

1. IDENTIFICATION

PRODUCT IDENTIFIER:**OTHER MEANS OF IDENTIFICATION**

FIR NO.

RECOMMENDED USE:**RECOMMENDED RESTRICTIONS****MANUFACTURER/IMPORTER/SUPPLIER/****DISTRIBUTOR INFORMATION**

COMPANY NAME

ADDRESS

TELEPHONE

SDS INFORMATION

EMERGENCY TELEPHONE NUMBER**MOTORCRAFT SAE 0W-20 AND 5W-30 FULL SYNTHETIC MOTOR OIL**

200010

Gasoline engine service fill motor oil

None known.

Ford Motor Company

Attention: SDS Information, P.O. Box 1899**Dearborn, Michigan 48121****USA**

1-800-392-3673

1-800-448-2063 (USA and Canada)

fordsds.com

Reprint Control Center, USA and Canada: 1-800-950-3672

2. HAZARD(S) IDENTIFICATION

Physical hazards:

Not classified.

Health hazards:

Not classified.

Environmental hazards:

Not classified.

OSHA defined hazards:

Not classified.

Label elements**Hazard symbol:**

None.

Signal Word:

None.

Hazard statement:

The mixture does not meet the criteria for classification.

Precautionary statement**Prevention:**

Observe good industrial hygiene practices.

Response:

Wash hands after handling.

Storage:

Store away from incompatible materials.

Disposal:

Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise**classified (HNOC):**

Direct contact with eyes may cause temporary irritation. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. Inhalation of vapors/fumes generated by heating this product may cause respiratory irritation with throat discomfort, coughing or difficulty breathing.

Supplemental information:

None.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Mixtures

The components are not hazardous or are below required disclosure limits.

4. FIRST-AID MEASURES

INHALATION

Move to fresh air. Call a physician if symptoms develop or persist.

SKIN CONTACT

Wash off with soap and water. Get medical attention if irritation develops and persists.

EYE CONTACT

Rinse with water. Get medical attention if irritation develops and persists.

INGESTION

Rinse mouth. Get medical attention if symptoms occur.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED

Direct contact with eyes may cause temporary irritation.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Treat symptomatically.

GENERAL INFORMATION

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂).
UNSUITABLE EXTINGUISHING MEDIA	Do not use water jet as an extinguisher, as this will spread the fire.
SPECIFIC HAZARDS ARISING FROM THE CHEMICAL	During fire, gases hazardous to health may be formed. Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
FIRE FIGHTING EQUIPMENT/INSTRUCTIONS	Move containers from fire area if you can do so without risk.
SPECIFIC METHODS	Use standard firefighting procedures and consider the hazards of other involved materials.
GENERAL FIRE HAZARDS	No unusual fire or explosion hazards noted.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES	Avoid contact with eyes, skin, and clothing. Avoid breathing mist or vapor. Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.
METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP	The product is immiscible with water and will spread on the water surface. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
ENVIRONMENTAL PRECAUTIONS	Avoid discharge into drains, water courses or onto the ground.

7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING	Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Observe good industrial hygiene practices. For personal protection, see Section 8 of the SDS.
CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES	Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS	Not applicable.
BIOLOGICAL LIMIT VALUES	No biological exposure limits noted for the ingredient(s).
APPROPRIATE ENGINEERING CONTROLS	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, appropriate local exhaust ventilation, or other engineering controls to control airborne levels below the recommended exposure limits/guidelines.
<u>INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT</u>	
EYE / FACE PROTECTION	Wear safety glasses with side shields (or goggles).
SKIN PROTECTION HAND PROTECTION	Suitable chemical protective gloves should be worn when the potential exists for skin exposure. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Nitrile gloves are recommended.
OTHER	Wear appropriate chemical resistant clothing if applicable.

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.

THERMAL HAZARDS

Wear appropriate thermal protective clothing, when necessary.

GENERAL HYGIENE CONSIDERATIONS

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

◦	Physical state	Liquid.
◦	Form	Liquid.
◦	Color	Amber.
◦	Odor	Hydrocarbon-like.
◦	Odor threshold	Not available.
◦	pH	Not available.
◦	Melting Point/ freezing point	Not available.
◦	Initial boiling point and boiling range	Not available.
◦	Flash point	>365.0 °F (>185.0 °C) Pensky-Martens Closed Cup
◦	Evaporation rate	Not available.
◦	Flammability (solid, gas)	Not applicable.

