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## Safety Data Sheet ATF AUTOMATIC TRANSMISSION FLUID DEXRON - MERCON

**Section 1: Identification**

Flamingo ATF D/M

12/1qt FL301

5g FL305

16g FL306

55g FL309

Bulk FL300

Identified Uses Petroleum oil; Lube oil; Petroleum hydrocarbon; Lubricant.

Recommended Use: For lubrication of automatic and power-shift transmissions. If this product is used in combination with other products, refer to the Safety Data Sheet for those products.

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For lubricating diesel engines.

**Section 2: Hazard(s) Identification**

This material is not classified as hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

Pictograms/Symbol(s): None needed according to classification criteria.

Signal Word: None needed according to classification criteria.

Hazard Statement(s): None needed according to classification criteria.

PRECAUTIONARY STATEMENT(S): Prevention: None needed according to classification criteria.

Response: None needed according to classification criteria.

Storage: None needed according to classification criteria.

Disposal: Dispose of in accordance with all applicable federal, state and local regulations.

Hazard(s) Not Otherwise Classified

Repeated exposure may cause skin dryness or cracking.

**Section 3: Composition/Information on Ingredients**

Component	CASRN	Concentration is an approx.
Lubricating oils, petroleum, hydrotreated spent	64742-58-1	57.5-92.5
Mixture of severely hydrotreated and hydrocracked base oil (petroleum)*	Mixture*	0-30
Substituted alkyl phosphite (Canadian Reg #5624)	Not Available	0.14-0.63

**Section 4: First-Aid Measures****Eye Contact:** Irritation or redness from exposure, flush eyes with clean water. If symptoms persist, seek medical attention.**Skin Contact:** Remove contaminated clothing & shoes and cleanse area thoroughly by washing with soap and water. If irritation or redness appears, seek medical attention.**Inhalation (Breathing):** First aid is not normally necessary. If breathing changes, move to fresh air and seek immediate medical attention.**Ingestion (Swallowing):** Immediately call a POISON CENTER or doctor/physician.**Most important symptoms and effects, both acute and delayed:** Breathing mists/ vapors generated at high temperatures may cause respiratory irritation. Dry skin and possible irritation can develop with repeated or prolonged exposure.

Notes to Physician: Large amounts of oil-laden material may produce serious aspiration pneumonia and could potentially develop problems long term. Inhalation exposure to oil mists less normal exposure are unlikely to cause pulmonary abnormalities.

**Section 5: Fire-Fighting Measures**

## NFPA 704 Hazard Class

Health: 1 Flammability: 1 Instability: 00 (Minimal)

- 1 (Slight)
- 2 (Moderate)
- 3 (Serious)
- 4 (Severe)



**Extinguishing Media:** Use dry chemical, carbon dioxide, water spray or fog. Water or foam may cause frothing of materials heated above 212°F / 100°C. Carbon dioxide can displace oxygen. Be careful if applying carbon dioxide in small enclosed areas. Use of foam and water on the together destroys the foam.

### Specific hazards arising from the chemical:

**Unusual Fire & Explosion Hazards:** If fire happens, container & material may burn, but should not ignite. Product is not sensitive to mechanical impact. Negligible fire hazard. Avoid friction, static electricity, and sparks.

**Hazardous Combustion Products:** Decomposition and combustion materials may be toxic. Burning may produce oxides of sulfur, phosphorus and nitrogen, hydrogen sulfide, alkyl mercaptans, sulfides, aldehydes, carbon dioxide, carbon monoxide and other unidentified organic compounds.

**Special Protective Equipment and Precautions for Firefighters:** A positive-pressure, self-contained breathing apparatus (SCBA) and full-body protective equipment are required for fire emergencies.

**Fire Fighting Measures:** Move container from fire area if it can be done without risk. Keep storage containers cool with water spray. Closed containers may rupture violently when heated. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

**See Section 9 for Flammable Properties including Flash Point and Flammable (Explosive) Limits**

### Section 6: Accidental Release Measures

#### Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment, see Section 8. Avoid release to the environment.

