

**CASTROL NORTH AMERICA INC.
CONSUMER
MATERIAL SAFETY DATA SHEET**

SECTION I: IDENTITY

Product/Material Name: Castrol Heavy Duty Motor Oil SAE 30; Castrol Heavy Duty Motor Oil SAE 40; Castrol Heavy Duty Motor Oil SAE 50
Chemical Name: Mixture
Chemical Family/Classification: Petroleum hydrocarbon
Molecular Weight: NA **Chemical Formula:** NA
Material Use: Motor Oil

HMIS HAZARD RATING:

[0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe]

Health: 1
Flammability: 1
Reactivity: 0

WARNING STATEMENTS (If Applicable):

WARNING! AVOID SKIN CONTACT WITH USED MOTOR OILS.

MANUFACTURER'S/ SUPPLIER NAME & ADDRESS:

In the US:
Castrol North America Inc.
1500 Valley Road
Wayne, NJ 07474
Telephone: (973) 633-2200
Telecopier: (973) 633-7475

In Canada:
Castrol Canada Inc.
3660 Lakeshore Blvd West
Toronto, Ontario M8W 1P2
Telephone: (416) 252-5511
Telecopier: (416) 252-1774

IN THE EVENT OF AN EMERGENCY PLEASE CALL: BP Emergency Response Center 1-800-321-8642

Date Prepared/Updated: 08/21/2000

Preparer: Regulatory, Environmental, Safety Department
Telephone: (973) 633-2200

SECTION II: PRODUCT/HAZARDOUS INGREDIENT INFORMATION

INGREDIENTS - CHEMICAL/Common Name	EXPOSURE LIMITS - TLV	LD ₅₀	LC ₅₀	%
Severely refined petroleum basestocks. May contain one or more of the following CASRN, 64742-41-2; 64741-88-4; 64742-01-4; 64742-41-2; 64742-46-7; 64742-54-7; 64742-56-9; 64742-57-0; 64742-62-7; 64742-65-0; 72623-83-7; 72326-84-8; 72623-85-9; 72623-86-0; 72623-87-1	PEL/TWA: 5 mg/m ³ , mist (OSHA, ACGIH) STEL: 10 mg/m ³ , mist (ACGIH)	Oral, rat: > 5 g/kg.	Inhalation, 4 hr., rat: > 5000 mg/m ³	60-100
Multi-functional additive mixture composed of organo-metallic compounds, typically containing zinc dialkyl dithiophosphate, calcium salts of alkylated phenol sulfides, alkylated diphenyl amines [CASRN NA, mixture]	ND	ND	ND	10-30
Methacrylate polymer and/or ethylene-propylene copolymer with a nitrogen functional group blend [CASRN NA, mixture]	ND	ND	ND	1-5

NOTE:

Product contains no materials currently classified as carcinogenic per the Annual Report of the National Toxicology Program [NTP], OSHA Hazard Communication Standard or the International Agency for Research on Cancer [IARC, Groups 1, 2A or 2B].

SECTION III: FIRST AID MEASURES

Signs/Symptoms: Transient eye irritation, redness, tearing.

Eye contact: Flush with clear water for at least 15 minutes or until any irritation subsides. If irritation persists, seek medical attention.

Skin contact: Remove contaminated clothing and wash before reuse. Wipe excess material from skin. Wash exposed area with soap and water.

Inhalation: If irritation or drowsiness occur, move the person to fresh air. Administer respiratory assistance if breathing is difficult or stops; Consult a physician.

Ingestion: Give plenty of water or other mild drinkable fluids and call a physician immediately. Do not induce vomiting without express consent of medical personnel.

SECTION IV: HEALTH HAZARD DATA

Exposure Limits:

See Section II, Product/Ingredient Information.

(For product) - Recommend using 5 mg/m³ for mineral oil mist averaged over an 8 hour daily exposure, based on established OSHA and ACGIH limits.

