



# SAFETY DATA SHEET

Issuing Date 10- Aug-23

Revision date 10- Aug-23

Revision Number 1

## 1. PRODUCT AND COMPANY IDENTIFICATION

<b>Material Name</b>	Boss Fast Flow Hydraulic Oil 22, 32, 46, 68
<b>Other means of identification</b>	
<b>Product Code(s)</b>	GHSRBS-126
<b>Product use</b>	For lubricating hydraulic systems. If these products are used in combination with other products, refer to the Safety Data Sheets for those products.
<b>Synonyms</b>	Petroleum oil; lube oil; petroleum hydrocarbon, lubricant
<b>Restrictions on use</b>	None known
<b>Details of the supplier of the safety data sheet</b>	
<b>Initial supplier identifier</b>	<b>Manufacturer Address</b>
BOSS Lubricants	6303 30 ST SE Calgary, AB T2C 1R4
<b>Emergency telephone number</b>	
<b>Initial supplier phone number</b>	(800) 844-9457
<b>Emergency Telephone</b>	Chemtrec 1-800-424-9300

## 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

### GHS Label Elements

<b>Symbol(s)</b>	None needed according to classification criteria
<b>Signal Word</b>	None needed according to classification criteria
<b>Hazard Statement(s)</b>	None needed according to classification criteria
<b>Precautionary Statement(s)</b>	
<b>Prevention</b>	None needed according to classification criteria
<b>Response</b>	None needed according to classification criteria
<b>Storage</b>	None needed according to classification criteria
<b>Disposal</b>	Dispose of in accordance with all applicable federal, state, and local regulations
<b>Hazard(s) not otherwise classified</b>	Repeated exposure may cause skin dryness or cracking. May be harmful if swallowed. May irritate eyes.

**Potential Health Effects**

<b>Inhalation</b>	The products are not likely to present an inhalation hazard at normal temperatures and pressures, however, when aerosolizing, misting, or heating these products, high concentrations of generated vapor or mist may irritate the respiratory tract (nose, throat, and lungs).
<b>Eyes</b>	May cause irritation
<b>Skin</b>	May cause irritation. Not likely to be absorbed through the skin in harmful amounts
<b>Ingestion</b>	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.

**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.

<b>Chronic</b>	Prolonged or repeated inhalation of oil mist may cause oil pneumonia, lung tissue inflammation, and/or fibrous tissue formation. Prolonged or repeated eye contact may cause inflammation of the membrane lining the eyelids and covering the eyeball (conjunctivitis). Prolonged or repeated skin contact may cause drying, cracking, redness, itching, and/or swelling (dermatitis).
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<b>Cancer information</b>	No known carcinogenicity. For more information, see section 11: Carcinogenicity. Also see section 15: California.
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<b>Environmental Hazards</b>	Not available. Also see section 12: Ecological Information
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**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)
Residual oils (petroleum), solvent dewaxed	64742-62-7	21 - 99	-	
Residual oils (petroleum), hydrotreated	64742-57-0	0 - 85	-	
Petroleum distillates, solvent-refined heavy paraffinic	64741-88-4	0 - 85	-	
Petroleum Distillate	NOT AVAILABLE	0.1 - 1	-	
Lubricating oils, petroleum, hydrotreated spent	64742-58-1	4.5 - 99	-	
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0	0.1 - 1	-	
Lubricating oils (petroleum), C>25 hydro treated bright stock	72623-83-7	0 - 85	-	

Alkyl phenol	NOT AVAILABLE	0.1 - 1	-	
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If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret.

#### 4. FIRST AID MEASURES

##### Description of first aid measures

<b>Inhalation</b>	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.
<b>Eye contact</b>	If irritation or redness from exposure to vapor develops, move away from exposure into fresh air. 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 irritation develops and persists.
<b>Skin</b>	Wash with plenty of soap and water while removing all contaminated clothes and shoes. Get medical attention, if needed. If products are 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.
<b>Ingestion</b>	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

<b>Acute</b>	No information on significant adverse effects
<b>Delayed</b>	No information on significant adverse effects
<b>Notes to physicians</b>	Treat symptomatically and supportively. Treatment may vary with condition of victim and specifics of incident.