**Methods and Materials for Containment and Clean Up:** Remove all ignition sources. Do not touch or walk through spilled product. Stop leak if possible without personal risk. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Ventilate area and avoid breathing vapor or mist. Contain spill as a liquid for possible recovery, or sorb with compatible sorbent material and shovel with a clean, sparkproof tool into a sealable container for disposal. Additionally, for large spills: Dike far ahead of liquid spill for collection and later disposal.

There may be specific federal regulatory reporting requirement associated with spills, leaks, or releases of this product. See Section 15: Regulatory Information.

### Section 7: Handling and Storage

**Precautions for Safe Handling:** Keep away from sparks or flame. Where flammable mixtures may be present, equipment safe for such locations should be used. Use clean tools and explosion-proof equipment. When large volumes of product, metal containers, including trucks and tank cars, should be grounded and bonded. This product has a low vapor pressure and is not expected to present an inhalation hazard under normal temperatures and pressures. However, aerosolizing, misting, or heating this product, do not breathe vapor or mist. Use in a well ventilated area. Avoid contact with eyes, skin, clothing, and shoes.

**Conditions for Safe Storage, Including Any Incompatibilities:** Keep container tightly closed when not in use and during transport. Store containers in a cool, dry place. Do not pressurize, cut, weld, braze, solder, drill, or grind containers. Keep containers away from heat, flame, sparks, static electricity, or other sources of ignition. Empty product containers may retain product residue and can be dangerous.

**Incompatibilities:** Avoid acids, alkalis, oxidizing agents, reducing agents, halogens, and halogenated hydrocarbons.

### Section 8: Exposure Controls/Personal Protection

**ACGIH, OSHA, and NIOSH have not developed exposure limits for any of this product's components.**

#### Component Exposure Limits

ACGIH, OSHA, and NIOSH have not developed exposure limits for any of this product's components.

**Appropriate Engineering Controls:** Where adequate general ventilation is unavailable, use process enclosures, local exhaust ventilation, or other engineering controls.

**Individual Protective Measures, such as Personal Protective Equipment:** Personal protective equipment should be selected based upon the conditions under which this material is used. A hazard assessment of the work area for PPE requirements should be conducted by a qualified professional pursuant to regulatory requirements. The following PPE should be considered the minimum required: Safety glasses, Gloves, and Lab coat or apron.

**Eyes/Face Protection:** Safety glasses with side shields should be worn at a minimum. Additional protection, such as goggles, face shields, or respirators may be needed depending upon anticipated use and concentrations of vapors or mists. Provide an emergency eye wash fountain and quick drench shower in the immediate work area. Contact lens use is not recommended.

**Skin Protection:** Where skin contact is likely, wear neoprene, nitrile, or equivalent protective gloves; use of natural rubber or equivalent gloves is not recommended.

**Respiratory Protection:** No respiratory protection is normally required. Use NIOSH-certified P- or R- series particulate filter and organic vapor cartridges when concentration of vapor or mist exceeds applicable exposure limits. Protection provided by air purifying respirators is limited. Do not use N-rated respirators. Selection and use of respiratory protective equipment should be in accordance in the USA with OSHA General Industry Standard 29 CFR 1910.134; or in Canada with CSA Standard Z94.4.

Consult with a health and safety professional for specific respirators appropriate for your use.

## Section 9: Physical and Chemical Properties

Note: Unless otherwise stated, values are determined at 20°C (68°F) and 760 mm Hg (1 atm). Data represent typical values and approximations and are not intended to be specifications.