PRIMARY ROUTES OF ENTRY:

- Eye Contact
- Skin Contact
- Skin Absorption
- Inhalation (Acute)
- Inhalation (Chronic)
- Ingestion

EFFECTS OF EXPOSURE**Acute - (Evaluation based on components and/or similar products)**

Eyes: Not expected to cause prolonged or significant eye irritation.

Skin: Not expected to cause prolonged or significant skin irritation.

Respiratory system: Harmful concentrations of mists/vapors are unlikely through customary handling or use of this product.

Ingestion: Low order of toxicity, but may cause gastrointestinal disturbances, diarrhea. Ingestion of large amounts may cause headache, drowsiness, nausea, vomiting or diarrhea.

Chronic -

Prolonged or repeated skin contact may cause skin drying, cracking, irritation, defatting and dermatitis.

WARNING! AVOID SKIN CONTACT WITH USED MOTOR OILS. Used motor oils have caused skin cancer in laboratory animals when repeatedly applied and left in place between applications.

The product contains petroleum baseoils which may be refined by various processes including severe solvent extraction, severe hydrocracking, or severe hydrotreating. None of the oils require a cancer warning under the OSHA Hazard Communication Standard [29 CFR 1910.1200]. These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A) or possibly carcinogenic to humans (Group 2B).

Medical Conditions Generally Aggravated by Exposure: Pre-existing skin disorders.

TOXICOLOGY DATA (Product)**Acute Data (Median Lethal Dose - species)**

Oral LD₅₀ - rat: ND

Dermal LD₅₀ - rabbit: ND

Inhalation LC₅₀ - rat: ND

Irritancy Data

Eye irritation - rabbit: ND

Skin irritation - rabbit: ND

Sensitization - guinea pig: ND

Other: No data regarding presence of carcinogenicity, tetragenicity, mutagenicity, respiratory toxicity, sensitizing ability or synergistic substances.

SECTION V: EMPLOYEE PROTECTION

Ventilation:

No special ventilation is usually necessary. However, if operating conditions may create high airborne concentrations of this material, special or local ventilation may be needed.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: None required under normal use. If exposure is expected to exceed occupational exposure limits, use a NIOSH-approved respirator to prevent overexposure. In accordance with 29 CFR 1910.134, use either an atmosphere supplying respirator or an air-purifying respirator for organic vapors and particulates.

Eye: Safety goggles or glasses.

Gloves (specify): Wear oil impervious type, such as neoprene, nitrile, polyvinylchloride, to minimize skin contact.

Clothing: No special requirement; Normal work clothing. A coverall or apron may be used to minimize skin contact

Footwear: No special requirement.

Other: NA

Work/Hygienic Practices: Avoid prolonged and repeated skin contact. Do not wear contaminated clothing; Launder before reuse or discard. Wash thoroughly with soap and water after handling.

Storage/Handling: Keep containers closed when not in use. Do not store near heat, sparks, flame or strong oxidants. Avoid breathing mist. Maintain adequate ventilation. Avoid prolonged or repeated contact with skin.

SECTION VI: PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: > 500°F (> 260°C)

Specific Gravity (Water=1): 0.89

Vapor Pressure (mm.Hg. @ 25 °C): < 0.01

Vapor Density (Air=1): > 1

Percent Volatiles: Negligible

Evaporation Rate(BuAc=1): < 0.1

Solubility in Water: Negligible

Freezing Point: -6°F to -40°F (-21°C to -40°C)

pH-Value: NA

Viscosity @ 100 °C, cSt.: SAE 30: 11.7
SAE 40: 13.5
SAE 50: 18.0

Odor Threshold: NA

Coefficient of Water/Oil Distribution: ND

Appearance, Odor & Physical State: Clear, amber liquid; mild petroleum odor

SECTION VII: FIRE AND EXPLOSION DATA

FLAMMABILITY Yes [X] No [] NFPA Class IIIB material - Combustible liquid

Flash Point (COC): 446°F (230°C)

Fire Point (COC): 470°F (243°C)

Autoignition Temperature: ND

Flammability limits in Air, % Vol.: Upper - ND Lower - ND

Extinguishing Media:

CO₂, dry chemical, foam and water fog. Do not use water jets.

