



Material Safety Data Sheet

FIR No.: 178870
Version Number: US-US-3

Level: 1
Release Date: 2007-01-03

1. Product and Company Identification

Product Name: MOTORCRAFT SUPER DUTY DIESEL MOTOR OIL
Product Code: See Attachment
Application: Diesel engine service fill motor oil
Supplier: Ford Motor Company
Attention: MSDS Information, P.O. Box 1899
Dearborn, Michigan 48121
1-800-392-3673
Emergency Telephone: Poison Control Center: 1-800-959-3673
CHEMTREC: U.S. and Canada: 1-800-424-9300
CHEMTREC: International: 1-703-527-3887

2. Composition/Information on Ingredients

This chemical product is a preparation.
This Chemical Product Contains No Other Ingredients Now Known To Be Hazardous as Defined by the Applicable Regulations.

Table with 3 columns: Ingredient Name, CAS Number, and Concentration. Includes HIGHLY REFINED MINERAL OIL (8042-47-5D, 60-100) and ZINC COMPOUND (7440-66-6Z, 0.5-1.5).

3. Hazards Identification

Health: Exposure to oil mist/fume/vapor may cause respiratory tract irritation. Inhalation of mist and vapors may irritate the nose, throat, and lungs. This product is not expected to cause eye irritation under normal conditions of use. Symptoms of slight eye irritation may result when direct contact occurs. Ingestion of this product may cause nausea, vomiting and diarrhea. No skin irritation can be expected from single short-term exposure to this product. Prolonged or repeated contact may produce some irritation.

4. First-Aid Measures

Inhalation: If gas/fume/vapor/dust/mist from the material is inhaled, remove the affected person immediately to fresh air. If irritation persists, get medical attention.
Skin Contact: Wash skin with soap and water. If irritation persists, get medical attention.
Eye Contact: In case of contact with eyes, rinse immediately with plenty of water for at least 15 minutes and seek medical attention.
Ingestion: If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting.
Notes to a Physician: This material, if aspirated into the lungs, may cause chemical pneumonitis; treat the affected person appropriately.



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5. Fire-Fighting Measures

Extinguishing Media: Dry chemical, foam, carbon dioxide, water fog.

Specific Methods: Use water to cool fire-exposed containers, structures, and to protect personnel.
A fine spray or fog of water will reduce the intensity of flames. Do not use a solid stream of water, as this could spread the fire. Firemen should wear a self-contained breathing apparatus.

Specific Hazards: Combustion may produce the following products: Oxides of carbon, nitrogen, and phosphorus.
Decomposition of this product may yield hydrogen sulfide and sulfur dioxide.
Empty container(s) may 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.
Water or foam may cause frothing if the product is heated above 93 degrees C (200 degrees F).

Protection of Firefighters: Fire fighters should be equipped with NIOSH-approved, self-contained breathing apparatus (SCBA) and full protective clothing.

6. Accidental Release Measures

Personal Precautions: Eliminate all sources of ignition or flammables that may come into contact with a spill of this material.
Surfaces may become slippery after spillage.
Wear appropriate protective equipment and clothing during clean-up.

Environmental Precautions: Do not allow the spilled product to enter public drainage system or open water courses.
WATER SPILL: Remove from surface by skimming or with suitable absorbents. If allowed by local authorities and environmental agencies, sinking and/or suitable dispersants may be used in confined waters.

Methods for Cleaning Up: Dike the spilled material, where this is possible.
Absorb the spilled material with an inert absorbent (nonflammable) material.
In case of large spills, follow all facility Emergency Response Procedures.

7. Handling and Storage

Handling:

Technical Measures: Avoid the generation of oil mists.



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Precautions and Advice for Safe Handling: Elevated temperature or mechanical action may form vapors, mist, or fumes which may be irritating to the eyes, nose, throat, and lungs. Avoid breathing vapors or mist. Keep the container closed when not in use.

Storage: Technical Measures: Do not reuse the empty container.

Storage Conditions: Do not expose to heat or store at temperatures above 120F. Keep the container tightly closed and in a cool, well-ventilated place. Store this product away from strong oxidizing agents.

8. Exposure Controls/Personal Protection

Engineering Measures: Use adequate ventilation to control airborne concentrations below the exposure limits/guidelines. If user operations generate a vapor, dust, and/or mist, use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels below the recommended exposure limits/guidelines. Local exhaust is suggested for use, where possible, in enclosed or confined spaces. Eyewash and emergency showers are recommended.

Control Parameters: If oil mist is generated, observe the OSHA exposure limit of 5 mg/m3 (TWA) and the ACGIH exposure limit of 5 mg/m3 (TWA) and the ACGIH short term exposure limit (STEL) of 10 mg/m3. Ford Motor Company recommends an exposure limit of 1.0 mg/m3.

Personal Protective Equipment:

Respiratory Protection: If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, an approved respirator must be worn. Respirator selection, use and maintenance should be in accordance with the requirements of OSHA Respiratory Protection Standard 29 CFR 1910.134 and/or Canadian Standard CSA Z94.4.

