

# Hoja de Datos de Seguridad

Issue Date: 14/07/2017 Version: 01

#### 1. IDENTIFICATION

PRODUCT IDENTIFIER: MOTORCRAFT SAE 5W-40 FULL SYNTHETIC DIESEL MOTOR OIL

OTHER MEANS OF IDENTIFICATION

FIR NO. 198811

RECOMMENDED USE: Diesel engine service fill motor oil

RECOMMENDED RESTRICTIONS None known.

MANUFACTER/IMPORTER/SUPPLIER/

**DISTRIBUTOR INFORMATION** 

**COMPANY NAME** Ford Motor Company

ADRESS Attention: MSDS Information, P.O. Box 1899

Dearborn, Michigan 48121

USA

**TELEPHONE** 1-800-392-3673

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

fordsds.com

**EMERGENCY TELEPHONE NUMBER** Poison Control Center: USA and Canada: 1-800-959-3673

INFOTRAC (Transportation): USA and Canada 1-800-535-5053

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

classified (HNOC): Direct contact with eyes may cause temporary irritation. 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

Chemical name	Common name and synonyms	CAS number	%
Zinc compound		Trade Secret	1.1

Specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

#### 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 (CO2).

**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.

Use standard firefighting procedures and consider the hazards of other involved materials. SPECIFIC METHODS

No unusual fire or explosion hazards noted. **GENERAL FIRE HAZARDS** 

### 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, **PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES**  Avoid contact with eyes, skin, and clothing. Avoid inhalation of vapors or mists. 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. Prevent entry into waterways, sewer,

basements or confined areas.

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

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 original 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).

**APPROPIATE 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.

#### INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT

**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 suitable protective clothing. 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

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

Appe	earance	
•	Physical state	Liquid.
•	Form	Liquid.
•	Color	Amber.
•	Odor	Aliphatic.
•	Odor threshold	Not available.
•	рН	Not available.
0	Melting Point/ freezing point	Not available.
•	Initial boiling point and	Not available.
	boiling range	
0	Flash point	410.0 °F (210.0 °C) Pensky-Martens Closed Cup
•	Evaporation rate	Not available.
0	Flammability (solid, gas)	Not applicable.
<u>U</u>	pper/lower flammability or explosive limits	
•	Flammability limit – lower (%)	Not available.
0	Flammability limit – upper (%)	Not available.
•	Explosive limit – lower (%)	Not available.
0	Explosive limit – upper (%)	Not available.
	Vapor pressure	< 1 kPa @ 20° C
	Vapor density	>1 (AIR=1)
0	Relative density	0.848
0	Relative density temperature	60 °F (15.56 °C)
0	Solubility (water)	Negligible
0	Partition coefficient	Not available.
	(n-octanol/water)	
0	Auto- ignition temperature	Not available.
0	<b>Decomposition temperature</b>	Not available.
0	Viscosity	89 cSt
0	Viscosity temperature	104 °F (40°C)
0	ther information	
•		7.06 lb/gal
0	B	-40 °F (-40 °C)
		,

### 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 polymerization does not occur.
HAZARDOUS REACTIONS

**CONDITIONS TO AVOID** Avoid temperatures exceeding the flash point. Contact with incompatible materials.

**INCOMPATIBLE MATERIALS** Strong oxidizing agents.

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

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 Expected to be a low ingestion hazard. 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** Direct contact with eyes may cause temporary irritation.

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** This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. 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.

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.

PERSISTANCE AND **DEGRADABILITY** 

No data is available on the degradability of this product.

**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 /** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This

UNUSED PRODUCTS 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

#### ποτ

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.

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

Not regulated.

#### **CERCLA Hazardous Substance List (40 CFR 302.4)**

Zinc compound (CAS Trade Secret)

Listed.

#### **SARA 304 Emergency release notification**

Not regulated.

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### **Hazard categories**

Immediate Hazard - No
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

#### SARA 302 Extremely hazardous substance

Not listed.

#### SARA 311/312 Hazardous chemical

No

### SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
Zinc compound	Trade Secret	1.10000000000

#### 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 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.

#### **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:** 07-14-2017

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-5W40-5Q3SD, XO-5W40-DSD, XO-5W40-QSD