



**Material Safety Data Sheet**

**Product Name:** SAE (5W-20 and 5W-30) Full Synthetic Motor Oil  
**FIR No.** 173414  
**Version Number:** US-US-1

**Level:** 1  
**Release Date:** 2005-02-18

**1. Product and Company Identification**

**Product Name:** SAE (5W-20 and 5W-30) Full Synthetic 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	>60	HAZCOM RSMSPROH
PETROLEUM DISTILLATES, HYDROTREATED MIDDLE	64742-46-7	>10-30	HAZCOM RSMREST
DIPHENYLAMINE	122-39-4	.1-<1	RSMREST WHMIS 0.1

**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.

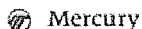
**Protection of Firefighters:** Fire fighters should be equipped with NIOSH-approved, self-contained breathing apparatus (SCBA) and full protective clothing.

**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.

Exposure Limits:

Chemical Name TWA 8 hr
DIPHENYLAMINE 10(mg/m3)

References
ACGIH
OSHA

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.



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

**9. Physical and Chemical Properties**

**Specific Gravity:** 0.85-0.86  
**Physical State:** LIQUID  
**Odor:** PETROLEUM  
**Color:** AMBER  
**pH:** N.AV  
**Temperature Range During which Changes in Physical State Occur:**  
**Flash Point:** 185 °C PMCC

**Explosion Properties:**

**UEL:** N.AV  
**LEL:** N.AV  
**Vapor Pressure:** <1@20°C mmHg  
**Vapor Density:** >1 (AIR=1)  
**Solubility:** NEGLIGIBLE IN WATER  
**Viscosity:** 43-63@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 can react with oxidizing materials.

**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, and other low molecular weight hydrocarbons.

**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.



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**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.  
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 NONE of the substances 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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**Attachment**

<b>Product Code</b>	<b>Container Size</b>	<b>Part of Kit</b>	<b>Kit Product Code</b>
XO-5W20-DFS	55 U.S. Gallon Drum		
XO-5W20-QFS	1 qt		
XO-5W30-DFS	55 U.S. Gallon Drum		
XO-5W30-QFS	1 qt		