

Product: 4-Cycle/4-Stroke/MerCruiser Synthetic Blend Outboard Oil (25W-40)

Product #: 92-858016K01, 92-858017K01, 92-883722K01, 92-883723K01, 92-883724K01, 92-883725K01

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: 03-09-04
Revised:

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components*	OSHA PEL	ACGIH TLV	Other	% (Opt.)
Distillates, petroleum, solvent-refined heavy paraffinic (64741-88-4)	5mg/m ³ **	5mg/m ³ **		70-90
Distillates, petroleum, hydrotreated heavy paraffinic (64742-54-7)	5mg/m ³ **	5mg/m ³ **		0-15
1-Decene trimer, hydrogenated (68649-12-7)	N/D	N/D		1-10
1-Decene homopolymer, hydrogenated (68037-01-4)	N/D	N/D		1-10
Proprietary Ingredients (Proprietary Mixture)	N/D	N/D		1-5
Zinc and Zinc Components (Proprietary)	N/D	N/D		0-2

* Specific Chemical Identity, Common Name (CAS)

**Oil Mist, Mineral Limits

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: N/AV
Vapor Pressure (mmhg): < .01 @ 20°C
Vapor Density (Air=1): > 1
Solubility in Water: Insoluble in cold water
Appearance and Odor: Amber liquid; mild petroleum odor
HMIS Rating: H - 1 F - 1 R - 0 P - Section VIII

Specific Gravity (H₂O=1): 0.89
Melting Point: N/AV
Evaporation Rate: N/D
(Butyl Acetate=1)

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): 392°F (Closed Cup) **NFPA Rating:** H - 0 F - 1 R - 0 P - Section VIII
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 a source of ignition. In enclosed spaces, heated vapors 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, 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 upon short-term exposure. Eye - Transient, mild irritation with short-term contact with liquid sprays or mists. Skin - Mild, transient skin irritation with short-term exposure. Ingestion - No significant adverse health effects are anticipated. **Chronic:** Prolonged or repeated skin contact can cause mild irritation and inflammation characterized by drying, cracking (dermatitis), or oil acne. Repeated or prolonged inhalation of petroleum-based mineral oil mists at concentrations above applicable workplace exposure levels can cause respiratory irritation and other pulmonary effects.

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

Signs and Symptoms of Exposure: Inhalation - N/A Eye - Stinging, watering, redness, and swelling. Skin - Contact with hot material may result in severe burns. Ingestion - Can cause a laxative effect.

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

Emergency and First Aid Procedures: Inhalation - In case of overexposure, move victim to fresh air. Eye - Remove contact lenses if any. 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 and shoes. Wipe off excess material from skin. Wash exposed skin area with mild soap and water. Seek medical attention if tissue appears damaged or irritation persists. If material is injected under the skin, into the muscle or into the bloodstream, seek medical attention immediately. Ingestion - DO NOT INDUCE VOMITING. 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.

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 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: User to determine if 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. State and/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 residue 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 temperatures above 120°F 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 gloves constructed of chemical-resistant materials such as neoprene or heavy nitrile rubber if frequent or prolonged contact is expected.

Eye Protection: Safety glasses w/side shields. Goggles and/or face shield if splashing/spraying is likely or material is heated above 125°F.

Other Protective Clothing or Equipment: Wear clean protective clothing (e.g., neoprene or Tyvek®) for prolonged or repeated contact. Launder contaminated 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