

# Safety Data Sheet

Issuing Date 28-Feb-2022	Revision date 28-Feb-2022	Revision Number 1	
1. PRODUCT AND COMPANY IDENTIFICATION			
Material Name	BOSS Synthetic Blend Automotive Engine Oil		
Includes Grades	0W20, 5w20, 5w30, 10w30		
Other means of identification			
Product Code(s)	GHSRBS-101		
Product use	For lubricating passenger car motors. If these products are used products, refer to the Material Safety Data Sheet for those prod		
Synonyms	Synthetic petroleum oil; lube oil; petroleum hydrocarbon; lubric	ant.	
Restrictions on use	No information available		
Details of the supplier of the safety data sheet	_		
Initial supplier identifier	Manufacturer Address		
BOSS Lubricants	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.
Signal Word	None
Hazard Statements	None needed according to classification criteria.
Precautionary Statements	
Prevention	None known
Response	None known
Storage	None known
Disposal	Dispose of contents/containers in accordance with local, regional, national, and international regulations as applicable.
Hazards not otherwise classified	Repeated exposure may cause skin dryness or cracking.





# **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)
Distillates (petroleum), hydrotreated light naphthenic	64742-53-8	0-100	-	
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	0-100	-	
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	0-100	-	
Distillates (petroleum), solvent- dewaxed light paraffinic	64742-56-9	0-100	-	
Distillates (petroleum), solvent- dewaxed heavy paraffinic	64742-65-0	0-100	-	
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0	0-100	-	
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	72623-87-1	0-5	-	
Mineral oil	8042-47-5	0-15	-	
Distillates (Fischer-Tropsch), heavy, C18- 50-branched, cyclic and linear	848301-69- 9	20-30	-	
Phosphorodithioic acid, O,O-di-C1-14- alkyl esters, zinc salts	68649-42-3	0-2	-	

# 4. FIRST AID MEASURES

## Description of first aid measures

Inhalation	Remove victim to fresh air. If not breathing, give artificial respiration. If exposed or concerned, get medical advice/attention.
Eye contact	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.
Skin	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if symptoms occur.
Ingestion	Immediately call a poison center or doctor/physician. Do not induce vomiting. Seek medical attention if symptoms develop.
Most important symptoms and effect	ts

Acute	No information on significant adverse effects.
Delayed	No information on significant adverse effects.





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

Notes to physician

Treat symptomatically and supportively. Treatment may vary with condition of victim and specifics of incident. Call 1-800-844-9457 for additional information.

5. FIRE FIGHTING MEASURES	
Suitable Extinguishing Media	Carbon dioxide, regular foam, dry chemical, water spray, or water fog. Water or foam may cause frothing.
Unsuitable extinguishing media	None known
Specific hazards arising from the substance or mixture	Negligible fire hazard. "Empty" containers may retain residue and can be dangerous. Product is not sensitive to mechanical impact or static discharge.
Hazardous Combustion products	Decomposition and combustion materials may be toxic. Burning may produce aldehydes, hydrogen sulfide, alkyl mercaptans, sulfides, carbon monoxide, and oxides of sulfur, calcium and zinc and other unidentified organic compounds.
Conditions of flammability	Sparks, or flame. Product may burn but does not ignite readily.
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.
Fire-fighting instructions	Keep storage containers cool with water spray.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures			
Personal precautions	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. Additionally, for large spills: Dike far ahead of liquid spill for collection and later disposal. 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.		

7. HANDLING AND STORAGE	
Precautions for safe handling	Keep away from sparks and 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. This product has a low vapor pressure and is not expected to present an inhalation hazard under normal temperatures and pressures. However, when aerosolizing, misting, or heating this product, do not breathe vapor or mist. Use in a well-ventilated area. Avoid contact with eyes, skin, clothing, and shoes.

#### Conditions for safe storage, including any incompatibilities

Conditions for safe 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 flame, sparks, static electricity, or other sources of ignition. Empty product containers may retain product residue and can be dangerous.

Strong oxidizing agents.

# Materials to avoid/chemical incompatibility

8. EXPOSURE CONTROLS /	PERSONAL PROTECTION

Component Exposure limits	Canada, OSHA, NIOSH, and ACGIH have not developed exposure limits for any of this product's components.
Appropriate 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
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.
Eye/Face protection	Wear safety glasses with side shields (or goggles). If splashes are likely to occur, wear safety glasses with side-shields. Avoid contact with eyes. Eye wash fountain and emergency showers are recommended. Contact lens use is not recommended.
Glove recommendations	Where skin contact is likely, wear chemical impervious protective gloves; use of natural rubber or equivalent gloves is not recommended. When products are 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, and lab coat or apron.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

## Information on basic physical and chemical properties

Physical state	Liquid	
Appearance	Amber	
Color	Amber	
Odor	Petroleum distillates	
Odor threshold	No information available	
<u>Property</u>	<u>Values</u>	<u>Remarks</u>
рН	No data available	None known
Melting point/freezing point	No data available	None known
Boiling point/boiling range	246°C/475°F (min)	ASTM D7213
Freezing point	No data available	None known
Evaporation Rate	No data available	None known
Flash point	228°C – 236°C	ASTM D92
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		





Upper flammability or explosive	No data available	None known	
Limits			
Lower flammability or explosive	No data available	None known	
Limits			
Vapor Pressure	No data available	None known	
Vapor Density	No data available	None known	
Relative gravity	No data available	None known	
Density	No data available	None known	
Volatility	No data available	None known	
Relative Density (@ 15°C)	0.85 – 0.87	ASTM D1298	
Specific Gravity(water=1)	No data available	None known	
Water Solubility	Insoluble in water	None known	
n-Octanol/			
Water Partition coefficient	No data available	None known	
Pour point	-40 °C to -37 °C	ASTM D97	
Autoignition temperature	No data available	None known	
Decomposition temperature	No data available	None known	
Kinematic Viscosity	50 67.2 cST @ 40°C	ASTM D445	
Dynamic Viscosity	No data available	None known	
Other information			
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	Stable.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	Heat, flames and sparks.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Thermal decomposition can lead to release of irritating and toxic gases and vapors.

