

**MATERIAL SAFETY DATA SHEET**

Date Issued: 12/13/02

**SECTION A - IDENTIFICATION & EMERGENCY INFORMATION**

Manufacturer's Name: Castrol Heavy Duty Lubricants Inc.  
Emergency Telephone Number: 410-574-5000  
800-777-1466

Address: 9300 Pulaski Highway  
Baltimore, MD 21220

**PRODUCT NAME:** Castrol MP Dexron III/Mercon

Part Number: 2500

Chemical Family: Petroleum Oil (Automatic Transmission Fluid)  
Product Appearance & Odor: Clear Red Liquid,  
Mild, Bland Petroleum Odor

CAS Number (For Finished Product):  
**COMPLEX MIXTURE**  
CAS Number Not Applicable

**HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS)**

Health - 1 Flammability - 1 Reactivity - 0

Hazard Rating: Least-0 Slight-1 Moderate-2 High-3 Extreme-4

**SECTION B - COMPONENTS & HAZARD INFORMATION**

<u>COMPONENTS</u>	<u>CAS NO. OF COMPONENTS</u>	<u>APPROXIMATE CONCENTRATION</u>
Lubricating Oil Base Stock	64741-88-4	Greater than 80%
Proprietary Additives	Mixture	Less than 20%

Exposure Limit for Total Product: 5mg/m<sup>3</sup> oil mist for an 8-hour workday. Basis: OSHA Reg. 29 CFR 1910.1000

CERCLA Hazardous Substances: None known. If this product is accidentally spilled, it is not subject to any special reporting under the requirements of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). We recommend you contact local authorities to determine if there may be other local reporting requirements. US TSCA Inventory: All components of this material are on the US TSCA Inventory. Threshold Planning Quantity (TPQ), EPA Regulation 40 CFR 355 Extremely Hazardous Substances (SARA Sections 301-304): None. Toxic Chemical Release Reporting, EPA Regulation 40 CFR 372 (SARA Section 313): Not Applicable.

**SECTION C - PHYSICAL DATA (THE FOLLOWING DATA ARE APPROXIMATE OR TYPICAL VALUES.)**

Boiling Range: Not Determined  
Specific Gravity (H<sub>2</sub>O=1): .8660 approx.  
Pour Point: -50°C  
Viscosity: 100°C cSt 7.34 approx.  
Solubility in Water: Negligible, less than 0.1%

Percent Volatile by Volume: NEGLIGIBLE  
Vapor Pressure: NEGLIGIBLE  
Vapor Density: GREATER THAN AIR  
Evaporation Rate: NEGLIGIBLE

**SECTION D - FIRE PROTECTION INFORMATION**

**FLASH POINT & METHOD:** Min. ASTM D-92 C.O.C. °C, (°F.)  
183 (360)

**AUTO IGNITION TEMPERATURE:**  
Not Determined

**NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)-Hazard Identification**  
Health - 1  
Flammability - 1  
Reactivity - 0

Basis: Recommended by Castrol Heavy Duty Lubricants Inc.

**Hazard Rating (NFPA):**  
4-Extreme 3-High 2-Moderate  
1-Slight 0-Insignificant

**UNUSUAL FIRE & EXPLOSION HAZARDS:**

None

**Flammability Limits (% by volume in air):**  
Lower: Not determined Upper: Not determined

## SECTION D - FIRE PROTECTION INFORMATION (Continued)

**HANDLING PRECAUTIONS:** Use product with caution around heat, sparks, pilot lights, static electricity and open flame.

**COMPOSITION PRODUCTS UNDER FIRE CONDITIONS:** Minimize breathing of gases, vapor, fumes or decomposition products. Use supplied-air breathing equipment for enclosed or confined spaces or as otherwise needed.

**EXTINGUISHING MEDIA & FIRE FIGHTING PROCEDURES:** Foam, water spray (fog), dry chemical, carbon dioxide and vaporizing liquid type extinguishing agents may all be suitable for extinguishing fires involving this type of product, depending on the size or potential size of fire and circumstances related to the situation. Plant fire protection and response strategy through consultation with local fire protection authorities or appropriate specialists.

The following procedures for this type of product are based on the recommendations in the National Fire Protection Associations' *Fire Protection Guide on Hazardous Materials*. Use water spray, dry chemical, foam, or carbon dioxide to extinguish the fire.