**Flammability (solid, gas):** May Ignite

**Appearance:** Amber liquid; petroleum odor.

**Flash Point:** 352°F (178°C) Cleveland Open Cup

**Physical Form:** Viscous liquid

**Test Method:** Pensky-Martens Closed Cup (PMCC), ASTM D93, EPA 1010

**Odor:** Petroleum

**Odor Threshold:** N/A

**pH:** N/A

**Vapor Density (air=1):** Less than 0.1 mm Hg at 68°F (20°C)

**Melting/Freezing Point:** N/A

**Upper Explosive Limits:** N/A

**Lower Explosive Limits:** N/A

**Evaporation Rate:** N/A

**Percent Volatile:** Negligible

**Specific Gravity (water=1):** 0.86 (water = 1)

**Viscosity:** >20.5 mm<sup>2</sup>/s @ 104°F (40°C)

**Particle Size:** Not applicable

**Boiling Point/Range:** 475°F (246°C) (minimum)

**Vapor Pressure:** Less than 0.1 mm Hg at 68°F (20°C)

**Partition Coefficient (n-octanol/water) (Kow):** N/A

**Solubility in Water:** Insoluble

**Octanol/H<sub>2</sub>O Coeff.:** Not available.

**Auto-ignition Temperature:** N/A

**Decomposition Temperature:** N/A

**Bulk Density:** 7.2 LB/US gal (860 g/l)

## Section 10: Stability and Reactivity

**Reactivity:** Not chemically reactive.

**Chemical stability:** Stable under normal ambient and anticipated conditions of use.

**Possibility of hazardous reactions:** Hazardous reactions not anticipated. Will not polymerize.

**Conditions to avoid:** Avoid sparks, flames, or other sources of ignition.

**Incompatible materials:** Avoid contact with strong oxidizing agents and strong reducing agents. Avoid acids, alkalis, oxidizing agents, reducing agents, halogens, and halogenated hydrocarbons.

**Hazardous decomposition products:** Not anticipated under normal conditions of use.

## Section 11: Toxicological Information

### Substance / Mixture

Acute Toxicity	Hazard	Other Info	LC50/LD50 Data
Inhalation	Unlikely to be harmful	Avoid contact	>5 mg/L approx.
Dermal	Unlikely to be harmful	Avoid contact	> 2 g/kg approx.
Oral	Unlikely to be harmful	Avoid contact	> 5 g/kg approx.

### Toxicity Data and Information

#### Component Analysis - LD50/LC50

**Lubricating oils, petroleum, hydrotreated spent (64742-58-1)**

Dermal LD50 Rabbit >4480 mg/kg; Oral LD50 Rat >2000 mg/kg

**Mixture of severely hydrotreated and hydrocracked base oil (petroleum)\*\*\* (Mixture)**

Dermal LD50 Rabbit >2000 mg/kg; Inhalation LC50 Rat 4.6 mg/L 4 h; Oral LD50 Rat 7400 mg/kg

**Aspiration Hazard:** Not probable

**Ingestion:** May be harmful if swallowed.

**Skin Corrosion/Irritation:** Causes mild skin irritation. Exposure may cause dryness.

**Serious Eye Damage/Irritation:** Causes mild eye irritation.

**Skin Sensitization:** N/A

**Respiratory Sensitization:** N/A

**Specific Target Organ Toxicity (Single & Repeated Exposure):** N/A

**Carcinogenicity:** None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

**Germ Cell Mutagenicity:** No information available for the product.

**Reproductive Toxicity:** No epidemiological data is available for this product.

**Medical Conditions Aggravated by Exposure:** Individuals with pre-existing respiratory tract (nose, throat, and lungs), eye, and/or skin disorders may have increased susceptibility to the effects of exposure.

## Section 12: Ecological Information (non-mandatory)

**GHS Classification:** H412 -- Hazardous to the aquatic environment, chronic toxicity -- Category 3

Long lasting harmful effects to aquatic life.

**Toxicity:** Harmful to aquatic organisms may cause long-term adverse effects in the aquatic environment. Toxic to aquatic life. Spills can have a harmful or damaging effect on the environment.

