

1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER(S): BOSS Full Synthetic Gear Oils 75W90 75W140 GL-5

COMPANY IDENTIFICATION

Boss Lubricants
112, 6303 30 St. SE
Calgary, AB
T2C 1R4

Issue Date: January 1, 2015
Supersedes Issue: January 1, 2012

EMERGENCY TELEPHONE NUMBERS

Business: (800) 844-9457

Fax #: (403) 279-2272

CHEMTREC EMERGENCY NUMBER (24 hr): (800) 424-9300

2: COMPOSITION/INFORMATION ON INGREDIENTS

CONTAINING

| COMPONENTS | AMOUNT | LIMIT/QTY | AGENCY/TYPE |
|---------------------------------------|----------|-----------------|-------------|
| LUBRICATING BASE OIL* | > 95.00% | 5 mg/m3 (mist) | ACGIH TWA |
| SEVERELY REFINED PETROLEUM DISTILLATE | | 10 mg/m3 (mist) | ACGIH STEL |
| | | 5 mg/m3 (mist) | OSHA PEL |

ADDITIVES < 5.00%

*The BASE OIL may be a mixture of any of the following: CAS 64741884, CAS 64741895, CAS 64741964, CAS 64741975, CAS 64742014, CAS 64742525, CAS 64742536, CAS 64742547, CAS 64742627, CAS 64742650, or CAS 72623837.

COMPOSITION COMMENT:

All the components of this material are on the Toxic Substances Control Act Chemical Substances Inventory.

This product fits the ACGIH definition for mineral oil mist. The ACGIH TLV is 5 mg/m3, the OSHA PEL is 5 mg/m3.

3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

- CAUSES SEVERE EYE IRRITATION AND INJURY
- SPECIAL HAZARDS INFORMATION FOR MAN AND ENVIRONMENT

4: FIRST AID MEASURES

- EYE:** No specific first aid measures are required because this material is not expected to cause eye irritation. As a precaution remove contact lenses, if worn, and flush eyes with water.
- SKIN:** No specific first aid measures are required because this material is not expected to be harmful if it contacts the skin. As a precaution, remove clothing and shoes if contaminated. Use a waterless hand cleaner, mineral oil, or petroleum jelly to remove the material. Then wash skin with soap and water. Wash or clean contaminated clothing and shoes before reuse.
- INGESTION:** No specific first aid measures are required because this material is not expected to be harmful if swallowed. Do not induce vomiting. As a precaution, give the person a glass of water or milk to drink and get medical advice.

5: FIRE FIGHTING MEASURES

FIRE CLASSIFICATION: Classification (29 CFR 1910.1200): Not classified by OSHA as flammable or combustible.

FLAMMABLE PROPERTIES:

FLASH POINT: (COC) 324-547F (162-286C) Min.

AUTOIGNITION: NDA

FLAMMABILITY LIMITS (% by volume in air): Lower: NA Upper: NA

EXTINGUISHING MEDIA: CO2, Dry Chemical, Foam, Water Fog

NFPA RATINGS: Health 0 Flammability 1

Reactivity 0.



FIRE FIGHTING INSTRUCTIONS: This material will burn although it is not easily ignited.
COMBUSTION PRODUCTS: Normal combustion forms carbon dioxide and water vapor; incomplete combustion can produce carbon monoxide.

6: ACCIDENTAL RELEASE MEASURES

CHEMTREC EMERGENCY NUMBER (24 hr): (800)424-9300 or (202)483-7616

ACCIDENTAL RELEASE MEASURES: This material may be toxic to aquatic organism and should be kept out of sewage and drainage systems and all bodies of water. Stop the source of the leak or release. Clean up releases as soon as possible. Contain liquid to prevent further contamination of soil, surface water or groundwater. Clean up small spills using appropriate techniques such as sorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Follow prescribed procedures for reporting and responding to larger releases.

7: HANDLING AND STORAGE

Do not use pressure to empty drum or drum may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty drums should be completely drained, properly bunged, and promptly returned to a drum reconditioner, or properly disposed of. Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water. Do not breathe oil mist at concentrations above the recommended exposure limits.

8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Use in a well-ventilated area. If user operations generate an oil mist, use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below the recommended exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE PROTECTION: No special eye protection is normally required. Where splashing is possible, wear safety glasses with side shields as a good safety practice.

SKIN PROTECTION: No special protective clothing is normally required. Where splashing is possible, select protective clothing depending on operations conducted, physical requirements and other substances. Suggested materials for protective gloves include: Nitrile, Silver Shield, Viton, and/or 4H.