**EMPTY CONTAINER WARNING:** "Empty" containers retain residue (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 OR OTHER SOURCES OF IGNITION: THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to clean since residue is difficult to remove. "Empty" drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All other containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

## SECTION E - PROTECTION & PRECAUTIONS

**VENTILATION:** Use local exhaust to capture vapor, mists or fumes, if necessary. Provide ventilation sufficient to prevent exceeding recommended exposure limit or buildup of explosive concentrations of vapor in air. No smoking, flame or other ignition sources.

**RESPIRATORY PROTECTION:** Use supplied-air respiratory protection in confined or enclosed spaces, if needed.

**PROTECTIVE GLOVES:** Use chemical-resistant gloves, if needed, to avoid prolonged or repeated skin contact.

**EYE PROTECTION:** Use splash goggles or face shield when eye contact may occur.

**OTHER PROTECTIVE EQUIPMENT:** Use chemical-resistant apron or other impervious clothing, if needed, to avoid contaminating regular clothing, which could result in prolonged or repeated skin contact.

**WORK PRACTICES / ENGINEERING CONTROLS:** Keep containers closed when not in use. Do not store near heat, sparks, flame or strong oxidants. In order to prevent fire or explosion hazards, use appropriate equipment.

**PERSONAL HYGIENE:** Minimize breathing vapor, mist or fumes. Avoid prolonged or repeated contact with skin. Remove contaminated clothing: launder or dry-clean before reuse. Remove contaminated shoes and thoroughly clean before reuse; discard if oil-soaked. Cleanse skin thoroughly after contact, before breaks and meals, and at end of work period. Product is readily removed from skin by waterless hand cleaners followed by washing thoroughly with soap and water.

**VARIABILITY-AMONG INDIVIDUALS:** Health studies have shown that many petroleum hydrocarbons and synthetic lubricants pose potential human health risks, which may vary from person to person. As a precaution, exposure to liquids, vapors, mists or fumes should be minimized.

## SECTION F - SPILL OR LEAK PROCEDURE

**ENVIRONMENTAL IMPACT:** Report spills as required to the appropriate authorities. US Coast Guard Regulations require immediate reporting of spills that could reach any waterway including intermittent dry creeks. Report spill to the Coast Guard toll free number 800-424-8802.

**PROCEDURES IF MATERIAL IS RELEASED OR SPILLED:** Recover free product. Add sand, earth, or other suitable absorbent material to the spill area. Minimize breathing vapors. Minimize skin contact.

Keep product out of sewers and watercourses by dicing or impounding. Advise authorities if the product has entered or may enter sewers, watercourses, or extensive land areas. **ASSURE CONFORMITY WITH ALL APPLICABLE REGULATIONS.**

**WASTE DISPOSAL:** Dispose of in an environmentally safe manner and in accordance with all government regulations to include Federal, State, and local requirements.

## SECTION G - REACTIVITY

**STABILITY:** Stable

**HAZARDOUS POLYMERIZATION:** Will not occur.

**CONDITIONS & MATERIALS TO AVOID:** Avoid heat, open flames and oxidizing materials.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition products are highly dependent on the combustion conditions. A complex mixture of airborne solid, liquid, particulates and gases will evolve when this material undergoes combustion. Carbon monoxide and other unidentified organic compounds may be formed upon combustion.

## SECTION H - EMERGENCY & FIRST AID PROCEDURES AND PRIMARY ROUTES OF ENTRY

**EYE CONTACT:** If splashed into the eyes, flush with clear water for 15 minutes or until irritation subsides. If irritations persist, call a physician. **SKIN CONTACT:** In case of skin contact, remove any contaminated clothing and wash skin thoroughly with soap and water.

**INGESTION:** If ingested, DO NOT induce vomiting; call a physician immediately.

**INHALATION:** Vapor pressure is very low. Vapor inhalation under ambient temperature conditions is not normally a problem. If overcome by vapor from hot product, immediately remove from exposure and call a physician. Administer oxygen, if available. If over-exposed to oil mist, remove from further exposure until excessive mist oil condition subsides.

## SECTION I - EFFECTS OF OVEREXPOSURE

**SKIN:** Prolonged or repeated skin contact may cause skin irritation. **EYE:** May cause eye irritation. **INGESTION:** Relatively nontoxic.

## SECTION J - TRANSPORTATION INFORMATION

**DEPARTMENT OF TRANSPORTATION (DOT) - DOT Identification Number:** Not Regulated.

**THE PRECISE COMPOSITION OF THIS MIXTURE IS PROPRIETARY INFORMATION. A MORE COMPLETE DISCLOSURE WILL BE PROVIDED TO A PHYSICIAN OR NURSE IN THE EVENT OF A MEDICAL EMERGENCY.**