Special Firefighting Procedures/Unusual and Explosion Hazards:

Material must be preheated to burn. Do not enter confined areas without full protective equipment, including a positive pressure NIOSH approved self-contained breathing apparatus. Cool fire exposed containers with water.

EXPLOSION DATA

Sensitivity to Mechanical Impact: NA

Sensitivity to Static Discharge: NA

SECTION VIII: REACTIVITY

Stability: Stable at ambient temperatures

Hazardous Polymerization: Will not occur.

Conditions and Materials to Avoid (Incompatibilities):

Heat, open flame and oxidizing materials.

Hazardous Combustion or Decomposition Products:

Smoke, fumes, oxides of carbon

SECTION IX: ENVIRONMENTAL PROTECTION

CHEMTREC EMERGENCY PHONE NUMBER: (800) 424 -9300, 24 hrs. for U.S. transportation related spills, leaks, fire, exposure or accident.

CANUTEC EMERGENCY PHONE NUMBER: (613) 996-6666, 24 hrs. for Canadian transportation related spills, leaks, fire, exposure or accident.

Spill or Leak Procedures:

Product may burn but is not readily ignitable. Use best engineering practices when attempting cleanup of a large spill.

Large spills - Wear respirator and protective clothing as appropriate. Stop source of leak if possible. Prevent entry into water sources. Dike and contain spill. Remove with vacuum trucks or pump to storage/salvage vessels. Soak up residue with an inert absorbent such as clay, sand or other suitable materials; Store and dispose of properly. Where feasible and appropriate, remove contaminated soil.

Small spills - Soak up spill with an inert absorbent such as clay, sand or other suitable materials; Store in a closed container and dispose of properly.

Regulatory spill reporting requirements may apply; Contact governmental agency or legal counsel for advice.

Waste Disposal Method:

If discarded as supplied, material does not meet RCRA characteristic definition of ignitability, corrosivity or reactivity and is not listed in 40 CFR 261.33. The toxicity characteristic has not been evaluated.

Under RCRA, the applicable hazardous waste classification must be evaluated prior to disposal of the material. Use of the product, processing or contamination may render the resulting material hazardous.

All recovered material should be packaged, labeled, transported and disposed of or reclaimed in accordance with governmental regulations regarding air pollution, water pollution or health.

Don't pollute - Conserve Resources. Dispose of used oil properly.

CAUTION: Improper disposal or reuse of the empty container may be hazardous and illegal. Cutting or welding of empty containers may cause fire, explosion or toxic fumes from residues. Do not pressurize or expose to open flame or heat. Keep container closed and drum bungs in place. Refer to applicable governmental regulations.

SECTION X: REGULATORY INFORMATION

TRANSPORTATION

Special Shipping Information/DOT Proper Shipping Name: Not regulated.

CHEMICAL CONTROL REGULATIONS:

TSCA Status: All components of this material appear on the Toxic Substance Control Act Chemical Substances Inventory.

CEPA Status: All components of this product are in compliance with chemical notification requirements under the Canadian Environmental Protection Act.

Canadian Workplace Hazardous Material Identification System (WHMIS) Classification: Material is not a "controlled product".

EPCRA (SARA Title III):

Section 302/304 Extremely Hazardous Substance: NA

CERCLA Section 102(a) Hazardous Substance: NA

Section 311 Hazard Category

- Acute (immediate)
- Chronic (delayed)
- Fire
- Sudden Release of Pressure
- Reactive
- Not applicable

Section 313 Toxic Release Inventory Chemical/Category:

Zinc compounds, 3.0% (wt.) max.

U.S. STATE RIGHT TO KNOW LAWS

New Jersey Worker and Community Right to Know Act, N.J.A.C. 8:59 -5 Labelling Information: Motor Oil

NOTICE:

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