11. TOXICOLOGICAL INFORMATION		
Basis for assessment	Information given is based on data on the components and the toxicology of similar products. Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual component(s).	
Information on likely routes of exposure	Skin and eye contact are the primary routes of exposure although exposure may occur following accidental ingestion.	
Acute toxicity		





Acute oral toxicity	LD50 (rat): > 5,000 mg/kg Expected to be of low toxicity
Acute inhalation toxicity	Not considered to be an inhalation hazard under normal conditions of use.
Acute dermal toxicity	LD50 (Rabbit): > 5,000 mg/kg Expected to be of low toxicity:
Skin corrosion/irritation	Expected to be slightly irritating. Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.
Serious eye damage/eye irritation	Expected to be slightly irritating.
Respiratory or skin sensitisation	Not expected to be a skin sensitizer.
Germ cell mutagenicity	
Genotoxicity in vivo	Not considered a mutagenic hazard.
Carcinogenicity	Not expected to be carcinogenic. Product contains mineral oils of types shown to be non-carcinogenic in animal skinpainting studies. Highly refined mineral oils are not classified as carcinogenic by the International Agency for Research on Cancer (IARC).
Reproductive toxicity	Not expected to impair fertility. Not expected to be a developmental toxicant.
STOT - single exposure	Not expected to be a hazard.
STOT - repeated exposure	Not expected to be a hazard.
Aspiration toxicity	Not considered an aspiration hazard.
Further information	Used oils may contain harmful impurities that have accumulated during use. The concentration of such impurities will depend on use and they may present risks to health and the environment on disposal. ALL used oil should be handled with caution and skin contact avoided as far as possible. Continuous contact with used engine oils has caused skin cancer in animal tests. Slightly irritating to respiratory system

## **12. ECOLOGICAL INFORMATION**

Basis for assessment Ecotoxicity	Ecotoxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the ecotoxicology of similar products. Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual component(s). (LL/EL/IL50 expressed as the nominal amount of product required to prepare aqueous test extract).
Toxicity to fish	Expected to be practically non toxic:
(Acute toxicity)	LL/EL/IL50 > 100 mg/l
Toxicity to crustacean	Expected to be practically non toxic:
(Acute toxicity)	LL/EL/IL50 > 100 mg/I
Toxicity to algae/aquatic plants	Expected to be practically non toxic:
(Acute toxicity)	LL/EL/IL50 > 100 mg/I
Toxicity to fish (Chronic toxicity)	Data not available
Toxicity to crustacean (Chronic toxicity)	Data not available





Toxicity to microorganisms (Acute toxicity)	Data not available
Persistence and degradability	
Biodegradability	Expected to be not readily biodegradable. Major constituents are expected to be inherently biodegradable but contains components that may persist in the environment.
<b>Bioaccumulative potential</b>	
Bioaccumulation	Contains components with the potential to bioaccumulate.
Partition coefficient: noctanol/water	Pow: > 6 (based on information on similar products <b>)</b>
Mobility in soil	
Mobility	Liquid under most environmental conditions. If it enters soil, it will adsorb to soil particles and will not be mobile. Floats on water.
Other adverse effects	
Additional ecological information	Product is a mixture of non-volatile components, which are not expected to be released to air in any significant quantities. Not expected to have ozone depletion potential, photochemical ozone creation potential or global warming potential. Poorly soluble mixture. May cause physical fouling of aquatic organisms. Mineral oil is not expected to cause any chronic effects to aquatic organisms at concentrations less than 1 mg/l.

## **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
 Not applicable

 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 Inventorie	es
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 I	16. OTHER INFORMATION							
NFPA	Health hazards	0	Flammability	1	Instability	0	Physical and chemical properties	-
<u>HMIS</u>	Health hazards	0	Flammability	1	Physical hazards	0	Personal protection	х
Key or legend to	o abbreviations and a	acronym	ns used in the safety	data sheet	-			
Legend Section	8: EXPOSURE CONTR	OLS/PEF	SONAL PROTECTION	u				
TWA	TWA (time-we	-	iverage)	STEL *	-	•	t Term Exposure Limit)	
Ceiling	Maximum limit				SKI	n designa	tion	
Key literature re	ferences and source	s for dat	ta used to compile th	e SDS				
U.S. Environmen European Food S EPA (Environmen Acute Exposure O U.S. Environmen Protection Agen Food Research Jo Hazardous Subst International Un Japan GHS Classi Australia National NIOSH (National National Library National Library National Toxicolo New Zealand's C Organization for	cy High Production V ournal cance Database iform Chemical Infor fication al Industrial Chemica Institute for Occupat of Medicine's Chemil of Medicine's PubMe ogy Program (NTP) hemical Classification Economic Co-operat	y Chem A) EGL(s)) Y Federa olume C mation I Is Notific tional Sa D Plus (N ed datab	View Database Il Insecticide, Fungicio hemicals Database (IUCLID) cation and Assessmer fety and Health) NLM CIP)	nt Scheme ( CCID) nment, Hea	NICNAS) Ith, and Safety Publi	cations	ntal	



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	228 - 236	
Boiling point	246 (minimum)	
Component Information		

## Canada

#### **GHS Classification**

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