**Component Analysis - Ecotoxicity - Aquatic Toxicity. Lubricating oils, petroleum, hydrotreated spent (64742-58-1)**

**Duration/Test/Species Concentration/Conditions**

96 Hr LC50 Brachydanio rerio 79.6 mg/L [semi-static]

96 Hr LC50 Pimephales promelas 3.2 mg/L [semi-static]

**Mixture of severely hydrotreated and hydrocracked base oil (petroleum)\*\*\* (Mixture)**

**Duration/Test/Species Concentration/Conditions**

96 Hr LC50 Pimephales promelas 35 mg/L [flow-through]

96 Hr LC50 Pimephales promelas >10000 mg/L [static]

**Persistence and Degradability:** No information available for the product.

**Bioaccumulative Potential:** No information available for the product.

**Mobility in Soil:** No additional information is available.

**Other adverse effects:** No additional information is available.

### Section 13: Disposal Considerations (non-mandatory)

Refer to local and federal regulations as to disposal of waste materials. It is the responsibility of the user to determine the correct waste determinations. This material, if discarded as produced, would not be a federally regulated RCRA "listed" hazardous waste and is not believed to exhibit characteristics of hazardous waste. Ideally, "Used Oil" recycling would be the most environmentally conscious plan for disposal.

### Section 14: Transport Information (non-mandatory)

**Emergency Response Guide Number Reference:** North American Emergency Response Guidebook.

**Transportation Regulations**

**DOT Shipping Name:** Not regulated as a hazardous material.

**TDG Shipping Name:** Not regulated as a dangerous good.

### Section 15: Regulatory Information (non-mandatory)

**Volatile Organic Negligible.** As per 40 CFR Part 51.100(s)

**SARA 302/304**

**Component Analysis:** Based on the ingredient(s) listed in SECTION 3, this product does not contain any "extremely hazardous substances" listed pursuant to Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) Section 302 or Section 304 as identified in 40 CFR Part 355, Appendix A and B.

**CERCLA/SARA - Section 311/312 (Title III Hazard Categories)**

Acute Health Hazard: Yes

Chronic Health Hazard: Yes

Fire Hazard: No

Pressure Hazard: No

Reactive Hazard: No

**SARA Section 313**

**Component Analysis:** This product contains a "toxic" chemical subject to the requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR Part 372.

**Zinc, dithiophosphate\*\* (Proprietary)** 1.0 % de minimis concentration (related to Zinc compounds)

**Toluene (108-88-3)** 1.0 % de minimis concentration

**Diphenylamine (122-39-4)** 1.0 % de minimis concentration

**CERCLA Component Analysis:** Based on the ingredient(s) listed in SECTION 3, this product contains the following "hazardous substance" listed under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) in 40 CFR Part 302, Table 302.4 with the following reportable quantities (RQ):

Toluene (108-88-3) 1000 lb final RQ; 454 kg final RQ

**TSCA Inventory:** All the components of these products are listed on, or are automatically included as "naturally occurring chemical substances" on, or are exempted from the requirement to be listed on, the TSCA Inventory.

**Component Analysis:**

Component	CAS#	TSCA
Lubricating oils, petroleum, hydrotreated spent	64742-58-1	Yes
Mixture of severely hydrotreated and hydrocracked base oil (petroleum)	Mixture	Yes

**U.S. State Regulations:** None of this product's components are listed on the state lists from CA, MA, MN, NJ or PA.

This product does not contain any chemical known to the State of California to cause cancer.

This product does not contain any chemical known to the State of California to cause birth defects or other reproductive harm.

**Canadian Regulations:** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all information required by the CPR. This product contains a proprietary component (substituted alkyl phosphite) that is registered with Canada (registration number is 5624).

**Canadian WHMIS Information:** No classification is assigned based on classification criteria.

**Component Analysis** Not regulated.

### Section 16: Other Information

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