

Product: MerCruiser Diesel Engine Oil (15W-40)

Product #: 92-877695K 1, 92-881110K 1, 92-881111K 1

SECTION I - MANUFACTURER INFORMATION

Name: Mercury Marine

Address: W6250 W. Pioneer Rd.

PO Box 1939

Fond du Lac WI 54936-1939

Emergency: 800-424-9300 (ChemTrec)

Information: 920-929-5418

Date Prepared: 08-02-99

Revised: 06-10-02

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components*	OSHA PEL	ACGIH TLV	Other	% (Opt.)
Distillates, petroleum, solvent-refined heavy paraffinic (64741-88-4)	N/D	N/D		75-95
Distillates, petroleum, hydrotreated heavy paraffinic (64742-54-7)	N/D	N/D		0-20
Proprietary Ingredients (Proprietary Mixture)	N/D	N/D		1-10
Zinc alkyldithiophosphate (68649-42-3)	N/D	N/D		0-2

*Specific Chemical Identity, Common Name (CAS)

**Product Exposure Limits for OSHA PEL and ACGIH TLV: 5mg/m³ Oil Mist, Mineral

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: N/AV

Vapor Pressure (mmhg): < 0.1 @ 20°C

Vapor Density (Air=1): > 1

Solubility in Water: Insoluble in cold water

Appearance/Odor: Light amber to amber liquid; mild petroleum odor

HMIS Rating: H-0 F-1 R-0 P-Section VIII

Specific Gravity (H₂O=1): 0.88

Melting Point: N/AV

Evaporation Rate: N/D

(Butyl Acetate=1)

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): 394°F (CC) 439°F (OC) **NFPA Rating:** H-0 F-1 R-0 S-N/D

Flammable Limits: LEL - N/D UEL - N/D

Extinguishing Media: Dry chemical, foam, carbon dioxide, or water fog

Special Fire Fighting Procedures: Firefighters must use full bunker gear including NIOSH-approved positive pressure, self-contained breathing apparatus to protect against potential hazardous combustion or decomposition products and oxygen deficiencies.

Unusual Fire and Explosion Hazards: When heated above its flash point temperature, this material will release vapors that can ignite when exposed to an ignition source. Vapors in enclosed spaces can ignite with explosive force. Mists or sprays may burn at temperatures below the flash point.

SECTION V - REACTIVITY DATA

Stability: Unstable () Stable (X)

Conditions to Avoid: Extreme heat, sparks, open flame, and strongly oxidizing conditions

Incompatibility (Materials to Avoid): Strong oxidizers

Hazardous Decomposition or Byproducts: Carbon Dioxide, carbon monoxide, smoke, fumes, unburned hydrocarbons and trace oxides of sulfur, phosphorus, zinc, and/or nitrogen.

Hazardous Polymerization: May Occur () Will Not Occur (X)

ADDITIONAL INFORMATION

Mercury Marine Emergency Information Number: 920-929-5000

Manufacturer, Citgo Petroleum Corp., Emergency Number: 800-424-9300 (Chemtrec)

SECTION VI - HEALTH HAZARD DATA

Route(s) of Entry: Inhalation (Y) Skin (Y) Eye (Y) Ingestion (Y)

Health Hazards (Acute and Chronic): **Acute:** Inhalation - No significant adverse health effects are expected to occur from short-term exposure. Eye - Can cause mild, transient irritation with short-term contact with liquid sprays or mists. Skin - Can cause mild, transient skin irritation with short-term exposure. Ingestion - If a teaspoon or more of material is swallowed, can cause a laxative effect. **Chronic:** Contains a petroleum-based material oil. Prolonged or repeated skin contact can cause mild irritation and inflammation characterized by drying, cracking (dermatitis), or oil acne. Petroleum-based mineral oils can cause respiratory irritation or other pulmonary effects after repeated or prolonged inhalation of oil mists at concentrations above applicable workplace exposure levels.

Carcinogenicity: NTP (N) IARC Monographs (N) OSHA Regulated (N)

Signs and Symptoms of Exposure: See Health Hazards (Acute and Chronic)

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

Emergency and First Aid Procedures: Inhalation - Move person to fresh air. Eye - Check and remove contact lenses if any. Flush eyes with cool, clean, low-pressure water while lifting and lowering eyelids. Seek medical attention if excessive tearing, redness, or pain persists. Skin - Remove contaminated clothing and shoes. Wipe off excess material. Wash exposed area with soap and water. Seek medical attention if tissue appears damaged or if irritation persists. Launder contaminated clothing prior to use. If material is injected under the skin, into the muscle, or into the bloodstream, seek medical attention immediately. Ingestion - Do not induce vomiting unless directed by a physician. Do not give anything by mouth unless directed by a physician. Never give anything by mouth to an unconscious person. Seek medical attention immediately.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken in Case Material is Released or Spilled: Do not touch damaged containers or spilled material unless wearing appropriate protective equipment. Slipping hazard; do not walk through spilled material. Stop leak if you can do so without risk. **Small Spills:** Absorb or cover with dry earth, sand, or other inert non-combustible absorbent material and place into waste containers for later disposal. **Large Spills:** Contain to maximize product recovery or disposal. Prevent entry into waterways or sewers. In urban area, clean up spill as soon as possible. In natural environments, seek cleanup advice from specialists to minimize physical habitat damage. This material will float on water. Absorbent pads and similar materials can be used. Comply with all laws and regulations.

Waste Disposal Method: User to determine if the material is a hazardous waste at time of disposal. Transportation, treatment, storage, and disposal of waste material must be conducted in accordance with RCRA regulations (40 CFR 260-271). Also check state and local regulations prior to disposal. Contact RCRA/Superfund Hotline at 800-424-3946 for guidance concerning case-specific disposal issues.

Precautions to be taken in Handling and Storing: Avoid water contamination and extreme temperatures to minimize product degradation. Empty containers may contain product residue that can ignite with explosive force. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose containers to flames, sparks, heat, or other potential ignition sources. Keep container closed. Do not store with oxidizing agents. Do not store at temperatures above 120°F or in direct sunlight for extended periods of time.

Other Precautions: KEEP AWAY FROM CHILDREN!

SECTION VIII - CONTROL MEASURES

Respiratory Protection (Specify Type): None under normal usage. If elevated airborne concentrations are anticipated, use a NIOSH-approved organic vapor respirator equipped with a dust/mist prefilter.

Ventilation: Local Exhaust & Mechanical: To keep airborne concentrations of mists and/or vapors below recommended exposure limits.

Protective Gloves: Chemical-resistant gloves (neoprene or heavy nitrile rubber)

Eye Protection: Safety glasses with sideshields should be adequate. Wear goggles and/or face shield if splashing/spraying is likely or if material is heated above 125°F.

Other Protective Clothing or Equipment: Impervious (Tyvek[®], nitrile, or neoprene) protective clothing should be worn if splashing or spraying is expected. Launder contaminated clothing prior to re-use.

Work/Hygiene Practices: Always follow good housekeeping and personal hygiene practices.

N/D = NOT DETERMINED (NO DATA)

N/E = NONE ESTABLISHED

Y = YES

N/A = NOT APPLICABLE

N/AV = NOT AVAILABLE

N = NO

Pursuant to Proposition 65: Certain raw materials used in making this product may contain small amounts of materials as impurities that are regulated by Proposition 65 which applies to a list of chemicals named by the Governor of California as carcinogens or reproductive toxins. Warning requirements for specific chemicals take effect one year after they are added to the Governor's List. Other chemicals already added to the Governor's List will be regulated later under Proposition 65.

Toluene: 0.001%