Upper/lower flammability or explosive limits

◦	Flammability limit – lower (%)	Not available.
◦	Flammability limit – upper (%)	Not available.
◦	Explosive limit – lower (%)	Not available.
◦	Explosive limit – upper (%)	Not available.
◦	Vapor pressure	< 1 mm Hg
◦	Vapor density	>1 (AIR=1)
◦	Relative density	0.8 – 0.9
◦	Relative density temperature	60°F (15.56 °C)
◦	Solubility (water)	Negligible
◦	Partition coefficient (n-octanol/water)	Not available.
◦	Auto- ignition temperature	Not available.
◦	Decomposition temperature	Not available.
◦	Viscosity	40 - 75 cSt
◦	Viscosity temperature	104 °F (40°C)

Other information

◦	Bulk density	7 – 7.5 lb/gal
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10. STABILITY AND REACTIVITY**REACTIVITY**

The product is stable and non-reactive under normal conditions of use, storage and transport.

CHEMICAL STABILITY

Material is stable under normal conditions.

POSSIBILITY OF HAZARDOUS REACTIONS

No dangerous reaction known under conditions of normal use.

CONDITIONS TO AVOID

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with incompatible materials.

INCOMPATIBLE MATERIALS

Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS

Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

INHALATION

Prolonged inhalation may be harmful. Inhalation of vapors/fumes generated by heating this product may cause respiratory irritation with throat discomfort, coughing or difficulty breathing.

SKIN CONTACT

Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

EYE CONTACT

Direct contact with eyes may cause temporary irritation.

INGESTION

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**SYMPTOMS RELATED TO THE
PHYSICAL, CHEMICAL AND
TOXICOLOGICAL
CHARACTERISTICS**

Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

ACUTE TOXICITY

Not expected to be hazardous by OSHA criteria.

SKIN CORROSION / IRRITATION

Prolonged skin contact may cause temporary irritation.

**SERIOUS EYE DAMAGE/ EYE
IRRITATION**

Direct contact with eyes may cause temporary irritation.

**Respiratory or skin sensitization
RESPIRATORY SENSITIZATION**

Not a respiratory sensitizer.

SKIN SENSITIZATION

This product is not expected to cause skin sensitization.

GERM CELL MUTAGENICITY

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

CARCINOGENICITY

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.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

REPRODUCTIVE TOXICITY

This product is not expected to cause reproductive or developmental effects.

**SPECIFIC TARGET ORGAN
TOXICITY – SINGLE EXPOSURE**

Not classified.

**SPECIFIC TARGET ORGAN
TOXICITY – REPEATED EXPOSURE**

Not classified.

ASPIRATION HAZARD

Not an aspiration hazard.

CHRONIC EFFECTS

Prolonged inhalation may be harmful.

12. ECOLOGICAL INFORMATION

ECOTOXICITY

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**PERSISTENCE AND
DEGRADABILITY**

No data is available on the degradability of any ingredients in the mixture.

BIOACCUMULATIVE POTENTIAL

No data available.

MOBILITY IN SOIL

No data available.

OTHER ADVERSE EFFECTS

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. DISPOSAL CONSIDERATIONS

DISPOSAL INSTRUCTIONS

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Don't pollute. Conserve resources. Return used oil to collection centers.

LOCAL DISPOSAL REGULATIONS

Dispose in accordance with all applicable regulations.

HAZARDOUS WASTE CODE

The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**WASTE FROM RESIDUES /
UNUSED PRODUCTS**

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

CONTAMINATED PACKAGING

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not established.

15. REGULATORY INFORMATION

US federal regulations:

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Toxic Substances Control Act (TSCA)

One or more components of the mixture are not on the TSCA 8(b) inventory or are designated "inactive".

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (CAS 68649-42-3) Listed.

SARA 304 Emergency release notification

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical

No

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	68649-42-3	0.8 - < 2

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA)

Not regulated.

US state regulations

California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

International Inventories:

All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST VERSION

Issue Date: 06-27-2019

Version: 01

HMIS® ratings:

Health: 0 Flammability: 1 Physical Hazard: 0

NFPA ratings:

Health: 0 Flammability: 1 Instability: 0

Preparation Information and Disclaimer:

This document was prepared by FCSD-Toxicology, Ford Motor Company, Fairlane Business Park IV, 17225 Federal Drive, Allen Park, MI 48101, USA, based in part on information provided by the manufacturer. 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. To the extent that there are any differences between this product's Safety Data Sheet (SDS) and the consumer packaged product labels, the SDS should be followed.

Part number(s):

XO-0W20-QFS, XO-5W30-BFS, XO-5W30-DFS, XO-5W30-DFSR, XO-5W30-Q1FS, XO-5W30-QFS1.