



Material Safety Data Sheet

FIR No. 173219
Version Number: US-US-5

Level: 3
Release Date: 2005-04-11

1. Product and Company Identification

Product Name: SAE (5W-20 and 5W-30 Premium Synthetic Blend, 10W-30 Super Premium, and 10W-40 Premium) Motor Oil

Product Code: See Attachment

Application: 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.

Chemical Name	CAS Number	Percent Concentration	Hazard Classification
PETROLEUM DISTILLATES HYDROTREATED HEAVY PARAFFINIC	64742-54-7	75-85	HAZCOM RSMSPROH
PETROLEUM DISTILLATES, HYDROTREATED MIDDLE	64742-46-7	5-20	HAZCOM RSMREST
4-METHYL-2-PENTANOL ZINC HYDROGEN PHOSPHORODITHIOATE	2215-35-2	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. Ingestion may cause slight stomach irritation and discomfort. 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. No skin irritation can be expected from single short-term exposure to this product. Prolonged or repeated contact may produce some irritation.

Environment: Material contains a chemical which is a Hazardous Air Pollutant (HAP), regulated by the United States Clean Air Act.

4. First-Aid Measures

Inhalation: If inhalation of gas/fume/vapor/dust/mist from the material is excessive (air concentration is greater than the TLV or health effects are noticed), immediately remove the affected person(s) 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.

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: If the affected person is not breathing, apply artificial respiration.

5. Fire-Fighting Measures

Extinguishing Media: Alcohol foam (preferred), dry chemical, water.

Specific Methods: Use water to cool fire-exposed containers, structures, and to protect personnel.

Specific Hazards: Flammable at all temperatures above the flash point on contact with an ignition source.
Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition.
Empty containers may retain product residue including Flammable or Explosive vapors. Do not cut, drill, grind, or weld near full, partially full, or empty product containers.

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.
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: Contain the discharged material.
Absorb the spilled material with an inert absorbent (nonflammable) material.



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7. Handling and Storage

Handling:

Technical Measures: Avoid the generation of oil mists.

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: No special precautions.

Storage Conditions: 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 mechanical ventilation (general and/or local exhaust) ventilation to maintain exposure below PEL(s) and/or TLV(s).

Control Parameters: If oil mist is generated, observe the OSHA exposure limit of 5 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: Use of impervious gloves is recommended, such as neoprene.

Eye Protection: Wear safety glasses with side shields.

Skin and Body Protection: Use of an impervious apron is recommended.

Hygiene Measures: 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: 0.85-0.88
Physical State: LIQUID
Odor: PETROLEUM
Color: AMBER
pH: N.AV
Temperature Range During which Changes in Physical State Occur:
Flash Point: 193 °C ASTM D93
Auto-ignition Temperature: N.AV
Explosion Properties:
 UEL: N.AV
 LEL: N.AV
Vapor Pressure: <1 @20°C mmHg
Vapor Density: >1 (AIR=1)
Solubility: INSOLUBLE IN WATER
Viscosity: 48-110 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 can react with oxidizing materials.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, and other low molecular weight hydrocarbons.
 Decomposition of this product may yield oxides of phosphorus.
 Decomposition of this product may yield oxides of sulfur and nitrogen.

11. Toxicological Information

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.



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13. Disposal Considerations

Waste from Residues:

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulation.
Waste Disposal - Material should be disposed of separately or with plant used motor oils, indicating the materials potential to cause skin cancer with prolonged and repeated contact.
Empty containers may contain hazardous residues (vapors, liquid, and/or solid). Do not reuse the empty container without commercial cleaning or reconditioning.

Contaminated Packaging:

No available information.



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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

This product contains a toxic chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

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

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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Product Code	Container Size	Attachment	
		Part of Kit	Kit Product Code
XO-10W30-5QSP	5 qt		
XO-10W30-BSP	Bulk		
XO-10W30-DSP	55 U.S. Gallon Drum		
XO-10W30-DSP1	55 U.S. Gallon Drum		
XO-10W30-QSP	1 qt		
XO-10W30-QSP1	1 qt		
XO-10W30-RSP	Railcar		
XO-10W40-DP	55 U.S. Gallon Drum		
XO-10W40-QP	1 qt		
XO-5W20-5QSP	5 qt		
XO-5W20-BSP	Bulk		
XO-5W20-DSP	55 U.S. Gallon Drum		
XO-5W20-DSP1	55 U.S. Gallon Drum		
XO-5W20-QSP	1 qt		
XO-5W20-QSP1	1 qt		
XO-5W20-RSP	Railcar		
XO-5W20-TSP	261 U.S. Gallon Tote		
XO-5W30-5QSP	5 qt		
XO-5W30-BSP	Bulk		
XO-5W30-DSP	55 U.S. Gallon Drum		
XO-5W30-DSP1	55 U.S. Gallon Drum		
XO-5W30-QSP	1 qt		
XO-5W30-QSP1	1 qt		
XO-5W30-RSP	Railcar		
XO-5W30-TSP	261 U.S. Gallon Tote		