

**Product:** 4-Stroke Outboard Oil (10W-30)**Product #:** 92-: 802833A 1, 802833A40, 802835A 1, 802835A30, 802836A 1, 802836A 4, 858607K 1**SECTION I - MANUFACTURER INFORMATION**

|                                      |                                           |
|--------------------------------------|-------------------------------------------|
| <b>Name:</b> Mercury Marine          | <b>Emergency:</b> 800-424-9300 (ChemTrec) |
| <b>Address:</b> W6250 W. Pioneer Rd. | <b>Information:</b> 920-929-5418          |
| PO Box 1939                          | <b>Date Prepared:</b> 07-14-94            |
| Fond du Lac WI 54936-1939            | <b>Revised:</b> 01-29-03                  |

**SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION**

| Hazardous Components*                                                 | OSHA PEL | ACGIH TLV | Other | % (Opt.) |
|-----------------------------------------------------------------------|----------|-----------|-------|----------|
| Distillates, petroleum, hydrotreated heavy paraffinic (64742-54-7)    | **       | **        |       | 30-50    |
| Distillates, petroleum, solvent-refined heavy paraffinic (64741-88-4) | **       | **        |       | 40-60    |
| Proprietary Ingredients (Proprietary Mixture)                         | N/A      | N/A       |       | 0-10     |
| Zinc & zinc compounds (68649-42-3)                                    | N/A      | N/A       |       | 0-2      |
|                                                                       |          |           |       |          |

\* Specific Chemical Identity, Common Name (CAS)

\*\*Oil Mist, Mineral Exposure Limits for OSHA PEL and ACGIH TLV are 5m<sup>3</sup>/m<sup>3</sup>**SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS**

|                                                               |                                                  |
|---------------------------------------------------------------|--------------------------------------------------|
| <b>Boiling Point:</b> N/AV                                    | <b>Specific Gravity (H<sub>2</sub>O=1):</b> 0.87 |
| <b>Vapor Pressure (mmhg):</b> < .01 @ 20°C                    | <b>Melting Point:</b> N/AV                       |
| <b>Vapor Density (Air=1):</b> > 1                             | <b>Evaporation Rate:</b> N/D                     |
| <b>Solubility in Water:</b> Insoluble in cold water           | <b>(Butyl Acetate=1)</b>                         |
| <b>Appearance and Odor:</b> Amber liquid, mild petroleum odor | <b>HMIS Rating:</b> H-0 F-1 R-0 P-Section VIII   |

**SECTION IV - FIRE AND EXPLOSION HAZARD DATA****Flash Point (Method Used):** 381°F (CC) 430°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, if exposed to an ignition source, can ignite. In enclosed spaces, heated vapor 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:** Keep away from extreme heat, sparks, open flame, and strongly oxidizing conditions.**Incompatibility (Materials to Avoid):** Strong oxidizers**Hazardous Decomposition or Byproducts (Thermal):** Carbon dioxide, carbon monoxide, smoke, fumes, unburned hydrocarbons and trace oxides of sulfur, phosphorous, 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 Co., Emergency Number: 800-424-9300 (ChemTrec)

**SECTION VI - HEALTH HAZARD DATA****Route(s) of Entry:** Inhalation (Y) Skin (Y) Ingestion (Y)**Health Hazards (Acute and Chronic):** Acute: Inhalation - No significant adverse health effects are expected to occur upon short-term exposure. Eye - Mild, transient irritation with short-term contact of liquid sprays or mists. Skin - Mild, transient irritation with short-term exposure. Ingestion - If swallowed, large volumes of material can cause generalized depression, headache, drowsiness, nausea, vomiting, and diarrhea. Smaller doses can cause laxative effect. If aspirated into the lungs, liquid can cause lung damage. Chronic: Prolonged or repeated contact can cause mild skin irritation and inflammation characterized by drying, cracking, dermatitis, or oil acne. Repeated or prolonged inhalation of mists at concentrations above workplace exposure can cause respiratory irritation or other pulmonary effects.**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 the person to fresh air. Eye - Remove contact lenses. Flush eyes with cool, clean, low-pressure water while occasionally lifting and lowering eyelids. Seek medical attention if excessive tearing, redness, or pain persists. Skin - Remove contaminated clothing. Wipe off excess material from skin. Wash exposed skin with soap and water. Seek medical attention if tissue appears damaged or if irritation persists. Ingestion - DO NOT INDUCE VOMITING unless directed by a physician! Do not give anything to drink unless directed to by a physician. Never give anything by mouth to a person who is not fully conscious. Seek medical attention immediately. Injection - This is a medical emergency. 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. Stop leak if you can do so without risk. **Small Spill:** Absorb or cover with dry earth, sand, or other inert non-combustible absorbent material. Place into waste containers for later disposal. **Large Spill:** Contain spill. Prevent entry into waterways or sewers. In urban areas, 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. Transfer to secure containers.**Waste Disposal Method:** Determine if material is a hazardous waste at time of disposal. Transportation, treatment, storage, and disposal of material must be conducted in accordance with RCRA regulations. State or local regulations may be more restrictive. Contact the RCRA/Superfund Hotline at (800) 424-9346 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 residues that can ignite with explosive force. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to flames, sparks, heat, or other potential ignition sources. Keep container closed when not in use. Do not store with strong oxidizing agents. Do not store at elevated temperatures or in direct sunlight.**Other Precautions: KEEP AWAY FROM CHILDREN!****SECTION VIII - CONTROL MEASURES****Respiratory Protection (Specify Type):** Normally none required. A NIOSH-approved organic vapor respirator equipped with a dust/mist prefilter should be used if elevated airborne concentrations are anticipated.**Ventilation: Local & Mechanical** - To keep airborne concentrations of mists and/or vapors below the recommended exposure limits.**Protective Gloves:** Use chemical-resistant (neoprene or heavy nitrile rubber) for frequent or prolonged contact.**Eye Protection:** Safety glasses w/side shields. Goggles and/or face shield if splashing/spraying or material is heated above 125°F.**Other Protective Clothing or Equipment:** Use clean and impervious protective clothing (e.g., neoprene or Tyvek) is splashing or spray conditions are present. Launder soiled work clothes before reuse.**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