

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
Incompatibility	Avoid acids and oxidizing agents
Hazardous Decomposition Products	None under normal temperatures and pressures
Conditions to avoid	Avoid sparks, flame, and other sources of ignition

11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure**

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

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 LD50	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	>2000 mg/kg
Oral	>2000 mg/kg
Immediate effects	No information on significant adverse effects
Delayed effects	No information on significant adverse effects
Irritation/corrosivity	May cause slight skin and respiratory irritation
Respiratory sensitization	No information available for the product
Dermal sensitization	No information available 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 available for the product
Tumorigenic data	No information available for the product
Reproductive toxicity	No information available for the product
<u>Specific target organ toxicity</u>	
Single exposure	No information on significant adverse effects
Repeated exposure	No information on significant adverse effects
Aspiration hazard	There is 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

12. ECOLOGICAL INFORMATION

Ecotoxicity Harmful to aquatic life with long lasting effects

Component Analysis-Ecotoxicity-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, solvent-refined heavy paraffinic (64742-54-7)

Fish LC50 96 h Oncorhynchus mykiss >500 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)
LC 50 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 available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused Dispose of in accordance with local regulations. Dispose of waste in accordance with products environmental legislation.

Contaminated packaging Do not reuse empty containers.

14. TRANSPORT INFORMATION

<u>Transport Canada</u>	Not regulated
<u>TDG</u>	Not regulated
<u>DOT</u>	Not regulated

15. REGULATORY INFORMATION**Safety, health, and environmental regulations/legislation specific for the substance or mixture****International Regulations**

The Montreal Protocol on Substances that Deplete the Ozone Layer	Not applicable
The Stockholm Convention on Persistent Organic Pollutants	Not applicable
The Rotterdam Convention	Not applicable

Internal Inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Contact supplier for inventory compliance status
ENCS	Contact supplier for inventory compliance status
IECSC	Contact supplier for inventory compliance status
KECL	Contact supplier for inventory compliance status
PICCS	Contact supplier for inventory compliance status
AICS	Contact supplier for inventory compliance status

Legend:

TSCA-Unites States Toxic Substances Control Act Section 8(b) inventory

DSL/NDSL-Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS-European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS-Japan Existing and New Chemical Substances

IECSC-China Inventory of Existing Chemical Substances

KECL-Korean Existing and Evaluated Chemical Substances

PICCS-Philippines Inventory of Chemicals and Chemical Substances

AICS-Australian Inventory of Chemical Substances

16. OTHER INFORMATION

<u>NFPA</u>	Health hazards 0	Flammability 1	Instability 0	Physical and chemical properties -
<u>HMIS</u>	Health hazards 0	Flammability 1	Physical hazards 0	Personal protection X

Key or legend to abbreviations and acronyms used in the safety data sheet**Legend 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)
 U.S. Environmental Protection Agency ChemView Database
 European Food Safety Authority (EFSA)
 EPA (Environmental Protection Agency)
 Acute Exposure Guideline Level(s) (AEGL(s))
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act U.S.
 Environmental Protection Agency High Production Volume Chemicals
 Food Research Journal
 Hazardous Substance Database
 International Uniform Chemical Information Database (IUCLID)
 Japan GHS Classification
 Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
 NIOSH (National Institute for Occupational Safety and Health)
 National Library of Medicine's ChemID Plus (NLM CIP)
 National Library of Medicine's PubMed database (NLM PUBMED)
 National Toxicology Program (NTP)
 New Zealand's Chemical Classification and Information Database (CCID)
 Organization for Economic Co-operation and Development Environment, Health, and Safety Publications
 Organization for Economic Co-operation and Development High Production Volume Chemicals Program
 Organization for Economic Co-operation and Development Screening Information Data Set
 RTECS (Registry of Toxic Effects of Chemical Substances)
 World Health Organization

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Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

Data for Regulatory Rules

Region	Template name	Revision Note
Canada	HGHS	2.0

GHS Product Information

Physical state	Liquid
Flash point °C	223
Boiling point / boiling range °C	246

Component Information**Canada****GHS Classification**

Hazard Statement	None
Signal word	None
Precautionary Statements - Disposal	Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable