



Prepared according to Global Harmonized System (GHS) standards

**SECTION 1**

**CHEMICAL PRODUCT IDENTIFICATION**

**Mercury Marine**  
**W6250 Pioneer Road**  
**Fond du Lac, WI 54936-1939**  
**Tel: 920-929-5000**

**Product Trade Name:** **Mercury Marine 25W40 Engine Oil**

**CAS Number:** Mixture

**Synonyms/Other:** Mercury 4-Stroke 25W40 Marine Engine Oil

**Part Number(s):** 8M0078639, 8M0078640, 858048K01, 858083K01, 8M0078628, 858048KC1, 858049K01, 858049KC1, 8M0078627, 8M0079072, 8M0020230, 8M0081914, 8M0081915, 8M0081916, 8M0081917

**Recommended Use:** 4 Stroke Engine Oil

**Restrictions on Use:** Not determined.

**Created Date:** 3/11/2014

**Preparation/Revision Date:** 4/30/2014

**Transportation Emergency Phone Number:** 1-800-424-9300 (CHEMTREC) or International +1(703) 527-3887

**MSDS CODE:** 003-1647KC

**SECTION 2**

**HAZARD IDENTIFICATION**

**Appearance:** Amber, viscous liquid

**Odor:** Mild, bland hydrocarbon odor.

**Classification:** Skin corrosion / irritation category 3

**Target Organs:** Skin

**Pictogram(s):** None required.

**Signal Word:** WARNING

**Hazard Statement:** H316 - Causes mild skin irritation

**Other Hazards:** Not determined.

**Prevention:** None required.

**Response:** P332+P313 - If skin irritation occurs: Get medical attention

**Storage Procedures:** None required.

**Disposal:** None required.

**Other:** See section 11 for complete health hazard information.

**SECTION 3**

**COMPOSITION OF INGREDIENTS**

Component	CAS Number	Percentage (by weight)
Zinc Dialkyldithiophosphate	68649-42-3	0.1-1.0%
Molybdenum Dialkyldithiocarbamate	Proprietary	<0.1%

**SECTION 4**

**FIRST AID MEASURES**

**Eye Contact:** If irritation occurs, cautiously rinse eyes with lukewarm, gently flowing water for 5 minutes, while holding the eyelids open. If eye irritation persists: Get medical advice/attention.



**Skin Contact:** Avoid direct contact. Wear chemical protective clothing, if necessary. Wash skin with lukewarm, gently flowing water and mild soap until product is removed. Call a doctor if you feel unwell. If skin irritation or rash occurs: Get medical advice/attention.

**Inhalation:** Get medical advice or attention if you feel unwell or are concerned.

**Ingestion:** If you feel unwell or concerned: Get medical advice/attention. Rinse mouth. Do NOT induce vomiting. If vomiting occurs naturally, lie on your side, in the recovery position.

**Other:** No additional information

## SECTION 5

## FIREFIGHTING MEASURES

**Flash Point:** 200°C minimum by Cleveland Open Cup Tester.

**Flammable limits:** Not determined.

**Extinguishing media:** Use dry chemical, alcohol foam, all purpose AFFF or carbon dioxide to extinguish fire.

**Special firefighting procedures:** DO NOT direct a solid stream of water or foam into hot, burning pools of liquid since this may cause frothing and increase fire intensity. Frothing can be violent and possibly endanger any firefighter standing too close to the burning liquid. Use water spray to cool fire exposed containers and structures until fire is out if it can be done with minimal risk. Avoid spreading burning material with water used for cooling purposes. Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA).

**Unusual fire & explosion hazards:** Dense smoke may be generated while burning. Toxic fumes, gases or vapors may evolve on burning. High temperatures may create heavy flammable vapors that may settle along ground level and low spots to create an invisible fire hazard.

**Byproducts of combustion:** Fires involving this product may release oxides of carbon, phosphorus, nitrogen and sulfur; reactive hydrocarbons and irritating vapors.

**Autoignition temperature:** Not determined.

**Explosion data:** Not determined. Care should always be exercised in dust/mist areas.

**Other:** Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

## SECTION 6

## ACCIDENTAL RELEASE MEASURES

**Spill control procedures (land):** Immediately turn off or isolate any source of ignition (pilot lights, electrical equipment, flames, heaters, etc.). Evacuate area and ventilate. Personnel wearing proper protective equipment should contain spill immediately with inert materials (sand, earth, chemical spill pads of cotton) by forming dikes. Dikes should be placed to contain spill in a manner that will prevent material from entering sewers and waterways. Large spill, once contained, may be picked up using explosion proof, non-sparking vacuum pumps, shovels, or buckets, and disposed of in suitable containers for disposal. If a large spill occurs notify appropriate authorities. In case of road spill or accident contact Chem-Trec (800-424-9300).