#### 5. FIRE FIGHTING MEASURES

<b>Hazardous Combustion Products</b>	Decomposition and combustion materials may be toxic. Burning may produce aldehydes, hydrogen sulfide, alkyl mercaptans, sulfides, nitrogen oxides, phosphorus oxides, sulfur oxides, carbon monoxides, and unidentified organic compounds.
<b>Specific hazards arising from the chemical</b>	Negligible fire hazard. Avoid friction, static electricity, and sparks
<b>Suitable Extinguishing Media</b>	Carbon dioxide, regular foam, dry chemical, water spray, or water fog
<b>Unsuitable Extinguishing Media</b>	Do not use high-pressure water streams. Water or foam may cause frothing.
<b>Protective equipment for fire-fighters</b>	A positive-pressure, self-contained breathing apparatus (SCBA) and full-body protective equipment are required for fire emergencies.

<b>Fire-Fighting Equipment/Instructions</b>	Move container from fire area if it can be done without risk. Keep storage containers cool with water spray. Heated containers may rupture or be thrown into the air. "Empty" containers may retain residue and can be dangerous. Product is not sensitive to mechanical impact.
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## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment, and emergency procedures

**Personal precautions** Use personal protective equipment as required. See section 8 for more information.

### Methods and material for containment and cleaning up.

**Methods for containment** Stop leak if you can do it without risk. Keep out of drains, sewers, ditches, and waterways. Ventilate the area. Avoid breathing vapors or mists.

**Methods for cleaning up** Cover liquid spill with sand, earth, or other non-combustible absorbent material. Prevent product from entering drains.

## 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.

**Shipping and storage** 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.

**Incompatibilities** Strong oxidizing materials

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Component Exposure Limits** ACGIH, OSHA, and NIOSH have not developed exposure limits for any of this product's components.

**Engineering Controls** Provide general ventilation needed to maintain concentration of vapor or mist below applicable exposure limits. Where adequate general ventilation is unavailable, use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below applicable exposure limits.

**Personal Protective Equipment** 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.

**Eye/Face**

Where eye contact is likely, wear safety glasses; contact lens is not recommended.

**Skin**

Where skin contact is likely, wear neoprene, nitrile, 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.

**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 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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Appearance</b>	Amber, red, green, or blue liquid	
<b>Odor</b>	Petroleum odor	
<b>Odor threshold</b>	No information available	
<b>Property</b>	<b>Values</b>	<b>Remarks</b>
<b>pH</b>	No data available	None known
<b>Melting point/freezing point</b>	No data available	None known
<b>Boiling point/boiling range</b>	475°F (246°C)(minimum)	None known
<b>Boiling point range</b>	No data available	None known
<b>Freezing point</b>	No data available	None known
<b>Evaporation Rate</b>	No data available	None known
<b>Flash point</b>	356°F(180°C)(min)	ASTM D92
<b>Flammability (solid, gas)</b>	No data available	None known
<b>Flammability Limit in Air</b>		
<b>Upper flammability or explosive Limits</b>	No data available	None known
<b>Lower flammability or explosive Limits</b>	No data available	None known
<b>Vapor Pressure</b>	less than 0.1 mm Hg@ 68°F(20°C)	ASTM D323
<b>Vapor Density</b>	No data available	None known
<b>Density</b>	No data available	None known
<b>Relative Density (@ 15°C)</b>	No data available	None known
<b>Specific Gravity(water=1)</b>	0.88 (water=1)(approx.)	ASTM D792-20
<b>Solubility</b>	Insoluble	None known
<b>n-Octanol/</b>		

<b>Water Partition coefficient</b>	No data available	None known
<b>Pour point</b>	-6°C (21°F)(maximum)	None known
<b>Autoignition temperature</b>	No data available	None known
<b>Decomposition temperature</b>	No data available	None known
<b>Viscosity</b>	No data available	None known
<b>Dynamic Viscosity</b>	No data available	None known

**Other information**

<b>Explosive Properties</b>	No information available
<b>Oxidizing Properties</b>	No information available
<b>Softening Point</b>	No information available
<b>Molecular Weight</b>	No information available
<b>VOC Content (%)</b>	No information available
<b>Liquid Density</b>	No information available
<b>Bulk Density</b>	No information available

**10. STABILITY AND REACTIVITY**

<b>Reactivity</b>	No reactivity hazard is expected.
<b>Chemical Stability</b>	Stable under normal temperatures and pressures
<b>Possibility of hazardous reactions</b>	Will not polymerize.
<b>Incompatibility</b>	Avoid oxidizing agents, reducing agents, and/or acids.
<b>Hazardous Decomposition Products</b>	None under normal temperatures and pressures. See also Section 5: Hazardous Combustion Products.
<b>Conditions to avoid</b>	Avoid heat, sparks, or flame when not in use.

