

BOSS LUBRICANTS: MATERIAL SAFETY DATA SHEET

PRODUCT NAME: FULL SYNTHETIC DIESEL ENGINE OIL SAE 0W30, 0W40,5W40,15W40
PRODUCT USE: LUBRICATING FLUID
DATE OF ISSUE: 01/01/2012

1. COMPOSITION/INFORMATION ON INGREDIENTS

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

1-DECENE, MOMOPOLYMER, HYDROGENATED BASE, CAS#MIXTURE
ZINC AND ZINC COMPOUNDS, CAS#MIXTURE
SEE SECTION 8 FOR EXPOSURE LIMITS*

2. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS: Minor eye, inhalation and skin irritant.
SEE SECTION 11 FOR TOXICOLOGICAL INFORMATION

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 is labored give oxygen. If breathing has stopped apply artificial respiration. Get immediate medical attention.

INGESTION: **DO NOT INDUCE VOMITING.** If conscious, give 2 glasses of water. If vomiting does occur, keep head below the hips to reduce risk of aspiration. Get immediate medical attention.

4. FIRE FIGHTING MEASURES

FLAMMABILITY PROPERTIES:

FLASH POINT	224°C
METHOD	COC. ASTM D-92
LFL/UFL	Not Determined
AUTO-IGNITION TEMPERATURE	Not Determined

BOSS LUBRICANTS: MATERIAL SAFETY DATA SHEET

(Fire Fighting measures cont'd)

EXTINGUISHING MEDIA: Carbon Dioxide, dry chemical, and alcohol foam.

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 entry into sewers and waterways. Check under Transportation and Labeling (DOT/CERCLA) and Other Regulator Information Section (SARA) for hazardous substances to determine regulatory reporting requirements for spill.

5. HANDLING & STORAGE

HANDLING: Keep containers closed. 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.

6. 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/m³ is suggested for oil mist.

BOSS LUBRICANTS: MATERIAL SAFETY DATA SHEET

7. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Vapor Density (Air=1)	Negligible
Solubility in Water	Negligible
Specific Gravity	0.8628
Volatility (Volume)	Negligible
pH	Essentially Neutral
Odor	Mild, Bland, Hydrocarbon Odor
Appearance	Amber Transparent Colored Liquid
Viscosity, cST @ 100°C	14.54
Viscosity, cST @ 40°C	91.00
Viscosity Index	166
Refractive Index	1.4664
Fire Point	238°C
Pour point	-45°C
4-Ball Para 1	0.38
4-Ball Para 3	0.55

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 OF PRODUCT: Toxic oxides of carbon, aldehydes and other products of complete combustion.

9. TOXICOLOGICAL INFORMATION

ACUTE EXPOSURE

EYE: 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 the 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

BOSS LUBRICANTS: MATERIAL SAFETY DATA SHEET

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 0.1% 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% present a reproductive hazard.
TERATOGENICITY:	No data available to indicate product present at greater than 1.0% present a teratogenic hazards.

ADDITIONAL INFORMATION

EXPOSURE LIMITS:	Under conditions which may generate mists, observe the OSHA PEL of 5 mg per cubic meter.
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10. ECOLOGICAL INFORMATION

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

11. DISPOSAL CONSIDERATIONS

If this product as supplied becomes a waste, it does not meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

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.

BOSS LUBRICANTS: MATERIAL SAFETY DATA SHEET

13. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

OSHA TABLE Z	Synthetic Base Stock (Mist)
TSCA	Not Applicable
CERCLA 40 CFR 302.4	Zinc Compounds @ 1.30-2.58% RQ 1 lb
SARA TITLE III	
Section 302 Extremely Hazardous	Not Applicable
Section 311/312	
Fire Hazard	Yes
Reactive Hazard	No
Release of Pressure	No
Acute Health Hazard	Yes
Chronic Health Hazard	No
Section 313 Toxic Chemical	Not Applicable

U.S. STATE REGULATIONS

CALIFORNIA (PROP 65)	Does not contain chemicals known to the state of California to Cause cancer.
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INTERNATIONAL REGULATIONS

WHMIS	All components listed.
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14. OTHER INFORMATION

The information contained herein is based on data considered to be 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 measures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third person proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumed the risk in his use of the material.