**Spill control procedures (water):** Try to contain large spills with floating booms to prevent spill from spreading. Remove from surface by skimming or with suitable adsorbents. If a large spill occurs notify appropriate authorities (normally the National Response Center or Coast Guard at 800-424-8802).

**Waste disposal method:** Do not empty into drains. All disposals must comply with federal, state, and local regulations. The material, if spilled or discarded may be a regulated waste. Refer to state and local regulations. Department of Transportation (DOT) regulations may apply for transporting this material when spilled. See Section 14.

**Other:** CAUTION - If spilled material is cleaned up using a regulated solvent, the resulting waste mixture will be regulated.

**SECTION 7****HANDLING AND STORAGE**

<b>Handling procedures:</b>	Keep containers closed when not in use. Do not transfer to unmarked containers. Empty containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld, or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse. Handling temperatures should not exceed 60°C (140°F) to minimize danger of burns. Open containers carefully in a well ventilated area or use appropriate respiratory protection. Wash thoroughly after handling.
<b>Storage procedures:</b>	Store containers away from heat, sparks, open flame, or oxidizing materials. Extended storage at excessive temperatures may produce odorous and toxic fumes from product decomposition.
<b>Additional information:</b>	No additional information.

**SECTION 8****EXPOSURE CONTROLS/PERSONAL PROTECTION**

<b>Personal protection:</b>	Applicable mainly to persons in repeated contact situations such as packaging of product, service/maintenance, and cleanup/spill control personnel.
<b>Respiratory protection:</b>	None required if ventilation is adequate. Otherwise a respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements must be followed. Where misting may occur, wear an MSHA/NIOSH approved (or equivalent) half-mask form dust/mist air purifying respirator.
<b>Eye protection:</b>	Eye protection is strongly recommended. Wear safety glasses with side shields or vented/splash proof goggles (ANSI Z87.1 or approved equivalent).
<b>Hand protection:</b>	Impervious, chemically resistant gloves such as neoprene or nitrile rubber to avoid skin sensitization and absorption.
<b>Other protection:</b>	Use of an apron and overboots of chemically impervious materials such as neoprene or nitrile rubber is recommended based on level of activity and exposure. If handling hot material use insulated protective equipment. Launder soiled clothes. Properly dispose of contaminated leather articles and other materials which cannot be decontaminated.
<b>Local control measures:</b>	Use adequate ventilation when working with material in an enclosed area. Mechanical methods such as fume hoods or area fans may be used to reduce localized vapor/mist areas. If vapor or mist is generated when the material handled, adequate ventilation in accordance with good engineering practice must be provided to maintain concentrations below the specified exposure. Eyewash stations and showers should be available in areas where this material is used and stored.
<b>Other:</b>	Consumption of food and drink should be avoided in work areas where product is present. Always wash hands and face with soap and water before eating, drinking or smoking.

**SECTION 9****PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	Amber, viscous liquid
<b>Odor:</b>	Mild, bland hydrocarbon odor.
<b>Odor threshold:</b>	Not determined.
<b>pH:</b>	Not applicable.
<b>Melting/Freezing point:</b>	Not determined.
<b>Initial boiling point:</b>	Not determined.
<b>Boiling range:</b>	Not determined.
<b>Flash point:</b>	200°C.
<b>Evaporation rate:</b>	Not determined.

<b>Flammability:</b>	Not determined.
<b>Upper flammable limit:</b>	Not determined.
<b>Lower flammable limit:</b>	Not determined.
<b>Vapor pressure:</b>	Negligible at ambient conditions.
<b>Vapor density:</b>	Not determined.
<b>Relative density:</b>	0.89 g/cm <sup>3</sup> at 20°C.
<b>Solubility:</b>	Negligible in water, miscible in most petroleum solvents.
<b>Partition Coefficient:</b>	Not determined.
<b>Auto-ignition temperature:</b>	Not determined.
<b>Decomposition temperature:</b>	Not determined.
<b>Viscosity:</b>	161 cSt at 40°C.
<b>Other</b>	Not applicable.

**SECTION10**
**STABILITYANDREACTIVITY**
**Reactivity Chemical**

<b>stability: Hazardous</b>	Material is chemically stable at room temperatures and pressure.
<b>polymerization: Conditions to avoid: Incompatibility with other materials:</b>	Will not occur.
<b>Decomposition products:</b>	Avoid high temperatures and product contamination.
<b>Other:</b>	Avoid contact with acids and oxidizing materials such as liquid chlorine or concentrated oxygen.
	Smoke, carbon monoxide and dioxide, and other aldehydes of incomplete combustion.
	Oxides of carbon, sulfur, zinc, phosphorus and nitrogen.
	Not applicable.

