

SAFETY DATA SHEET

Issuing Date 8-Nov-21 Revision date 8-Nov-21 Revision Number 1

1. PRODUCT AND COMPANY IDENTIFICATION

Material Name Boss Synthetic GL-5 Gear Oils

75w-90/75w-140/80w-140

Other means of identification

Product Code(s) GHSRBS-128
Product use Gear Oil

Recommended use of the chemical and restrictions on use

Recommended use 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 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

None needed according to classification criteria

Label Elements No classified hazards

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)
Highly Hydrotreated Paraffinic base oils	64742-54-7, 64742-55-8	70-99	-	
PAO Synthetic Base Oils	68037-01-04, 68037-01-04, 68649-12-7, 163149-29-9, 151006-63-2, 151006-62-1, 151006-60-9	70-99	-	
Ester Synthetic Base Oils	27178-16-1, 16958-92-2	70-99	-	
Phosphoric Acid Esters, Amine Salt	91745-46-9	1-5	-	

Olefin Sulfide	68937-96-2	1-5	-	
Polualkylmethacryate (PMA) Viscosity Modifier	9011-14-7	<5	-	
Poly Methyl Methacrylate Ester	8012-95-1	<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

Description of first aid measures

Inhalation This material has a low vapor pressure and is not expected to present an inhalation exposure at ambient

conditions. If vapor or mist is generated when the material is heated, and the victim experiences signs of

respiratory tract irritation, remove to fresh air.

Eye contactNo specific first aide measures are required. In case of contact, immediately flush eyes with large amounts

of water and continue flushing until irritation subsides. If material is hot, treat for thermal burns and seek

immediate medical attention. Remove contact lenses, if present and easy to do.

Skin No specific first aid measures are required. In case of contact, no treatment is necessary under ordinary

circumstances. Remove contaminated clothing. Wash contaminated area thoroughly with soap and water. If material is hot, submerge injured area in cold water. If victim is severely burned, remove to a hospital

immediately.

Ingestion No treatment is necessary under ordinary circumstances. Do not induce vomiting. This material does not

present any known ingestion hazard.

Most important symptoms and effects, both acute and delayed

Dry skin and possible irritation with repeated or prolonged exposure. Inhalation of oil mists or vapors generated at elevated temperatures may cause respiratory irritation. Accidental ingestion can result in

minor irritation of the digestive tract, nausea, and diarrhea.

Note to physicians Acute aspirations of large amounts of oil-laden material may produce serious aspiration pneumonia.

Patients who aspirate these oils should be followed for the development of long-term sequelae. Inhalation exposure to oil mists below current workplace exposure limits is unlikely to cause pulmonary abnormalities.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media

Use dry chemical, foam, water spray or fog, or carbon dioxide CO2 to extinguish flames

Protection of fire-fighters

Fire fighting instructions: This material will burn although it is not easily ignited. See section 7 for proper handling and storage. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing

apparatus.

Combustion products

Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion.

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6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures

Protective measures Eliminate all sources of ignition in vicinity of spilled material.

Accidental Release Measures Stop the source of the leak or release. Clean up releases as soon as possible, observing precautions in

Exposure Controls/ Personal Protection. Contain liquid to prevent further contamination of soil, surface water, or ground water. Clean up small spills using appropriate techniques such as sorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Recommended measures are based on the most likely spillage scenarios for this material; however, local conditions and regulations may

influence or limit the choice of appropriate actions to be taken.

Reporting Follow prescribed procedures for reporting and responding to larger releases. Report spills to local

authorities and/or the U.S. Coast Guard's National Response Center at (800) 424-8802 as appropriate or

required.

7. HANDLING AND STORAGE

Container warnings

Precautions Measures Do not get in eyes, on skin, or on clothing. Keep out of the reach of children. Wash thoroughly after

handling.

General handling information Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

Static Hazard Electrostatic charge may accumulate and create a hazardous condition when handling this material. To

minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations which have the potential of generating and accumulating an electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures. For more information, refer to OSHA Standard 29 CFR 1910.106, 'Flammable and combustible liquids', National Fire Protection Association (NFPA 77, 'Recommended Practice on Static Electricity', and/or the American Petroleum Institute (API) Recommended Practice 2003, 'Protection Against

Ignitions Arising out of static, lightning, and stray currents'.