**11. TOXICOLOGICAL INFORMATION****Toxicity Data****Component Analysis-LD50/LC50****Lubricating oils, petroleum, hydrotreated spent(64742-58-1)**

<b>Oral LD50</b>	Rat>2000 mg/kg
<b>Dermal LD50</b>	Rat>2000 mg/kg
<b>Dermal LD50</b>	Rabbit>4480 mg/kg

**Petroleum distillates, solvent-refined heavy paraffinic (64741-88-4)**

<b>Inhalation LC50</b>	Rat 2.18 mg/L 4 h
<b>Oral LD50</b>	Rat>5000 mg/kg
<b>Dermal LD50</b>	Rabbit >2000 mg/kg

**Residual oils (petroleum), solvent refined (64742-01-4)**

<b>Inhalation LC50</b>	Rat 2.18 mg/L 4 h
<b>Oral LD50</b>	Rat >5000 mg/kg
<b>Dermal LD50</b>	Rabbit >2000 mg/kg

**Residual oils (petroleum), solvent dewaxed (64742-62-7)**

<b>Inhalation LC50</b>	Rat 2.18 mg/L 4 h
<b>Oral LD50</b>	Rat >5000 mg/kg
<b>Dermal LD50</b>	Rabbit >5000 mg/kg
<b>Dermal LD50</b>	Rabbit >2000 mg/kg

**Mineral Oil (Proprietary)**

<b>Oral LD50</b>	Mouse 22g/kg (related to oil mist, mineral)
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**Information on likely routes of exposure**

<b>Inhalation</b>	No information on significant adverse effects
<b>Ingestion</b>	May be harmful if swallowed.
<b>Skin Contact</b>	Repeated exposure may cause skin dryness or cracking.
<b>Eye Contact</b>	No information on significant adverse effects.
<b>Immediate effects</b>	No information on significant adverse effects.
<b>Delayed effects</b>	No information on significant adverse effects.
<b>Irritation/corrosivity</b>	May cause slight skin and respiratory irritation.
<b>Respiratory sensitization</b>	No information available for the product.
<b>Skin sensitization</b>	Based on best current information, there is no known human sensitization associated with these products.
<b>Component Carcinogenicity</b>	None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.
<b>Mutagenicity</b>	Experimental evidence suggests that these products do not cause mutagenesis.
<b>Reproductive toxicity</b>	Based on best current information, there is no known reproductive toxicity associated with these products.

**Specific target organ toxicity**

<b>Single exposure</b>	No information on significant adverse effects.
<b>Repeated exposure</b>	No information on significant adverse effects.
<b>Aspiration hazard</b>	There is no data available.
<b>Teratogenicity</b>	Based on best current information, there is no known teratogenicity associated with these products.
<b>Toxicologically Synergistic Products</b>	Based on best current information, there are no known toxicologically synergistic products associated with these products. Also see section 15: California.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity** Toxic to aquatic life

**Component Analysis-Ecotoxicity-Aquatic toxicity**

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

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)

**Petroleum distillates, solvent-refined heavy paraffinic (64741-88-4) Notes**

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

**Residual oils (petroleum), solvent refined (64742-01-4) Notes**

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

**Residual oils (petroleum), solvent dewaxed (64742-62-7) Notes**

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

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

Duration/Test/Species	Concentration/Conditions
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 and degradability** May cause long-term adverse effects in the aquatic environment.

**Bio-accumulative potential** There is no data available.

**Mobility in Environmental Media** No information available for the product.

**Other adverse effects** No additional information available.

**13. DISPOSAL CONSIDERATIONS****Waste treatment methods**

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

**Contaminated packaging** Do not reuse empty containers.

**14. TRANSPORT INFORMATION**

**Transport Canada** Not regulated

**TDG** Not regulated

**DOT** Not regulated



## 15. REGULATORY INFORMATION

### Safety, health and environmental regulations/legislation specific for the substance or mixture

#### International Regulations

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

#### Internal Inventories

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

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

### Key or legend to abbreviations and acronyms used in the safety data sheet.

#### **Legend Section 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

**Issuing Date** 10- Aug-23  
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**Revision Note** No information available.

#### 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 - 356°F (180°C) (minimum) Cleveland open cup  
 Boiling point / boiling range °C 475°F (246°C) (minimum)

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**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