



Material Safety Data Sheet

FIR No.: 192213
Version Number: US-US-1

Level: 1
Release Date: 2014-02-04

1. Product and Company Identification

Product Name: SAE 5W-50 Full Synthetic Motor Oil
Product Code: See Attachment
Application: Gasoline 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	60-100	DSL LISTED HAZCOM RSMS_D_ALL RSMS_P_SOM
PETROLEUM DISTILLATES, SOLVENT DEWAXED HEAVY PARAFFINIC		1-5	DSL LISTED HAZCOM RSMS_P_SOM RSMS_D_ALL
PHOSPHORODITHIOIC ACID, O,O- DI-C1-14-ALKYL ESTERS, ZINC SALTS		0.5-1.5	RSMS_METALS LOCAL REV 1 DSL LISTED RQ

3. Hazards Identification

Health: Inhalation of mist and vapors may irritate the nose, throat, and lungs. May cause eye irritation.
 No skin irritation can be expected from single short-term exposure to this product. Prolonged or repeated contact may produce some irritation.
 Prolonged and/or repeated skin contact with this product may cause irritation/dermatitis.
 Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.



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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: Immediately take off all contaminated clothing. 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: This material, if aspirated into the lungs, may cause chemical pneumonitis; treat the affected person appropriately.

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.

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. Decomposition of this product may yield hydrogen sulfide and sulfur dioxide. Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. 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: Avoid inhalation of vapors and contact with skin and eyes. Wear appropriate protective equipment and clothing during clean-up. Eliminate all sources of ignition or flammables that may come into contact with a spill of this material. Surfaces may become slippery after spillage.



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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: Dike the spilled material, where this is possible.
Stop the flow of material, if this is without risk.
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.
Keep this product from heat, sparks, or open flame.

Precautions and Advice for Safe Handling: Avoid contact with skin, eyes and clothing.
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.
Use with adequate ventilation.
Keep the container closed when not in use.

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

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 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.



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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 gloves is recommended.

Eye Protection: Wear safety glasses with side shields.

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: 0.86-0.87 H₂O=1 @15.6°C

Physical State: LIQUID

Form: OIL

Odor: PETROLEUM

Color: AMBER

pH: N.A.P

Temperature Range During which Changes in Physical State Occur:

Boiling Point: ND

Freezing Point: ND

Melting Point: N.A.P

Flash Point: 185 minimum °C ASTM D93

Auto-ignition Temperature: ND

Explosion Properties:

UEL: ND

LEL: ND

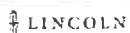
Vapor Pressure: <1@20°C mmHg

Vapor Density: >1 (AIR=1)

Solubility: NEGLIGIBLE

Viscosity: 136 cSt @40°C

Evaporation Rate: <1 (BuAc = 1)



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10. Stability and Reactivity

Stability: Stable at ambient and moderately elevated temperatures and pressures.
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: Decomposition of this product may emit oxides of nitrogen and carbon monoxide.
Decomposition of this product may yield oxides of phosphorus.
Decomposition of this product may emit oxides of sulfur.
Irritating and/or toxic gases may be emitted upon the product's decomposition.

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.

Chronic (Long Term) Toxicity: Animal testing data indicate that the reproductive effect (Testicular Atropy) from exposure to ZINC DIALKYL DITHIOPHOSPHATE is a non-specific chemical effect and is caused by stressing the animals due to severe skin irritation and weight loss.
In some laboratory animal studies ZINC DIALKYL DITHIOPHOSPHATE compounds are suspect of mutagenic effects.
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.
Empty containers may contain hazardous residues (vapors, liquid, and/or solid). Do not reuse the empty container without commercial cleaning or reconditioning.
Take used motor oils to a used oil collection center.

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

The components of this product are listed on the TSCA Inventory

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

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)

Preparation Information:

The chemical identification and properties for this material were provided by the manufacturer. 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-5W50-QGT	1 qt		