



# SAFETY DATA SHEET

Issuing Date 16-Feb-2022

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Revision Number 2

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Material Name** Boss R&O Turbine 32, 46, 68, 100, 150, 220  
**Synonyms** None  
**Product code** GHSRBS-006  
**Product Use** Lubricant  
**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, ABT2C 1R4

### Emergency telephone number

**Initial supplier phone number** (800) 844-9457  
**Emergency Telephone** 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

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.

**GHS Label Elements** None

**Hazard Statement(s)** 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 Statement(s)

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

## 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	-	

If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret.

#### 4. FIRST AID MEASURES

<b>Inhalation</b> advice/attention.	Remove victim to fresh air, give artificial respiration. If exposed or concerned; get medical
<b>Skin</b> needed.	Remove affected clothing and shoes. Wash with plenty of soap and water. Get medical attention if
<b>Eyes</b>	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>Ingestion</b>	Do NOT induce vomiting. Immediately get medical attention. If vomiting occurs spontaneously, keep head lower than hips to help prevent aspiration. Immediately call a POISON CENTER or doctor/physician. Never give anything by mouth to an unconscious person.

#### Most important symptoms and effects, both acute and delayed

<b>Symptoms</b>	Prolonged contact may cause redness and irritation Indication of any immediate medical attention and special treatment needed
<b>Note to physicians</b>	Treat symptomatically

#### 5. FIRE FIGHTING MEASURES

<b><u>Extinguishing Media</u></b>	
<b>Suitable Extinguishing Media</b>	Carbon dioxide, regular foam, dry chemical, water spray, water fog.
<b>Unsuitable Extinguishing Media</b>	Do not scatter spilled material with high pressure water streams.
<b>Special Hazards Arising from the Chemical</b>	No information available
<b><u>Explosion data</u></b>	
<b>Sensitivity to mechanical impact</b>	None
<b>Sensitivity to static discharge</b>	None
<b>Special Protective Equipment and Precautions for Firefighters</b>	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

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

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Advice on safe handling** Avoid breathing dust/fume/gas/mist/vapors/spray. Use grounding and bonding connection when transferring this material to prevent static discharge, fire, or explosion. Use spark-proof tools and explosion-proof equipment. Avoid contact with skin, eyes, or clothing. Ensure adequate ventilation.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep container tightly closed in a dry and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity).

## 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.

### Control parameters

**Exposure Limits** Mineral oil, as a mist, is regulated by Provincial authorities and range from 0.2 mg/m<sup>3</sup> (British Columbia) to 5 mg/m<sup>3</sup> (Alberta, Manitoba, Ontario, Quebec, Saskatchewan). Consult Provincial Occupational Health & Safety authority's websites for details.

### Appropriate Engineering Controls

**Engineering Controls** Showers  
Eyewash stations  
Ventilation systems

### 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.

**Hand protection** Wear suitable gloves

**Skin/body protection** No special protective equipment required

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state</b>	Liquid
<b>Appearance</b>	Viscous
<b>Color</b>	Amber
<b>Odor</b>	None
<b>Odor threshold</b>	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<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>	246°C 475°F	ASTM D7213
<b>Flash point</b>	200°C 392°F	ASTM D92
<b>Evaporation rate</b>	No data available	None known
<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>Freezing point</b>	No data available	None known
<b>Vapor pressure</b>	No data available	None known
<b>Vapor density</b>	No data available	None known
<b>Relative density</b>	0.8614- 0.899 @ 15°C	ASTM D4052
<b>Water solubility</b>	Insoluble in water	None known
<b>Solubility in other solvents</b>	No data available	None known
<b>Partition coefficient</b>	No data available	None known
<b>Autoignition temperature</b>	No data available	None known
<b>Decomposition temperature</b>	No data available	None known
<b>Kinematic viscosity @ 40°C</b>	32-220 cSt	ASTM D445
<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>	less than 0.1 mm Hg at 68°F (20°C)
<b>Bulk density</b>	No information available

## 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	Stable
<b>Chemical Stability</b>	Stable under normal conditions
<b>Possibility of Hazardous Reactions</b>	None under normal processing
<b>Conditions to Avoid</b>	Heat, flames and sparks
<b>Incompatible Materials</b>	Strong oxidizing agents.
<b>Hazardous decomposition products</b>	Thermal decomposition can lead to release of irritating and toxic gases and vapors.

## 11. TOXICOLOGICAL INFORMATION

### Information on Likely Routes of Exposure

<b>Inhalation</b>	No known hazard by inhalation
<b>Skin Contact</b>	No known hazard in contact with skin
<b>Eye Contact</b>	Not expected to cause eye irritation
<b>Ingestion</b>	No known hazard by swallowing

### Symptoms related to physical, chemical and toxicological characteristics

<b>Symptoms</b>	No information available
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### Acute toxicity

<b>Numerical measures of toxicity</b>	No information available
<b>Unknown acute toxicity</b>	No information available

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

<b>Skin corrosion/ Irritation</b>	May cause skin irritation. Symptoms may be delayed
<b>Serious eye damage/ Eye irritation</b>	Based on available data, the classification criteria are not met
<b>Respiratory or skin Sensitization</b>	Based on available data, the classification criteria are not met
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met
<b>Carcinogenicity</b>	Based on available data, the classification criteria are not met
<b>Reproductive Toxicity</b>	Based on available data, the classification criteria are not met
<b>STOT-single exposure</b>	Based on available data, the classification criteria are not met
<b>STOT-repeated exposure</b>	Based on available data, the classification criteria are not met
<b>Aspiration hazard</b>	Not applicable

## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	Not considered to be harmful to aquatic life
<b>Persistence and Degradability</b>	No information available for the product
<b>Bioaccumulative Potential</b>	No information available for the product
<b>Other adverse effects</b>	No information available

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

<b>Waste from residues/unused products</b>	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
<b>Contaminated packaging</b>	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

#### International 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 - United 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 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

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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**

<b>Data for Regulatory Rules</b>
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Region	Template name	Revision Note
<b>Canada</b>	HGHS	2.0

<b>GHS Product Information</b>
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Physical state	Liquid
Flash point °C -	200°C 392°F
Boiling point / boiling range °C	200°C 392°F

## Component Information

### Canada

#### GHS Classification

Not Hazardous

Signal word

Precautionary Statements - Disposal

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.

None

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