RESPIRATORY PROTECTION: No special respiratory protection is normally required. If user operations generate an oil mist, determine if airborne concentrations are below the recommended exposure limits. If not, select a NIOSH/MSHA approved respirator that provides adequate protection from concentrations of this material. Use the following elements for air-purifying respirators: particulate.

Avoid prolonged and/or repeated contact with skin.

9: PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--|--|
| PHYSICAL DESCRIPTION: | Light to dark amber liquid. |
| pH: | NDA |
| VAPOR PRESSURE: | NA |
| VAPOR DENSITY (AIR=1): | NA |
| BOILING POINT: | NDA |
| FREEZING POINT: | NDA |
| MELTING POINT: | NA |
| SOLUBILITY: | Soluble in hydrocarbon solvents; insoluble in water. |
| SPECIFIC GRAVITY: | 24-26.3 @ 60 F |
| VOLATILE ORGANIC COMPOUNDS (VOC): | NDA |
| EVAPORATION RATE: | NA |



VISCOSITY: 90-138 SUS @ 210 F
PERCENT VOLATILE (VOL): NA

10: STABILITY AND REACTIVITY

STABILITY: Stable under moderately elevated temperatures and pressures.
INCOMPATIBILITY: Avoid contact with strong oxidants.
HAZARDOUS POLYMERIZATION: Will not occur.
HAZARDOUS DECOMPOSITION: Toxic oxides of carbon, aldehydes and other products of incomplete combustion.

11: TOXICOLOGICAL INFORMATION

EYE EFFECTS: The eye irritation hazard is based on an evaluation of the data for the components.
SKIN EFFECTS: The skin irritation hazard is based on an evaluation of the data for the components.
ACUTE ORAL EFFECTS: The acute oral toxicity is based on an evaluation of the data for the components.
ACUTE INHALATION EFFECTS: The acute respiratory toxicity is based on an evaluation of the data for the components.

ADDITIONAL TOXICOLOGY INFORMATION: This product contains petroleum base oils which may be refined by various processes including severe solvent extraction, severe hydrocracking, or severe hydrotreating. None of the oils requires a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as; carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B).

12: ECOLOGICAL INFORMATION

ECOTOXICITY: The 96-hour LC50 in rainbow trout (*Oncorhynchus mykiss*) is >5000 mg/l.
ENVIRONMENTAL FATE: This material is not expected to be readily biodegradable.

13: DISPOSAL CONSIDERATIONS

Oil collection services are available for used oil recycling or disposal. Place contaminated materials in containers and dispose of in a manner consistent with applicable regulations. Contact your sales representative or local environmental or health authorities for approved disposal or recycling methods.

14: TRANSPORT INFORMATION

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

DOT SHIPPING NAME: NOT DESIGNATED AS A HAZARDOUS MATERIAL BY THE FEDERAL DOT
DOT HAZARD CLASS: NOT APPLICABLE
DOT IDENTIFICATION NUMBER: NOT APPLICABLE
DOT PACKING GROUP: NOT APPLICABLE
TDG: NOT DESIGNATED AS A HAZARDOUS MATERIAL

15: REGULATORY INFORMATION

SARA 311 CATEGORIES:

1. Immediate (Acute) Health Effects: NO
2. Delayed (Chronic) Health Effects: NO
3. Fire Hazard: NO
4. Sudden Release of Pressure Hazard: NO



5. Reactivity Hazard: NO

EEC RISK AND SAFETY STATEMENTS: May cause long-term adverse effects in the aquatic environment.

NEW JERSEY RTK CLASSIFICATION: Under the New Jersey Right-to-Know Act L. 1983 Chapter 315 N.J.S.A. 34:5A-1 et. seq., the product is to be identified as follows: PETROLEUM OIL

WHMIS CLASSIFICATION: This product is not considered a controlled product according to the criteria of the Canadian Controlled Products Regulations.

16. OTHER INFORMATION

NFPA RATINGS: Health 0; Flammability 1; Reactivity 0;

HMIS RATINGS: Health 1; Flammability 1; Reactivity 0;

(0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:- Personal

Protection Equipment Index recommendation, *- Chronic Effect Indicator). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

REVISION STATEMENT: This is a new Material Safety Data Sheet.

ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

TLV - Threshold Limit Value

TWA - Time Weighted Average

STEL - Short-term Exposure Limit

TPQ - Threshold Planning Quantity

RQ - Reportable Quantity

PEL - Permissible Exposure Limit

C - Ceiling Limit

CAS - Chemical Abstract Service Number

A1-5 - Appendix A Categories

() - Change Has Been Proposed

NDA - No Data Available

NA - Not Applicable

Prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200) and the ANSI MSDS Standard (Z400.1).

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modification of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.