

# **Safety Data Sheet**

Issuing Date 05-Nov-2022 Revision date 05-Nov-2022 Revision Number 1

1. PRODUCT AND COMPANY IDENTIFICATION

Material Name BOSS High Mileage Synthetic Blend Automotive Engine Oil

Includes Grades 0w20, 5w20, 5w30

Other means of identification

Product Code(s) GHSRBS-101

Product use For lubricating passenger car motors with high mileage over 100,000 km. If these products

are used in combination with other products, refer to the Material SDS for those products.

Synonyms Synthetic petroleum oil; lube oil; petroleum hydrocarbon; lubricant.

Restrictions on use No information available

Details of the supplier of the safety data sheet

<u>Initial supplier identifier</u> <u>Manufacturer Address</u>

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** 

PreventionNone knownResponseNone knownStorageNone 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<br>Information Review Act<br>registry number (HMIRA<br>registry #) | Date HMIRA filed and<br>date exemption<br>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-<br>dewaxed light paraffinic                | 64742-56-9   | 0-100    | -   |   |
| Distillates (petroleum), solvent-<br>dewaxed heavy paraffinic                | 64742-65-0   | 0-100    | -   |   |
| Lubricating oils (petroleum), C15-30,<br>hydrotreated neutral oil-based      | 72623-86-0   | 0-100    | -   |   |
| Lubricating oils (petroleum), C20-50,<br>hydrotreated neutral oil-based      | 72623-87-1   | 0-5      | -   |   |
| Mineral oil  | 8042-47-5    | 0-15     | -   |   |
| Distillates (Fischer-Tropsch), heavy, C18-<br>50-branched, cyclic and linear | 848301-69- 9 | 20-30    | -   |   |
| Phosphorodithioic acid, O,O-di-C1-14-<br>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 effects

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

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

Wear personal protective clothing and equipment, see Section 8. Personal precautions

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

Keep container tightly closed when not in use and during transport. Store containers in a cool, dry Conditions for safe storage

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.

Materials to avoid/chemical

incompatibility

Strong oxidizing agents.

### 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

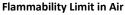
### Information on basic physical and chemical properties

Physical stateLiquidAppearanceAmberColorAmber

Odor Petroleum distillates
Odor threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks</u>

No data available None known Нα No data available Melting point/freezing point 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







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 No data available Relative gravity 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 -40 °C to -37 °C ASTM D97 Pour point **Autoignition temperature** No data available None known **Decomposition temperature** No data available None known 50.- 67.2 cST @ 40°C **Kinematic Viscosity** 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

Information given is based on data on the components and the toxicology of similar products. Unless Basis for assessment

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 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).

**Ecotoxicity** 

**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/l

Toxicity to algae/aquatic plants

Expected to be practically non toxic:

(Acute toxicity) LL/EL/IL50 > 100 mg/l

**Toxicity to fish (Chronic toxicity)** Data not available

Toxicity to crustacean

Data not available

(Chronic toxicity)





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.

**Bioaccumulative potential** 

**Bioaccumulation** Contains components with the potential to bioaccumulate.

Partition coefficient: noctanol/water Pow: > 6

(based on information on similar products)

**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

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

products

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** 

The Montreal Protocol on Substances that Deplete the Ozone LayerNot applicableThe Stockholm Convention on Persistent Organic PollutantsNot applicableThe Rotterdam ConventionNot 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            |

HMIS 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**

# **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 None needed according to classification criteria.

Signal word None

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



