



# SAFETY DATA SHEET

Issuing Date 02-Feb-2022

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Revision Number 2

## 1. IDENTIFICATION

### Product Identifier

**Product Name** BOSS Synthetic Blend Diesel Engine Oil 0W40, 5W40, 10W40, 15W40

**Other means of identification** Synthetic Blend Diesel Engine Oil

**Product Codes** GHSRBS-129

**Synonyms** No data available

### Recommended use and restrictions on use

**Recommended use** Motor Oil

**Restrictions on use** No data available

### 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

### GHS 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.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS #	Concentration	Hazardous Material Information Review A A registry number (HMI registry #)	Date HMIRA filed and date exemption granted (if applicable)

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Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	72623-87-1	5 - 10	-	NA
Solvent-refined light paraffinic distillate	64741-89-5	1 - 5	-	NA
Petroleum distillates, solventrefined heavy paraffinic	64741-88-4	1 - 5	-	NA
Solvent dewaxed light paraffinic distillate (petroleum)	64742-56-9	1 - 5	-	NA

#### 4. FIRST AID MEASURES

##### Description of first aid measures

<b>Inhalation</b>	Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen.
<b>Eye contact</b>	Use eye wash to remove a chemical from the eye. Flush the affected eye for at least fifteen minutes. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Seek medical attention if irritation persists.
<b>Skin Contact</b>	Wash with soap and water. Get medical attention if irritation develops or persists.
<b>Ingestion</b>	Minimal risk of harm if swallowed. Do not induce vomiting. Seek medical attention immediately. Provide medical care provider with this SDS.

##### Most important symptoms and effects

**Acute or Delayed** Prolonged contact may cause redness and irritation.

##### An indication of immediate medical attention and special treatment needed, if necessary

**Notes to physician** No additional first aid information available.

#### 5. FIRE - FIGHTING MEASURES

<b>Suitable extinguishing media</b>	Use alcohol resistant foam, carbon dioxide, or dry chemical when fighting fires.  Water or foam may cause frothing if liquid is burning but it still may be a useful extinguishing agent if carefully applied to the surface of the fire. Do not direct a stream of water into the hot burning liquid.
<b>Unsuitable extinguishing media</b>	Do not use water in a jet.
<b>Specific hazards arising from the Chemical</b>	Hazardous combustion products may include:  A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide may be evolved if incomplete combustion occurs. Unidentified organic and inorganic compounds.
<b>Specific extinguishing methods</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Special protective equipment and precautions for firefighters</b>	Proper protective equipment including chemical resistant gloves are to be worn; chemical resistant suit is indicated if large contact with spilled product is expected. Self-Contained

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Breathing Apparatus must be worn when approaching a fire in a confined space. Select fire fighter's clothing approved to relevant Standards (e.g. Europe: EN469)

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal precautions** No health effects expected from the clean up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section 8 of this SDS.

### Methods and materials for containment and cleaning up

**Methods for Containment** Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Dike with suitable absorbent material like granulated clay.

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

**Environmental precautions** Local authorities should be advised if significant spillages cannot be contained.

## 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

**Conditions for safe storage** Store in a cool dry place. Isolate from incompatible materials.

**Packaging material** Suitable material: For containers or container linings, use mild steel or high-density polyethylene.

**Container Advice** Polyethylene containers should not be exposed to high temperatures because of possible risk of distortion.

**Materials to Avoid/Chemical Incompatibility** Strong oxidizing agents

## 8. EXPOSURE CONTROL - PERSONAL PROTECTION

Control parameters, including occupational exposure limit values or biological limit values and the source of those values

Chemical Name	Occupational Exposure Limits	Value
Oil mist, mineral	OSHA PEL	5 mg/m <sup>3</sup>
Oil mist, mineral	OSHA PEL	5 mg/m <sup>3</sup>
Lubricating oils (petroleum),	OSHA PEL	5 mg/m <sup>3</sup>
C20-50, hydrotreated neutral oil-based Distillates (petroleum), solvent-dewaxed light paraffinic	OSHA PEL	5 mg/m <sup>3</sup>

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Oil mist, mineral	OSHA PEL	5 mg/m3
Oil mist, mineral	OSHA PEL	5 mg/m3
None.	OSHA STEL	
Oil mist, mineral	ACGIH TLV-TWA	5 mg/m3
Oil mist, mineral	ACGIH TLV-TWA	5 mg/m3
Lubricating oils (petroleum), C20-50, hydrotreated neutral oilbased	ACGIH TLV-TWA	5 mg/m3
Distillates (petroleum), solvent-dewaxed light paraffinic	ACGIH TLV-TWA	5 mg/m3
Oil mist, mineral	ACGIH TLV-TWA	5 mg/m3
Oil mist, mineral	ACGIH TLV-TWA	5 mg/m3
Oil mist, mineral	ACGIH STEL	10 mg/m3
Oil mist, mineral	ACGIH STEL	10 mg/m3
Lubricating oils (petroleum), C20-50, hydrotreated neutral oilbased	ACGIH STEL	10 mg/m3
Distillates (petroleum), solvent-dewaxed light paraffinic	ACGIH STEL	10 mg/m3
Oil mist, mineral	ACGIH STEL	10 mg/m3
Oil mist, mineral	ACGIH STEL	10 mg/m3
None.	IDLH	
None.	OSHA PEL-Skin Notation	

**Appropriate engineering controls** Use local exhaust ventilation or other engineering controls to minimize exposures and maintain operator comfort.

