



# MATERIAL SAFETY DATA SHEET

Ford Internal Reference Number(Tox No. : 157263)

Print Date : 10/05/00

Language: English

| Part Type and Number          | Part name                                          |
|-------------------------------|----------------------------------------------------|
| Motorcraft - U.S. XO-5W20-QSP | SAE 5W-20 SUPER PREMIUM MOTOR OIL (QUART)          |
| Motorcraft - U.S. XO-5W20-DSP | SAE 5W-20 SUPER PREMIUM MOTOR OIL (55 GALLON DRUM) |
| Motorcraft - U.S. XO-5W20-BSP | SAE 5W-20 SUPER PREMIUM MOTOR OIL (BULK)           |
| Motorcraft - U.S. XO-5W20-RSP | SAE 5W-20 SUPER PREMIUM MOTOR OIL (RAILCAR)        |

Approved to Active Production-Worldwide spec WSS-M2C914-A

===== CHEMICAL AND PHYSICAL PROPERTIES =====

|                                     |                                     |
|-------------------------------------|-------------------------------------|
| Appearance : Physical State         | LIQUID                              |
| Form                                | -                                   |
| Color                               | CLEAR BROWN                         |
| Specific Gravity (Relative Density) | 0.85 to 0.90                        |
| Boiling Point                       | Not Determined                      |
| Flash Point                         | +185 C (+365 F) (PENSKY CLOSED CUP) |
| pH full strength                    | -                                   |
| pH diluted                          | -                                   |
| Odor                                | PETROLEUM HYDROCARBN                |
| Odor Threshold                      | -                                   |
| Viscosity                           | -                                   |
| Vapor Density                       | >1 (AIR = 1)                        |
| Vapor Pressure                      | -                                   |
| Evaporation Rate                    | -                                   |
| Freezing Point                      | -                                   |
| Explosion Properties : UEL          | Not Determined                      |
| LEL                                 | Not Determined                      |
| Auto-ignition Temperature           | Not Determined                      |
| Solubility                          | INSOLUBLE in Water                  |
| Partition Coefficient               | -                                   |

===== HAZARDOUS AND OTHER DISCLOSED INGREDIENTS =====

| Percent Range | Exposure Limits - TWA ACGIH/OSHA (where est.) | CAS number | Chemical Name                                             |
|---------------|-----------------------------------------------|------------|-----------------------------------------------------------|
| 83.8          | 5/5<br>Ford= 1.0 mg/m3                        | 64742-54-7 | PETROLEUM DISTILLATES<br>HYDROTREATED HEAVY<br>PARAFFINIC |

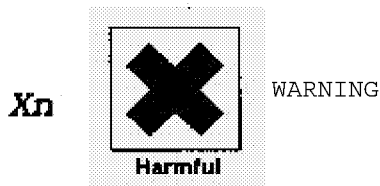
Exposure Limit Abbreviations

TWA=Time Weighted Average C=Ceiling  
S=Short Term Exposure Sk=Skin  
Sol=Soluble Compounds Fu=Fumes  
Insol=Insoluble Compounds Du=Dust I=IARC Resp=Respirable

===== REGULATORY INFORMATION =====

The manufacturer lists no ingredients as hazardous AS DEFINED BY OSHA 29 CFR 1910.1200 AND/OR CANADIAN WHMIS LEGISLATION.  
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.  
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.  
California Proposition 65:  
WARNING: This product contains a chemical known to the State of California to cause cancer.  
This product contains an ingredient(s) considered to be a hazardous substance by the State of Pennsylvania (Pennsylvania Worker and Community Right to Know Act).

===== SIGNAL WORD =====



===== HEALTH HAZARD INFORMATION =====

=(A)===== HAZARDS =====

This product is harmful if swallowed.  
This product may be harmful by inhalation.  
Exposure to oil mist/fume/vapor may cause respiratory tract irritation.  
Prolonged and/or repeated skin contact with this product may cause irritation/dermatitis.  
Continuous long term contact with used motor oil has caused skin cancer in animal tests.  
This product may cause irritation to the eyes and skin.

=(B)===== TARGET ORGANS AND MEDICAL CONDITIONS =====

Overexposure to some hazardous ingredients in this product has been found to affect certain body organs and systems in experimental animals and/or humans. These include:  
Skin, Eyes, and Respiratory System

=(C)===== ACUTE TOXICITY INFORMATION =====

Based on the composition of the product identified by the supplier, selected portions of the acute toxicity information from RTECS are as follows:

===== FIRE AND EXPLOSION INFORMATION =====

This product is combustible at high temperatures.  
EXTINGUISHER INFORMATION: Dry chemical, foam, carbon dioxide.  
Use water to cool fire-exposed containers, structures, and to protect personnel.  
A fine spray or fog of water will reduce the intensity of flames. Do not use

a solid stream of water, as this could spread the fire. Firemen should wear a self-contained breathing apparatus.  
Irritating and/or toxic fumes and gases may be emitted upon heating of this product.

===== **REACTIVITY DATA** =====

This is a stable material.  
This product may react with strong oxidizing agents.  
Hazardous polymerization will not occur.

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

===== **PREVENTIVE MEASURES** =====

**= (A) ===== SAFE HANDLING AND STORAGE =====**

Do not breathe gas/fumes/vapor/spray.  
Keep the container tightly closed and in a cool, well-ventilated place.  
Avoid getting this material into contact with your skin and eyes.  
Avoid prolonged or repeated skin contact with this material.  
Use this product with adequate ventilation.  
Keep this product from heat, sparks, or open flame.

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.

**= (B) ===== PROTECTIVE MEASURES =====**

Use general ventilation and use local exhaust, where possible, in confined or enclosed spaces.  
Use of protective coveralls and long sleeves is recommended.  
The use of neoprene gloves is recommended.  
Use an organic vapor respirator for concentrations exceeding the Occupational Exposure Limit.  
Wear safety glasses with side shields.

**= (C) ===== SPILLS, LEAKS AND DISPOSAL =====**

Wear appropriate protective equipment and clothing during clean-up.  
Do not allow this material to drain into sewers/water supplies.  
Thoroughly wash the area after a spill or leak clean-up.  
Waste disposal - This material should be disposed of separately or with plant used motor oils, indicating the material's potential to cause skin cancer with prolonged and repeated contact.  
Absorb the spilled material with an inert absorbent (nonflammable) material.  
Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulation.

===== **FIRST AID TREATMENT** =====

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting.  
If gas/fume/vapor/dust/mist from the material is inhaled, remove the affected person immediately to fresh air.  
For skin contact, wash immediately with soap and water.  
If irritation persists, get medical attention.

===== **NOTES TO PHYSICIANS** =====

This material, if aspirated into the lungs, may cause chemical pneumonitis;  
treat the affected person appropriately.

===== SPECIAL REMARKS =====

Petroleum distillate base oils used in the product are severely hydrotreated  
and/or solvent refined.

===== 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 has not been reviewed for this regulation.

**International and Domestic Air Transportation - ICAO & IATA Section 4.2**

This product has not been reviewed for this regulation.

**International Water Transportation - IMDG Code Amendment 29-98**

This product has not been reviewed for this regulation.

===== PREPARATION INFORMATION =====

Health and safety information has been evaluated by:

Occupational & Environmental Health Sciences Department  
Ford Motor Company  
Central Laboratory Building - Rm S-120  
15000 Century Drive  
Dearborn, Michigan 48120

For 24 hour emergency information dial 1-800-959-3673.

This is the last page of this MSDS.

Date of Preparation: 02/18/00