



SAFETY DATA SHEET

Section 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: BOSS Synthetic EP Gear Oil 150,220,320,460
COMMON NAME: Synthetic Gear and Bearing Oil (ISO 150,220,320,460)
CHEMICAL NAME: Lubricating Oil

CHEMICAL FORMULA: Mixture
CHEMICAL FAMILY: Hydrocarbon

Boss Lubricants
 112, 6303 30 St. SE
 Calgary, AB
 T2C 1R4
Issue Date: Jan 1, 2015
 Supersedes Issue: January 1, 2012

Emergency Phone Number(s)
Business: (800) 844-9457
Fax #: (403) 279-2272

Section 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

POTENTIAL HEALTH EFFECTS

ROUTES OF ENTRY: (Eye Contact, Dermal, Inhalation.)

ACUTE EFFECTS OF OVER EXPOSURE:

- Eyes:** Contact with eyes may cause irritation.
- Skin:** Contact with skin may cause irritation.
- Inhalation:** May cause irritation of the nose and throat.
- Ingestion:** May cause nausea and vomiting. Large quantities may affect the central nervous system.

CHRONIC EFFECTS OF OVER EXPOSURE: No adverse effects anticipated.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Existing dermatitis and respiratory conditions.

Mutagenicity: No data available to indicate product present at greater than 1.0% present a mutagenic or genotoxic hazard.

Reproductive Toxicity: No data available to indicate product present at greater than 1.0% a reproductive hazard.

Teratogenicity: No data available to indicate product present at greater than 1.0% present a teratogenicity hazard.

CARCINOGENICITY: NTP: No IARC: No OSHA: No

Section 3: COMPOSITION AND INFORMATION ON INGREDIENTS

INGREDIENTS	PERCENTAGES (by weight)	PEL (OSHA)	TLV (ACGIH)	CAS #
1-Decene, Homopolymer, Hydrogenated Base	85-95%	N/A	5 mg/m ³ TWA (Oil Mist)	Mixture
Performance Additives	Proprietary	N/A	N/A	N/A

(TWA) - Time Weighted Average is the employee's average airborne exposure in any 8-hour work shift of a 40-hour work week which shall not be exceeded.
 (STEL) - Short Term Exposure Limit is the employee's 15-minute time weighted average exposure which shall not be exceeded at any time during a work day unless another time limit is specified.





Section 4: FIRST AID MEASURES

EMERGENCY AND FIRST AID PROCEDURES:

- Eye Contact:** If material comes in contact with the eyes, immediately wash the eyes with large amounts of water for 15 minutes, occasionally lifting the lower and upper lids. Get medical attention.
- Skin Contact:** If the material comes in contact with the skin, wash the contaminated skin with soap and water promptly. If the material penetrates through clothing, remove the clothing and wash the skin with soap and water promptly. If irritation persists after washing, get medical attention immediately.
- Inhalation:** If person breathes in large amounts of material, move the exposed person to fresh air at once. If breathing has stopped, perform artificial respiration. Keep the person warm and at rest. Get medical attention as soon as possible.
- Ingestion:** If material has been swallowed, do not induce vomiting. Get medical attention immediately.

Section 5: FIRE - FIGHTING MEASURES

FLASH POINT: >490°F (>255°C) **AUTO IGNITION TEMP:** ND

FLAMMABLE LIMITS IN AIR	LOWER	UPPER
% BY VOLUME	N/A	N/A

EXTINGUISHING MEDIA: Use water spray to cool fire exposed surfaces and to protect personnel. Use foam, dry chemical or water spray (fog) to extinguish fire.

SPECIAL FIRE FIGHTING PROCEDURES: When fighting fires wear full turnout gear and self contained breathing apparatus. Water may cause splattering. Material floats on water.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Toxic fumes gases or vapors may evolve on burning.

HAZARD RATINGS:	NFPA 704:	Health- <u>1</u>	Fire- <u>1</u>	Reactivity- <u>0</u>
	HMIS:	Health- <u> </u>	Fire- <u> </u>	Reactivity- <u> </u>

Section 6: ACCIDENTAL RELEASE MEASURES

STEPS TO TAKE IF MATERIAL IS RELEASED OR SPILLED: Personal protective equipment should be worn. Ventilate area if confined or poorly ventilated. Contain with dikes or absorbent to prevent migration to sewers/streams. Take up small spill with dry chemical absorbent; large spills may require pump or vacuum prior to absorbent. May require excavation of severely contaminated soil. Avoid contact with skin and eyes.

Section 7: HANDLING AND STORAGE

HANDLING AND STORING: Store in closed container away from all ignition sources. Handling temperatures should not exceed 175°F (80°C). Wash thoroughly after handling. Do not store at temperatures exceeding 113°F (45° C). Odorous and toxic fumes may form from the decomposition of this product if stored at excessive temperatures for extended periods of time. Open containers carefully and only in well ventilated areas or use appropriate respiratory protection. Store in well ventilated area.