### **Personal protective equipment**

#### **Respiratory Protection**

Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms.

#### **Respirator Type(s)**

None required where adequate ventilation is provided. If airborne concentrations are above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection.

#### **Eye and face protection**

Wear safety glasses when handling this product if there is a likelihood of contact with eyes.

#### **Skin Protection**

Where use can result in skin contact, practice good personal hygiene and wear impervious gloves. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

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**Hand protection**

Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection. PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Information on basic physical and chemical properties**

<b>Physical state</b>	Liquid
<b>Appearance</b>	Viscous
<b>Color</b>	Amber
<b>Odor</b>	Petroleum distillates
<b>Odor threshold</b>	No information available

<b><u>Property</u></b>	<b><u>Values</u></b>	<b><u>Remarks • Method</u></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>	No data available	None known
<b>Flash point</b>	188 - 238 °C	ASTM D93
<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	
<b>Lower flammability or explosive limits</b>	No data available	
<b>Vapor pressure</b>	<0.1 mmHg @ 20°C	None known
<b>Vapor density</b>	No data available	None known
<b>Relative density</b>	0.846-0.881 @15°C	ASTM D1298
<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</b>	56.98 - 115 Cst @ 40°C	D445
<b>Dynamic viscosity</b>	No data available	None known
<b><u>Other information</u></b>		
<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	

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## 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	There are no known reactivity hazards associated with this product.
<b>Chemical stability</b>	Stable under normal conditions.
<b>Possibility of hazardous reactions</b>	None expected under standard conditions of storage.
<b>Conditions to avoid, including static discharge, shock or vibration</b>	Temperatures above the high flash point of this combustible material in combination with sparks, open flames, or other sources of ignition. Moisture (will lead to product performance degradation).
<b>Incompatible materials</b>	Strong oxidizing agents
<b>Hazardous decomposition products</b>	No decomposition if stored and applied as directed.

## 11. TOXICOLOGY INFORMATION

### Information on toxicological effects

<b>Ingestion Toxicity</b>	Although this product has a low order of acute oral toxicity, aspiration of minute amounts into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and possibly death. Likely to be practically non-toxic by ingestion based on animal data.
<b>Skin Contact</b>	This material is likely to be slightly irritating to skin based on animal data. Can cause minor skin irritation, defatting, and dermatitis.
<b>Absorption</b>	Likely to be practically non-toxic based on animal data.
<b>Inhalation Toxicity</b>	No hazard in normal industrial use. Likely to be practically non-toxic based on animal data.
<b>Eye Contact</b>	This material is estimated to be non-irritating eyes (Draize score <15 [rabbits]). No hazard in normal industrial use.
<b>Sensitization</b>	Non-hazardous under Respiratory Sensitization category.
<b>Mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% is mutagenic or genotoxic.
<b>Carcinogenicity</b>	Not expected to cause cancer. This product meets the IP-346 criteria of <3% PAH's and is not considered a carcinogen by the International Agency for Research on Cancer.
<b>Reproductive and Developmental Toxicity</b>	No data available to indicate product or any components present at greater than 0.1% may cause birth defects.
<b>Mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% is mutagenic or genotoxic.
<b>Skin Absorption</b>	Upon prolonged or repeated exposure, no hazard in normal industrial use.
<b><u>Specific Target Organ Toxicity</u></b>	
<b>Single Exposure</b>	No information on significant adverse effects.
<b>Repeated Exposure</b>	No information on significant adverse effects.
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met.
<b>Numerical measures of toxicity, including ATEs</b>	Based on available data, the classification criteria are not met.

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**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

### Toxicity

**Acute Aquatic Ecotoxicity** Non-hazardous under Aquatic Acute Environment category.

**Chronic Aquatic Ecotoxicity** Non-hazardous under Aquatic Chronic Environment category.

**Persistence and degradability** Biodegrades slowly.

**Bioaccumulative potential** Bioconcentration may occur.

**Mobility in soil** This material is expected to have essentially no mobility in soil. It absorbs strongly to most soil types.

**Results of PBT and vPvB assessment** No data available.

**Other adverse effects** Not determined

## 13. DISPOSAL CONSIDERATION

### 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. TRANSPORTATION

**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

**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

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**International 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** - 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**

<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



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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****Data for Regulatory Rules**

Region	Template name	Revision Note
Canada	HGHS	2.0

**GHS Product Information**

Physical state Liquid  
 Flash point °C 237-226

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

Not Hazardous

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

Signal word

Precautionary Statements

Disposal

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