

Product: Quicksilver Towing Motor Oil (5W-40)

Product #: 92-883713Q 1

SECTION I - MANUFACTURER INFORMATION

Name: Mercury Marine	Emergency: 800-424-9300 (ChemTrec)
Address: W6250 W. Pioneer Rd.	Information: 920-929-5418
PO Box 1939	Date Prepared: 01-17-00
Fond du Lac WI 54936-1939	Revised:

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components*	OSHA PEL	ACGIH TLV	Other	% (Opt.)
Highly-Refined Petroleum Lubricant Oils (64741-88-4, 64741-89-5, 64742-65-0)	5mg/m ³	10mg/m ³		40-60
1-Decene homopolymer, hydrogenated (68037-01-4)	N/D	N/D		20-40
Proprietary Ingredients (Proprietary Mixture)	N/D	N/D		5-15
Zinc C1-C14alkyldithiophosphate (68649-42-3)	N/D	N/D		0-3

* Specific Chemical Identity, Common Name (CAS)

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: N/AV	Specific Gravity (H₂O=1): 0.87
Vapor Pressure (mmhg): < .01 @ 20°C	Melting Point: N/AV
Vapor Density (Air=1): > 1	Evaporation Rate: N/D
Solubility in Water: Insoluble in cold water	(Butyl Acetate=1)
Appearance and Odor: Dark amber to black liquid; petroleum odor	
HMIS Rating: H – 0 F – 1 R – 0 P – Section VIII	

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): > 392°F (Open Cup) **NFPA Rating:** H – 0 F – 1 R – 0 P – Section VIII

Flammable Limits: LEL – 1% approx. UEL - 7% approx.

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 which, if exposed to an ignition source, 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. Also, depending upon the conditions of use, low concentrations of hydrogen sulfide can be released.

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. Can cause a laxative effect. If aspirated into the lungs, liquid can cause severe lung damage or death. **Chronic:** Prolonged or repeated skin contact can cause mild irritation and inflammation characterized by drying, cracking (dermatitis), or oil acne. Inhalation of petroleum-based mineral oils can cause respiratory irritation and 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 - 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. Launder contaminated clothing before reuse. 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 of disposable PVC or nitrile gloves is recommended for prolonged or extensive contact.

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 chemical-resistant protective clothing (Tyvek®, nitrile, or neoprene) 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