Hand Protection: The use of nitrile-latex gloves is recommended.

Eye Protection: Wear safety glasses with side shields.

Hygiene Measures: Use good personal hygiene. Remove contaminated clothing and wash the skin thoroughly with soap and water after work. Wash contaminated clothing before reuse.



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9. Physical and Chemical Properties

Specific Gravity: 0.87-0.89
Physical State: LIQUID
Form: OIL
Odor: PETROLEUM
Color: CLEAR AMBER
pH: N.AP
Temperature Range During which Changes in Physical State Occur:
 Boiling Point: ND
Flash Point: 200 °C ASTM D93
Auto-ignition Temperature: ND
Explosion Properties:
 UEL: ND
 LEL: ND
Vapor Density: >1 (AIR=1)
Solubility: NEGLIGIBLE IN WATER
Viscosity: 75-125@40°C cSt ASTM D445
Evaporation Rate: <1 (BuAc = 1)

10. Stability and Reactivity

Stability: This is a stable material.
 Hazardous polymerization will not occur.

Conditions and Materials to Avoid: This product may react with strong oxidizing agents (bleach--sodium hypochlorite, calcium hypochlorite, hydrogen peroxide, permanganate, nitric acid, concentrated OXYGEN, perchlorates).
 This product may react with strong reducing agents.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, and other low molecular weight hydrocarbons.
 Decomposition of this product may yield oxides of nitrogen upon decomposition.
 Decomposition of this product may emit oxides of sulfur.
 Decomposition of this product may yield oxides of phosphorus.
 Decomposition of this product may yield metallic oxides.
 Decomposition of this product may emit hydrogen sulfide.
 Irritating and/or toxic gases may be emitted upon the product's decomposition.



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11. Toxicological Information

Skin Contact: Prolonged or repeated contact with this product may dry and/or defat the skin.
Prolonged and/or repeated skin contact with this product may cause irritation/dermatitis.

Chronic (Long Term) Toxicity: Base oil severely refined: Not carcinogenic in animal studies.
Representative material passes IP-346, Modified Ames test, and/or other screening tests.
Continuous long term contact with used motor oil has caused skin cancer in animal tests.

12. Ecological Information

No specific aquatic data available for this product.

13. Disposal Considerations

Waste from Residues: Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulation.

Contaminated Packaging: No consideration given when disposed of according to local, state, and Federal regulations.



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14. Transport Information

U.S. Department of Transportation (DOT) 49 - CFR 172.101

This product is not regulated as a dangerous good.

Canadian Transportation of Dangerous Goods (T.D.G.) - TDGR Schedule II

This product is not regulated as a dangerous good.

Secretary of Communication and Transportation (SCT) - NOM-002-SCT2/1994 (Mexico)

This product is not regulated as a dangerous good.

International and Domestic Air Transportation - ICAO & IATA Section 4.2

This product is not regulated as a dangerous good.

International Water Transportation - IMDG Code Amendment 31-02

This product is not regulated as a dangerous good.

15. Regulatory Information

Used engine oils, while not a component of this material, is on the Proposition 65 list of chemicals known to the State of California to cause cancer.

Material contains a chemical which is a Ford Motor Company Material of Concern. Use and release of this material should be minimized to the greatest extent possible.

Don't pollute. Conserve resources. Return used oil to collection centers.

16. Other Information

Petroleum distillate base oils used in the product are severely hydrotreated and/or solvent refined.

Key/Legend: N.AP = Not applicable; N.AV = Not available; ND = Not determined or No data; TLV = Threshold limit value; TWA = Time-weighted average; STEL = Short-term exposure limit; C = Ceiling limit

Preparation Information:

The chemical identification and properties for this material were provided by the manufacturer. For Canadian locations, a manufacturer's MSDS is available upon request. Health and safety information has been evaluated by the Occupational and Environmental Health Sciences Department, Ford Motor Company, National Parts General Office, MD74, 29500 Plymouth Road, Livonia, MI 48150, USA.

Disclaimer:

The information on this data sheet represents our current data and is accurate to the best of our knowledge as to the proper handling of this product under normal conditions and in accordance with the application specified on the packaging and/or technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.



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Attachment

Product Code	Container Size	Part of Kit	Kit Product Code
XO-10W30-BSD	Bulk		
XO-10W30-DSD	55 U.S. gal.		
XO-10W30-DSDR	55 U.S. gal.		
XO-10W30-QSD	1 qt.		
XO-10W30-TSD	261 U.S. gal.		
XO-10W30-5QSD	5 qt.		
XO-15W40-BSD	Bulk		
XO-15W40-DSD	55 U.S. gal.		
XO-15W40-DSDR	55 U.S. gal.		
XO-15W40-DSD1	55 U.S. gal.		
XO-15W40-QSD	1 qt.		
XO-15W40-QSD1	1 qt.		
XO-15W40-RSD	Railcar		
XO-15W40-TSD	261 U.S. gal.		
XO-15W40-5QSD	5 qt.		