Conditions for safe storage

Keep container(s) tightly closed and properly labeled. Use and store this material in cool, dry, well-ventilated area away from heat and all sources of ignition. Store only in approved containers. Keep away

from any incompatible material. Protect container(s) against physical damage.

Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. "Empty" containers retain residue and may be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury or death. "Empty" drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum re-conditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations. Before working on or in tanks which contain or have contained this material, refer to OSHA regulations, ANDI Z49.1, and other

references pertaining to cleaning, repairing, welding, or other contemplated operations.





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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Mineral oil, as a mist, is regulated by Provincial authorities and range from 0.2 mg/m (British Columbia) to 5 **Exposure Limits**

mg/m³ (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

Wear safety glasses with side shields (or goggles). Avoid contact with eyes. Eye/face protection

Hand protection Wear suitable gloves.

Skin and 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 practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid

Appearance Bright Amber Odor Petroleum odor

Odor threshold No information available

Property Values Remarks рΗ No data available None known Melting point/freezing point No data available None known **Initial Boiling point** 599°F(315°C) None known **Boiling point range** No data available None known No data available Freezing point None known **Evaporation Rate** <1 ASTM D972 Flash point Min 302°F(150°C) ASTM D92 Percentile volatile Negligible None known None known Flammability (solid, gas) No data available 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 <0.01 mmHg @ 100°C(212°F) ASTM D323 **Vapor Density** None known Density No data available None known Volatility No data available None known Relative Density (@ 15°C) No data available None known

Specific Gravity(water=1)<1</th>ASTM D792SolubilitySoluble in hydrocarbons, insoluble inNone known

n-Octanol/ water

Water Partition coefficientNo data availableNone knownAutoignition temperatureNo data availableNone knownDecomposition temperatureNo data availableNone knownViscosity6.0-30.5 cStASTM D445Dynamic ViscosityNo data availableNone known

Other information

Explosive Properties

Oxidizing Properties

No information available

VOC Content (%)

Liquid Density

No information available

No information available

No information available

10. STABILITY AND REACTIVITY

Reactivity Stable.

Chemical stability
 Possibility of hazardous reactions
 Conditions to avoid
 Stable under normal conditions.
 None under normal processing.
 Heat, flames and sparks.

Incompatible materials Strong oxidizing agents. Acids.

Hazardous decomposition products Thermal decomposition can lead to release of irritating and toxic gases and vapors.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation No known hazard by inhalation.

Eye contactNot expected to cause eye irritation.Skin contactNo known hazard in contact with skin.IngestionNo known hazard by swallowing.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Acute toxicity

Numerical measures of toxicity No information available







Unknown acute toxicity No information available

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

Skin corrosion/irritationBased on available data, the classification criteria are not met.Serious eye damage/eye irritationBased on available data, the classification criteria are not met.Respiratory or skin sensitizationBased on available data, the classification criteria are not met.Germ cell mutagenicityBased on available data, the classification criteria are not met.CarcinogenicityBased on available data, the classification criteria are not met.

Reproductive toxicityContains a known or suspected reproductive toxin. May cause harm to the unborn child.

STOT - single exposure

Based on available data, the classification criteria are not met.

STOT - repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard Not applicable.

12. ECOLOGICAL INFORMATION

Ecotoxicity Harmful to aquatic life with long lasting effects.

Persistence and degradability

No information available.

No information available.

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused Dispose of in accordance with local regulations. Dispose of waste in accordance with

products environmental legislation.

Contaminated packaging Do not reuse empty containers.

14. TRANSPORT INFORMATION

Transport CanadaNot regulatedTDGNot regulatedDOTNot 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

Internal Inventories

TSCA Complies
DSL/NDSL Complies

EINECS/ELINCS

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

NFPA 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	Canada HGHS		

GHS Product Information

Physical state Liquid

Flash point °C - 302°F(150°C) min Boiling point / boiling range °C 599°F(315°C)

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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