Section 8: EXPOSURE CONTROL - PERSONAL PROTECTION

- ENGINEERING CONTROLS:** Ventilate to control mists and vapors below exposure limits.
- RESPIRATORY EQUIPMENT:** Normally not required, if exposure limits are exceeded use a Niosh approved organic vapor respirator. Self-contained breathing apparatus is recommended for entry into confined spaces or other poorly ventilated areas and for large spill clean-up sites.
- EYE PROTECTION:** Chemical goggles or faceshield recommended to minimize eye contact.





PROTECTIVE CLOTHING: Impervious (nitrile) gloves recommended when handling material to minimize exposure. Long sleeve shirts, chemically protective aprons and chemically protective boots are recommended for contact exposure or spill clean-up. Do not wear watches, rings or similar apparel that could entrap the material next to the skin.

OTHER (SAFETY SHOWERS, EYE WASH STATIONS, ETC.): Water should be available for flushing and washing when exposure exists. Launder soiled clothes. Discard shoes or other leather articles saturated with the material.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Light Straw Transparent Fluid	ODOR:	Mild hydrocarbon odor
BOILING POINT:	N/D	SPECIFIC GRAVITY (water=1):	0.8400 - 0.8950
VAPOR PRESSURE:	<1 mm Hg 68° F	VAPOR DENSITY (air=1):	N/D
SOLUBLE IN WATER:	Insoluble	EVAPORATION RATE (ether=1):	N/D
pH:	N/D		

Section 10: STABILITY AND REACTIVITY

STABILITY: Stable at room temperature and pressure. See handling and storage section

INCOMPATIBILITY

CONDITIONS TO AVOID: See handling and storage section.

MATERIALS TO AVOID: Acids, oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Smoke, carbon monoxide, aldehydes, hydrogen sulfide and alkyl mercaptans may be released. Under combustion conditions, oxides of the following elements will be formed: Magnesium, calcium, nitrogen, sulfur, and carbon.

HAZARDOUS POLYMERIZATION: Will not occur.

Section 11: TOXICOLOGY INFORMATION

ACUTE EXPOSURE

Eye Irritation: Moderate to strong eye irritation. Based on data from components or similar material.

Skin Irritation: Not expected to be a primary skin irritant, based on data from components or similar material. Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis. Symptoms may include redness, edema, drying, defatting, and cracking of skin.

Respiratory Irritation: If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract similar to that observed with mineral oil. Based on data from components or similar materials. Under good industrial hygiene practices where all exposure limits are observed, respiratory irritation should not be a problem.

Section 12: ECOLOGICAL INFORMATION

No data available on the adverse effects of this product on the environment.

Section 13: DISPOSAL CONSIDERATION

WASTE DISPOSAL PROCEDURES: Place contaminated materials in a disposable container and dispose of in accordance with Local, State and Federal environmental regulations.



Section 14: TRANSPORTATION

DOT PROPER SHIPPING NAME: N/A
DOT IDENTIFICATION NUMBER: N/A

DOT HAZARD CLASS: N/A
DOT EMER. RESPONSE GUIDE NO.: N/A

Section 15: REGULATORY INFORMATION

This product does not contain toxic chemicals subject to the reporting requirements of SARA Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

<u>CAS Number</u>	<u>Chemical Name</u>	<u>Percent by Weight</u>
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SARA SECTION 311-312 HAZARD CATEGORIES (40 CFR 370.2):

FIRE: No SUDDEN RELEASE OF PRESSURE: No REACTIVE: No ACUTE: No CHRONIC: No

CANADA: All components are in compliance with the Canadian Environmental Protection Act. This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

Section 16: OTHER INFORMATION

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

Reason for Issue: Expired

THE INFORMATION CONTAINED IN THIS SDS RELATES ONLY TO THE SPECIFIC MATERIAL IDENTIFIED. IT DOES NOT COVER USE OF THAT MATERIAL IN COMBINATION WITH ANY OTHER MATERIAL OR IN ANY PARTICULAR PROCESS. IN COMPLIANCE WITH 29 C.F.R. 1910.1200(g), BOSS LUBRICANTS HAS PREPARED THIS SDS IN SEGMENTS, WITH THE INTENT THAT THOSE SEGMENTS BE READ TOGETHER AS A WHOLE WITHOUT TEXTUAL OMISSIONS OR ALTERATIONS. BOSS LUBRICANTS BELIEVES THE INFORMATION CONTAINED HEREIN TO BE ACCURATE, BUT MAKES NO REPRESENTATION, GUARANTEE, OR WARRANTY, EXPRESS OR IMPLIED, ABOUT THE ACCURACY, RELIABILITY, OR COMPLETENESS OF THE INFORMATION OR ABOUT THE FITNESS OF CONTENTS HEREIN FOR EITHER GENERAL OR PARTICULAR PURPOSES. PERSONS REVIEWING THIS SDS SHOULD MAKE THEIR OWN DETERMINATION AS TO THE MATERIAL'S SUITABILITY AND COMPLETENESS FOR USE IN THEIR PARTICULAR APPLICATIONS.