**SECTION11**
**TOXICOLOGICALINFORMATION**
**Acute toxicity (LD50) \*See note at the bottom of the section**

<b>Oral: Dermal:</b>	>5000 mg/kg
<b>Inhalation:</b>	>5000 mg/kg
<b>Skin irritation:</b>	>20.0 mg/l
<b>Eye irritation:</b>	Causes mild skin irritation
<b>Dermal sensitization:</b>	Non-irritant
<b>Respiratory sensitization:</b>	Not expected to have a sensitizing effect.
<b>Aspiration Hazard:</b>	Not expected to have a sensitizing effect.
<b>Chronic Toxicity</b>	Not applicable
<b>Mutagenicity:</b>	
<b>Carcinogenicity:</b>	Not suspected of causing genetic defects
<b>Reproductive toxicity:</b>	Not suspected of causing cancer.
<b>STOT-single exposure:</b>	Not expected to have adverse effects.
<b>STOT-repeated exposure:</b>	Not expected to have adverse effects.
<b>Other:</b>	Not expected to have adverse effects.

\*All data in this section is based off calculations from Part 3 of the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) utilizing information from the constituent components.

**SECTION12**
**ECOLOGICALINFORMATION**
**Environmental toxicity**

<b>Fish:</b>	> 100 mg/l.
<b>Invertebrates:</b>	> 100 mg/l.
<b>Aquatic plants:</b>	> 100 mg/l.
<b>Microorganism:</b>	> 100 mg/l.



**Persistence/Degradability:** This product is not expected to be readily biodegradable.  
**Bioaccumulation:** Not determined.  
**Mobility in soil:** Not determined.  
**Other:** All classifications are based on calculations in Part 4 of the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) utilizing information from the constituent components.

### SECTION13

### DISPOSALCONSIDERATIONS

**Waste disposal:** This product unadulterated by other materials can be classified as a non-hazardous waste. Depending on use, used product may be regulated. Dispose of in a licensed facility. Do not discharge product in to sewer system. Dispose of containers by crushing or puncturing, so as to prevent unauthorized use of used containers. Waste management should be in full compliance with federal, state, and local laws.

**Other** The transportation, storage, treatment and disposal of RCRA waste material must be conducted in compliance with 40 CFR 262, 263, 264, 268 and 270. Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate.

### SECTION14

### TRANSPORTINFORMATION

**Land Transport (DOT):** Not regulated for land transport.  
**Proper Shipping Name:** Not applicable.  
**Land Transport (TDG):** Not regulated for land transport.  
**Proper Shipping Name:** Not applicable.  
**Land Transport (IMDG):** Not regulated for sea transport.  
**Proper Shipping Name:** Not applicable.  
**Land Transport (IATA):** Not regulated for air transport.  
**Proper Shipping Name:** Not applicable.  
**Other:** Not applicable.

### SECTION15

### REGULATORYINFORMATION

#### Federal Regulation

**Clean water act/oil:** Not applicable.  
**TSCA:** All components of this material are listed in the U.S. TSCA Inventory.  
**Other TSCA:** Not applicable.  
**SARA title III:** Section 302/304 extremely hazardous substances:

None.  
Section 311, 312 hazard categorization:  
Acute (immediate health effects): YES  
Chronic (delayed health effects): NO  
Fire (hazard): NO  
Reactivity (hazard): NO  
Pressure ( sudden release hazard): NO

Section 313 toxic chemicals:  
Zinc Compounds: <1.0%  
**CERCLA:** For stationary/moving sources – reportable quantity (due to): Not hazardous due to the petroleum exclusion.

#### State Regulations

**Right-to-know** Not determined.



**Other:** A release of this product, as supplied, is exempt from reporting under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA). However, releases may be reportable to the Nation Response Center under the Clean Water Act, 33 U.S.C. 1321(b)(3) and (5) - see head of Section 15. Failure to report may result in substantial civil and criminal penalties.

Recommend contacting the local authorities in the event of any type of spill to determine local reporting requirements and also to aid in the cleanup.

**SECTION16 OTHERINFORMATION**

	<b>NFPA 704</b>	<b>NPCA-HMIS</b>	<b>KEY</b>
<b>HEALTH:</b>	1	1	0 = Minimal
<b>FIRE:</b>	1	1	1 = Slight
<b>REACTIVITY:</b>	0	0	2 = Moderate
<b>SPECIFIC HAZARD:</b>	None	N/A	3 = Serious
<b>PROTECTION INDEX:</b>	N/A	B	4 = Severe

Version: IV

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