SAFETY DATA SHEET

1. Identification

Ford

Motorcraft.

| Indentineation | |
|--|--|
| Product identifier | MOTORCRAFT SUPER DUTY DIESEL MOTOR OIL, SAE15W-40, SAE 10W-30 |
| Other means of identification | |
| FIR No. | 198094 |
| Recommended use | Diesel engine service fill motor oil |
| Recommended restrictions | None known. |
| Manufacturer/Importer/Supplier/ | Distributor information |
| Company Name | Ford Motor Company |
| Address | 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 | |
| numbers | Deisen Central Center UCA and Ceneder 1,800,050,2672 |
| | 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 classified (HNOC) | Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. 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 | 0.8 - < 2 | |

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. | |
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| 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/instructionsMove containers from fire area if you can do so without risk.Specific methodsUse standard firefighting procedures and consider the hazards of other involved materials.General fire hazardsNo 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 inhalation of vapors or mists. Keep unnecessary personnel away. For personal protection, see section 8 of the SDS. |
|---|---|
| Methods and materials for | The product is immiscible with water and will spread on the water surface. |
| containment and cleaning up | 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. |
| Environmental precautions | Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground. |
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7. Handling and storage

| Precautions for safe handling | Avoid contact with eyes, skin, and clothing. Avoid breathing mist or vapor. Avoid prolonged exposure. Observe good industrial hygiene practices. For personal protection, see section 8 of the SDS. |
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| 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

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| 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. |
| Individual protection measures | s, 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. |
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| 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

Version: 01

Issue Date: 05-11-2017

| Appearance | |
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| Physical state | Liquid. |
| Form | Liquid. |
| Color | Amber. |
| Odor | Aliphatic. |
| Odor threshold | Not available. |
| рН | Not available. |
| Melting point/freezing point | Not available. |
| Initial boiling point and boiling range | Not available. |
| Flash point | 428.0 °F (220.0 °C) Pensky-Martens Closed Cup |
| Evaporation rate | Not available. |
| Flammability (solid, gas) | Not applicable. |
| Upper/lower flammability or exp | losive limits |
| Flammability limit - lower (%) | Not available. |
| Flammability limit - upper (%) | Not available. |
| Explosive limit - lower (%) | Not available. |
| Explosive limit - upper (%) | Not available. |
| Vapor pressure | < 0.1 kPa @ 20° C |
| Vapor density | > 1 (AIR=1) |
| Relative density | 0.9 @ 15.6° C |
| Solubility(ies) | |
| Solubility (water) | Negligible |
| Partition coefficient (n-octanol/water) | Not available. |
| Auto-ignition temperature | Not available. |
| Decomposition temperature | Not available. |
| Viscosity | 118 cSt |
| Viscosity temperature | 104 °F (40 °C) |
| Other information | |
| Pour point | -27.4 °F (-33 °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 reactions | No dangerous reaction known under conditions of normal use. |
| Conditions to avoid | 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. |
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11. Toxicological information

Information on likely routes of exposure

| Information on likely routes of ex | xposure |
|--|--|
| 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 | 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 effe | octs |
| 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 | This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Continuous long term contact with used motor oil has caused skin cancer in animal tests. Base oil severely refined: Not carcinogenic in animal studies. Representative material passes IP-346, Modified Ames test, and/or other screening 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. |
| Persistence 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 consideration | IS |
| 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. |
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14. Transport information

DOT

Not regulated as dangerous goods.

ΙΑΤΑ

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not established. Annex II of MARPOL 73/78 and the IBC Code

15. Regulatory information

| JS 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) |
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| Not regulated. |
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| Hazard categories Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Pressure Hazard - No Reactivity Hazard - No |
| SARA 302 Extremely hazardous substance |
| Not listed. |
| |
| SARA 311/312 Hazardous No chemical |
| chemical |
| |
| chemical SARA 313 (TRI reporting) |
| chemical SARA 313 (TRI reporting) Chemical name CAS number % by wt. |
| chemical SARA 313 (TRI reporting) Chemical name CAS number % by wt. Zinc compound Trade Secret 1.22000000000 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) |
| chemical SARA 313 (TRI reporting) Chemical name CAS number % by wt. Zinc compound Trade Secret 1.22000000000 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 Not regulated. |
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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 revision

| Issue date | 05-11-2017 |
|---------------|--|
| 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-10W30-5Q3SD, XO-10W30-6GSD, XO-10W30-BSD, XO-10W30-DSD, XO-10W30-DSDR, XO-10W30-QSDF, XO-10W30-QSDW, XO-10W30-TBSD, XO-15W40-5Q3SD, XO-15W40-6GSD, XO-15W40-BSD, XO-15W40-DSD, XO-15W40-DSD1, XO-15W40-DSDR, XO-15W40-QSDF, XO-15W40-QSDF1, XO-15W40-TBSD |