

Material Safety Data Sheet

FIR No.: 184629
Version Number: US-US-2

Level: 1
Release Date: 2011-10-05

1. Product and Company Identification

Product Name: MERCON® V Automatic Transmission and Power Steering Fluid
Product Code: See Attachment
Application: Fill for automatic transmissions and power steering systems requiring MERCON V® fluid
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.

Chemical Name	CAS Number	Percent Concentration	Hazard Classification
PETROLEUM DISTILLATES HYDROTREATED HEAVY PARAFFINIC	64742-54-7	30-60	RSMS_D_ALL HAZCOM DSL LISTED RSMS_P_SOM
PETROLEUM DISTILLATES, HYDROTREATED LIGHT PARAFFINIC	64742-55-8	10-30	RSMS_D_ALL HAZCOM DSL LISTED RSMS_P_SOM
PETROLEUM DISTILLATES, CATALYTIC, REFORMER FRACTIONATOR RES.	68477-31-6	1-5	DSL LISTED HAZCOM RSMS_D_ALL
PARAFFIN OILS - LUBRICATING OILS (PETROLEUM) C15-30 HYDROTREATED, NEUTRAL OIL BASED	72623-86-0	1-5	RSMS_D_ALL DSL LISTED HAZCOM MAN-ENV_REV RSMS_P_SOM

3. Hazards Identification

Health: This product may cause mild irritation to the eyes and skin. Exposure to oil mist/fume/vapor may cause respiratory tract irritation. Ingestion of this product may cause nausea, vomiting and diarrhea. Prolonged and/or repeated skin contact with this product may cause irritation/dermatitis. Prolonged or repeated contact with this product may dry and/or defat the skin.



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Environment: Material contains a chemical which is a Hazardous Air Pollutant (HAP), regulated by the United States Clean Air Act.

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: Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Combustion may produce the following products: Oxides of carbon, nitrogen, and phosphorus. Water or foam may cause frothing if the product is heated above 93 degrees C (200 degrees F). 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.



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6. Accidental Release Measures

Personal Precautions: Avoid inhalation of vapors and contact with skin and eyes.
Eliminate all sources of ignition or flammables that may come into contact with a spill of this material.
Provide adequate ventilation.
Surfaces may become slippery after spillage.
Wear appropriate protective equipment and clothing during clean-up.

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: Stop the flow of material, if this is without risk.
Dike the spilled material, where this is possible.
Absorb the spilled material with an inert absorbent (nonflammable) material.

7. Handling and Storage

Handling:

Technical Measures: Avoid the generation of oil mists.
Do not smoke or use open fire or other sources of ignition.
Keep this product from heat, sparks, or open flame.

Precautions and Advice for Safe Handling: Avoid breathing vapor, mist or gas.
Do not get this material in your eyes, on your skin, or on your clothing.
Keep the container closed when not in use.
Use with adequate ventilation.
Wear protective equipment during handling.

Storage: Technical Measures: Eliminate all sources of ignition.

Storage Conditions: Do not store this material in open or unlabeled containers.
Store this product away from strong oxidizing agents.
Store this product in a cool, dry, well-ventilated place.

8. Exposure Controls/Personal Protection

Engineering Measures: Use general ventilation.

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-latex gloves is recommended.

Eye Protection: Wear safety glasses with side shields.
 Wear chemical goggles; face shield (if splashing is possible).

Skin and Body Protection: Wear protective clothing sufficient to cover exposed skin surfaces.

Hygiene Measures: Use good personal hygiene.
 Wash thoroughly after handling.

9. Physical and Chemical Properties

Specific Gravity: 0.85-0.86 H₂O=1 @15.6°C

Physical State: LIQUID

Form: MIXTURE

Odor: PETROLEUM

Color: RED

pH: N.AP

Temperature Range During which Changes in Physical State Occur:

Flash Point: 157 minimum °C ASTM D93

Explosion Properties:

UEL: ND

LEL: ND

Vapor Pressure: <1@20°C mmHg

Vapor Density: >1 (AIR=1)

Solubility: NEGLIGIBLE IN WATER

Viscosity: 33@40°C cSt

Evaporation Rate: <1 (BuAc = 1)



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10. Stability and Reactivity

Stability: This is a stable material.
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: Carbon monoxide, carbon dioxide, and other low molecular weight hydrocarbons.
Decomposition of this product may emit oxides of sulfur.
Decomposition of this product may yield oxides of nitrogen upon decomposition.
Decomposition of this product may yield oxides of phosphorus.

11. Toxicological Information

Inhalation: Exposure to oil mist/fume/vapor may cause respiratory tract irritation.

Skin Contact: Prolonged and/or repeated skin contact with this product may cause irritation/dermatitis.
The skin sensitization potential of this product has not been fully assessed, assume that contact with the skin may cause allergic contact dermatitis. Risks are higher where prolonged or repeated skin contact with a fluid may occur.

Chronic (Long Term) Toxicity: Base oil severely refined: Not carcinogenic in animal studies.
Representative material passes IP-346, Modified Ames test, and/or other screening 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.

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

Don't pollute. Conserve resources. Return used oil to collection centers.
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)

The following sections contain revisions OR 2
NEW statements. 15

Preparation Information:

The chemical identification and properties for this material were provided by the manufacturer. For Canadian locations, a manufacture's MSDS is available upon request. 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
XL-14	12 fl. oz. (355 mL)		
XT-5-BM	Bulk		
XT-5-DM	55 U.S. gal.		
XT-5-DMC	55 U.S. gal.		
XT-5-DMCR	55 U.S. gal.		
XT-5-GM	1 U.S. gal.		
XT-5-QM	1 qt.		
XT-5-QMC	1 qt.		
XT-5-QM1	1 qt.		
XT-5-RM	Railcar		
XT-5-TM	261 U.S. gal.		
XT-5-5QM	5 qt.		