

# **BOSS LUBRICANTS: MATERIAL SAFETY DATA SHEET**

PRODUCT NAME: BOSS FULL SYNTHETIC GEAR OILS 75W90,  
75W140, 80W140  
PRODUCT USE: LUBRICATING OIL  
DATE OF ISSUE: 01/01/2012

## **1. COMPOSITION/INFORMATION ON INGREDIENTS**

1-DECENE, HOMOPOLYMER, HYDROGENATED BASE, CAS # mixture  
TLV & PEL: 5mg/m<sup>3</sup> (mist), Approx. Weight: 85-95%

## **2. HAZARDS IDENTIFICATION**

Principle Hazards: CAUSES EYE AND SKIN IRRITATION

## **3. FIRST AID MEASURES**

EYE: Flush with water for 15-20 minutes. Seek medical attention if irritation develops.

SKIN: Wash immediately with soap and water. Remove contaminated clothing and launder before reuse. Discard shoes and leather articles saturated with the product. Obtain medical advice if irritation occurs.

INHALATION: Remove exposed person to fresh air. If breathing has stopped apply artificial respiration. Get immediate medical attention.

INGESTION DO NO INDUCE VOMITING, If conscious, give 2 glasses of water. If Vomiting does occur, keep head below hips to reduce risk of aspiration. Get immediate medical attention.

## **4. FIRE FIGHTING MEASURES**

FLAMMABILITY PROPERTIES:  
FLASH POINT 207°C  
METHOD COC ASTM-D-92  
LFL/UFL Not Determined  
Auto-ignition Temperature: Not Determined

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(FIRE FIGHTING MEASURES cont'd)

EXTINGUISHING MEDIA: Carbon dioxide, dry chemical, alcohol foam and halon.

FIREFIGHTING EQUIPMENT: Full bunker gear recommended including a positive pressure self-contained breathing apparatus.

## **5. ACCIDENTAL RELEASE MEASURES**

Isolate spill area. Provide adequate ventilation. Wear appropriate personal protection. Recover free product for recycle and/or disposal. Add sand, earth or other suitable absorbent to spill area. Prevent other Regulatory Information Section (SARA) for hazardous substances to determine regulatory reporting requirements for spill.

## **6. HANDLING AND STORAGE**

HANDLING: Keep containers close. Avoid contact with eyes, skin or clothing. Wash hands after handling. Empty container may retain product residue which may exhibit hazards of product.

STORAGE: Keep away from heat or flame.

## **7. EXPOSURE CONTROLS/PERSONAL PROTECTION**

VENTILATION: Use adequate general or local exhaust ventilation to keep airborne concentrations below exposure limits.

RESPIRATORY: Use a NIOSH approved respirator when necessary.

SKIN: Use Viton or Nitrile gloves to avoid prolonged or repeated skin contact.

EYE: Use splash goggles or face shield where splashing is expected or can occur.

EXPOSURE LIMITS: The Threshold Limit Value (TLV) of 5 mg/m<sup>3</sup> is suggested for oil mist.

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## **7. PHYSICAL AND CHEMICAL PROPERTIES**

Physical State	Liquid
Solubility in Water	Negligible
Specific Gravity (Water=1)	0.8762 to
Volatility (Volume)	Unknown
VOC	unknown
pH	Not Determined
Coefficient of Water/Oil Distribution	Not Determined
Odor	Aromatic, Hydrocarbon odor
Odor Threshold	Not Determined
Appearance	Light Amber Colored Liquid
Viscosity, cST @ 100°C	14.81 to 27.60
Viscosity, cST @ 40°C	109 to 284
Fire Point	220°C
Brookfield @ - 26°C	133,000 (75w90)
- 40°C	74,000 (75w140/80w140)

## **8. 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.

## **9. TOXICOLOGICAL 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.

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(Toxicological information cont'd)

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.

## **CHRONIC EXPOSURE**

Chronic Toxicity: No data available to indicate product present at greater than 1.0% are chronic health hazards.

Carcinogenicity: No data available to indicate product present at greater than 1.0% are a carcinogenic hazard.

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.

## **ADDITIONAL INFORMATION**

Exposure limits: Under conditions which may generate mists, observe the OSHA PEL of 5 mg per cubic meter, ACGIH STEL of 10 mg per cubic meter.

## **10. ECOLOGICAL INFORMATION**

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

## **11. DISPOSAL CONSIDERATIONS**

Dispose of in accordance with all local, provincial and federal regulations.

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## **12. TRANSPORT INFORMATION**

This product is not classified as hazardous material for DOT shipping. For further information relative to spills resulting from transportation incidents, refer to the latest DOT Emergency Response Guidebook for Hazardous Materials Incidents, DOT 5800.3

## **12. REGULATORY INFORMATION**

OSHA:	Not Applicable
CERCLA:	Not Applicable
SARA (SECTION 313):	Not Applicable
SARA EXTREMELY HAZARDOUS LIST:	This product does not contain greater than 0.1% of any chemical substance on this list.
TSCA INVENTORY:	All components of this material are on the U.S. TSCA Inventory.
CALIFORNIA PROP 65:	This product does not contain any chemical known to the State of California to cause cancer.
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.
JAPAN MITI:	All components have MITI and MOL numbers in Japan.
AUSTRALIA:	All components are in compliance with chemical notification in Australia.
SWITZERLAND:	All components are in compliance with the Environmentally Hazardous Substances Ordinance in Switzerland

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## **13. OTHER INFORMATION**

The information contained herein is based on data considered accurate, however, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Vendor assumes no responsibility for injury or third person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet.

Additionally, vendor assumes no responsibility for injury to vendee or third persons caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.

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