



**Material Safety Data Sheet**

**FIR No.:** 148095  
**Version Number:** US-US-2

**Level:** 1  
**Release Date:** 2005-12-14

**1. Product and Company Identification**

**Product Name:** FORD TYPE F Automatic Transmission Fluid and Power Steering Fluid  
**Product Code:** See Attachment  
**Application:** Fill for automatic transmissions and power steering systems that require Type F 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	60-100	HAZCOM RSMS_P_SOM
PROPRIETARY ADDITIVES	160611-23-4A	1-5	

**3. Hazards Identification**

CAUTION

**Health:** This product may cause irritation to the eyes, respiratory system, and skin.  
 This product may cause an allergic skin reaction.  
 Exposure to oil mist/fume/vapor may cause respiratory tract irritation.  
 Ingestion of this product may cause nausea, vomiting and diarrhea.

**Physical and Chemical Hazards:** Combustible liquid.

**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:** For skin contact, wash immediately with soap and water.  
 If irritation persists, get medical attention.



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**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. If the affected person is not breathing, apply artificial respiration. If the affected person's breathing is difficult, give oxygen. HIGH PRESSURE SKIN INJECTION: Physician must be familiar with local procedures for treatment of this type of wound; incision, irrigation, removal of all necrotic tissue and open wound dressing.

**5. Fire-Fighting Measures**

**Extinguishing Media:** Dry chemical, foam, carbon dioxide, water fog.

**Specific Methods:** Water may be used to cool exposed containers to prevent pressure build-up and explosion when exposed to extreme heat.

**Specific Hazards:** 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. Water or foam may cause frothing if the product is heated above 93 degrees C (200 degrees F).

**Protection of Firefighters:** Fire fighters should be equipped with NIOSH-approved, self-contained breathing apparatus (SCBA) and full protective clothing.

**6. Accidental Release Measures**

**Personal Precautions:** Avoid excessive skin contact with the spilled material. Avoid inhalation of vapor, fumes, dust and/or mist from the spilled material. Eliminate all sources of ignition or flammables that may come into contact with a spill of this material. 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.

**Methods for Cleaning Up:** Dike the spilled material, where this is possible. Stop the flow of material, if this is without risk. Small Spills: (1) Wipe or mop up; (2) take up with sand or other non-combustible absorbant material. Scrape up the spilled material and transfer to a suitable container for disposal. Thoroughly wash the area after a spill or leak clean-up.



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**7. Handling and Storage**

**Handling:**

**Technical Measures:** HEATING: This product contains Zinc Dialkyldithiophosphata (ZDDP) and should not be heated above 70 degrees C (160 degrees F). Higher temperatures can result in thermal decomposition of the ZDDP and release highly toxic hydrogen sulfide and, possibly, odourous alkyl mercaptans. Hydrogen sulfide smells like rotten eggs in low concentrations but quickly fatigues the sense of smell. It may cause respiratory irritation and failure without any warning odor being sensed. Alkyl mercaptans can be smelled at extremely low concentrations and vapours may travel for a long distance. Avoid the generation of oil mists. Keep this product from heat, sparks, or open flame.

**Precautions and Advice for Safe Handling:** Avoid prolonged or repeated skin contact with this material. Do not breathe gas/fumes/vapor/spray. Keep the container closed when not in use. Wear protective equipment during handling.

**Storage:**

**Technical Measures:** No special precautions.

**Storage Conditions:** 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. Local exhaust is suggested for use, where possible, in enclosed or confined spaces. Eyewash and emergency showers are recommended.



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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 neoprene gloves is recommended.  
 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:** Use of protective coveralls and long sleeves is recommended.  
 Remove contaminated clothing and wash before reuse.

**Hygiene Measures:** Use good personal hygiene.

**9. Physical and Chemical Properties**

**Specific Gravity:** 0.86-0.87

**Physical State:** LIQUID

**Odor:** MILD BLAND PETROLEUM

**Color:** RED

**pH:** N.AP N.AP

**Temperature Range During which Changes in Physical State Occur:**

**Boiling Point:** ND

**Flash Point:** 150 minimum °C ASTM D 93

**Explosion Properties:**

**UEL:** N.AV

**LEL:** N.AV

**Vapor Pressure:** <1@20°C mmHg

**Vapor Density:** >1 (AIR = 1)

**Solubility:** INSOLUBLE IN WATER

**Viscosity:** 43 cSt ASTM D445

**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).

**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, and other low molecular weight hydrocarbons.  
Decomposition of this product may yield oxides of sulfur and nitrogen.  
Decomposition of this product may yield metallic oxides.  
Decomposition of this product may yield oxides of phosphorus.  
Decomposition of this product may emit hydrogen sulfide.

**11. Toxicological Information**

**Chronic (Long Term) Toxicity:** Animal testing data indicate that the reproductive effect (Testicular Atropy) from exposure to ZINC DIALKYL DITHIOPHOSPHATE is a non-specific chemical effect and is caused by stressing the animals due to severe skin irritation and weight loss.  
In some laboratory animal studies ZINC DIALKYL DITHIOPHOSPHATE compounds are suspect of mutagenic effects.

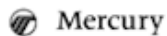
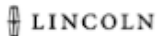
**12. Ecological Information**

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.

**Contaminated Packaging:** No available information.



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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

This product contains NONE of the substances 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 birth defects or other reproductive harm.
This product contains trace amounts of chemicals (<0.01%) being listed on California Prop 65 list.
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

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Preparation Information: The chemical identification and properties for this material were provided by the manufacturer. For Canadian locations, a manufacturer's MSDS is available upon request. Health and safety information has been evaluated by the Occupational and Environmental Health Sciences Department, Ford Motor Company, National Parts General Office, MD74, 29500 Plymouth Road, Livonia, MI 48150, USA.

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**

<b>Product Code</b>	<b>Container Size</b>	<b>Part of Kit</b>	<b>Kit Product Code</b>
F7AZ-3F823-AA	12 fl oz		
XL-8	12 fl oz		
XT-1-QF	1 qt		