



Material Safety Data Sheet

FIR No.: 180934
Version Number: US-US-6

Level: 1
Release Date: 2010-11-24

1. Product and Company Identification

Product Name: SAE 5W-40 Full Synthetic 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.

| Chemical Name | CAS Number | Percent Concentration | Hazard Classification |
|---|------------|-----------------------|--|
| PETROLEUM DISTILLATES HYDROTREATED HEAVY PARAFFINIC | 64742-54-7 | 30-60 | DSL LISTED HAZCOM RSMS_D_ALL RSMS_P_SOM |
| PETROLEUM DISTILLATES, SOLVENT DEWAXED HEAVY PARAFFINIC | 64742-65-0 | 5-10 | DSL LISTED HAZCOM RSMS_D_ALL RSMS_P_SOM |

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. May cause irritation to the eyes, characterized by a burning sensation, redness, and excessive watering. No skin irritation can be expected from single short-term exposure to this product. Prolonged or repeated contact may produce some irritation. Ingestion of this product may cause nausea, vomiting and diarrhea.

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.



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Skin Contact: Wash skin with soap and water.
If irritation persists, get medical attention.
If this material is injected beneath the skin, regardless of amount injected, get immediate medical attention. Do not wait for symptoms to develop.

Eye Contact: In case of contact with eyes, rinse immediately with plenty of water for at least 15 minutes and seek medical attention.
If irritation persists, get 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.
HIGH PRESSURE SKIN INJECTION: Physician must be familiar with local procedures for treatment of this type of wound; incision, irrigation, removal of all necrotic tissue and open wound dressing.

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: Water or foam may cause frothing if the product is heated above 93 degrees C (200 degrees F).
Combustion may produce the following products: Oxides of carbon, nitrogen, and phosphorus.
When heated to very high temperatures, the material may give off smoke and decomposition products which may contain toxic compounds such as sulfur and/or nitrogen oxides.
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.

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.



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Environmental Precautions: Do not allow the spilled product to enter public drainage system or open water courses.
Do not allow this material to drain into sewers/water supplies.
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: Stop the flow of material, if this is without risk.
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.

Precautions and Advice for Safe Handling: Avoid breathing vapor or mist.
Avoid eye contact.
Avoid prolonged or repeated skin contact with this material.
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.
The skin cancer potential for the reclaimed oil has not been identified.
Keep exposure to this oil as low as reasonably possible.

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

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



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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.
The use of neoprene gloves is recommended.

Eye Protection:

Wear safety glasses with side shields.
Wear chemical goggles; face shield (if splashing is possible).

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: 0.853 @15.6°C
Physical State: LIQUID
Form: OIL
Odor: PETROLEUM
Color: AMBER
pH: N.AP
Temperature Range During which Changes in Physical State Occur:
Flash Point: 220 °C ASTM D93
Explosion Properties:
 UEL: ND
 LEL: ND
Vapor Pressure: <1@20°C mmHg
Vapor Density: >1 (AIR=1)
Solubility: NEGLIGIBLE IN WATER
Viscosity: 96@40°C cSt ASTM D445
Evaporation Rate: ND

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.
 Irritating and/or toxic gases may be emitted upon the product's decomposition.



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11. Toxicological Information

Inhalation: Exposure to oil mist/fume/vapor may cause respiratory tract irritation.

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.
Used oil: CAUTION - If contaminated by unburned fuel, this used crankcase oil may have a lower flashpoint than the value which is indicated above.

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

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

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.

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

HMIS and NFPA Hazard Class Information:

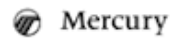
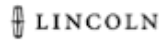
HMIS Hazard Class: Health: 1 (Slight) Flammability: 1 (Slight) Physical Hazard: 0 (Least)

NFPA Hazard Class: Health: 0 (Least) Flammability: 1 (Slight) Instability: 0 (Least)

**The following sections contain revisions OR
NEW statements.** 2
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Preparation Information:

The chemical identification and properties for this material were provided by the manufacturer. For Canadian locations, a manufacture's MSDS is available upon request. Health and safety information has been evaluated by the Occupational and Environmental Health Sciences Department, Ford Motor Company, Diagnostic Service Center II, 1800 Fairlane Drive, Allen Park, MI 48101, USA.



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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-5W40-DSD | 55 U.S. gal. | | |
| XO-5W40-5QSD | 5 qt. (4.7 L) | | |