

SAFETY DATA SHEET-Quicksilver PWC FS 2-Cycle Engine Oil

1. IDENTIFICATION

1.1. PRODUCT IDENTIFIER USED ON LABEL:

1.1.1. QUICKSILVER PWC FULL SYNTHETIC 2-CYCLE ENGINE OIL

1.2. OTHER MEANS OF IDENTIFICATION:

1.2.1. 2-CYCLE ENGINE OIL

92-8M0058907	92-8M0058908	92-858032Q01	92-858033Q01
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1.3. RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE;

1.3.1. PETROLEUM LUBRICATING OIL

1.3.2. NO OTHER USES RECOMMENDED

1.4. NAME, ADDRESS, AND TELEPHONE NUMBER OF THE CHEMICAL MANUFACTURER, IMPORTER, OR OTHER RESPONSIBLE PARTY:

1.4.1.

Mercury Marine

P.O. Box 1939
Fond du Lac, WI 54935
United States of America

Product Information

General Information: +1 (920) 929-5000

1.5. EMERGENCY PHONE NUMBER:

1.5.1.

Emergency Response

North America: CHEMTREC (800) 424-9300 after 5:00pm CST Or +17035273887

2. HAZARD(S) IDENTIFICATION

2.1.



SAFETY DATA SHEET-Quicksilver PWC FS 2-Cycle Engine Oil

2.2. WARNING

2.2.1. May cause eye irritation.

2.2.2. May cause skin irritation.

2.2.3. Combustible

2.3. Inhalation: Negligible hazard unless material is strongly heated.

2.4. Eye Contact: Direct contact may cause irritation, redness, tearing and blurred vision.

2.5. Skin Contact: Avoid prolonged skin contact. This product contains materials that may cause skin irritation. Prolonged or repeated contact may result in dermatitis (dryness, chapping and reddening of skin).

2.6. Ingestion: Do not ingest. Product is expected to be relatively non-toxic unless lung aspiration occurs. Aspiration hazard is not expected due to material's heavy viscosity. Should aspiration occur, may lead to chemical pneumonitis which is characterized by pulmonary edema and hemorrhage and may be fatal. Signs of lung involvement include increased respiratory rate, increased heart rate, and a bluish discoloration of the skin. Coughing, choking and gagging are often noted at the time of aspiration. This product has laxative properties and may result in abdominal cramps and diarrhea.

2.7. Other: Not applicable.

3. Composition/ information on ingredients

3.1.

COMPONENTS	CAS Number	Concentration (%)	OSHA TWA	OSHA STEL	ACGIH TWA	Skin
Hydrotreated light distillates	64742-47-8	20-50	Not Defined	Not Defined	Not Defined	NO
Proprietary additives	Mixture	--	Not Defined	Not Defined	Not Defined	NO

3.2. Comments:

3.2.1. TWA: Time Weighted Average is the employee's average airborne exposure in any 8-hour work shift of a 40-hour work week which shall not be exceeded.

3.2.2. STEL: Short Term Exposure Limit is the employee's 15-minute time weighted average exposure which shall not be exceeded at any time during a work day unless another time limit is specified.

4. FIRST AID MEASURES

4.1.

Inhalation:	If overcome by inhalation of hot vapors, remove to fresh air. Use oxygen if there is difficulty breathing or artificial respiration if breathing has stopped. Do not leave victim unattended. Seek immediate medical attention if necessary
Eye:	Check for and remove contact lenses. Flush eyes with cool, clean, low- pressure water for at least 15 minutes. Hold eyelids apart to ensure complete irrigation of the eye and eyelid

SAFETY DATA SHEET-Quicksilver PWC FS 2-Cycle Engine Oil

	tissue. If irritation persists seek medical attention.
Skin Contact:	Remove contaminated clothing. Wash contaminated area thoroughly with soap and water. If redness or irritation occurs, seek medical attention. Wash contaminated clothing before reuse.
Ingestion:	Do not induce vomiting unless directed by a physician. During vomiting there is a danger of aspirating liquid into lungs, causing serious damage and chemical pneumonitis. If spontaneous vomiting occurs keep head below hips to prevent aspiration and monitor for breathing difficulty. Gastric lavage should be performed only by qualified medical personnel. Keep affected person warm and at rest. Seek immediate medical attention.
Other	Not applicable

5. FIRE FIGHTING MEASURES

5.1. Flash point:

5.1.1. 65°C (ASTM D56- tag closed cup)

5.2. Flammable limits:

5.2.1. Not determined.

5.3. Extinguishing media:

5.3.1. Use water spray, dry chemical, alcohol foam, all-purpose AFFF or carbon dioxide to extinguish fire.

5.4. Special firefighting procedures:

5.4.1. Evacuate area and fight fire from a safe distance. If leak or spill has not ignited, ventilate area and use water spray to disperse gas or vapor and to protect personnel attempting to stop a leak.

5.4.2. Use water spray to cool adjacent structures and to protect personnel. Shut off source of flow if possible (safely). Stay away from storage tank ends. Withdraw immediately in case of rising sound from venting safety device or any discoloration of storage tank due to fire.

5.4.3. Fire fighters must wear MSHA/NIOSH approved positive pressure breathing apparatus (SCBA) with full face mask and full protective equipment.

5.5. Unusual fire & explosion hazards:

5.5.1. 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.

5.6. Byproducts of combustion:

5.6.1. Smoke, carbon monoxide and dioxide, and other aldehydes of incomplete combustion. Oxides of carbon, nitrogen, and sulfur; reactive hydrocarbons and irritating vapors.

5.7. Auto ignition temperature:

5.7.1. Not determined

5.8. Explosion data:

5.8.1. Not determined. Care should always be exercised in dust/mist areas.

SAFETY DATA SHEET-Quicksilver PWC FS 2-Cycle Engine Oil

5.9. Other:

5.9.1. When tested via ASTM D4206 this product does not sustain combustion.

6. ACCIDENTAL RELEASE MEASURES

6.1. Spill control procedures (land):

6.1.1. 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).

6.2. Spill control procedures (water):

6.2.1. 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).

6.3. Waste disposal method:

6.3.1. Most oil based products are incinerated, land-filled or reclaimed. 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.

6.4. Other:

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

7. HANDLING AND STORAGE

7.1. Handling procedures:

7.1.1. Keep containers closed when not in use. Do not transfer to unmarked containers. Fire extinguishers should be kept readily available. See NFPA 30 and OSHA 1910.106--Flammable and Combustible Liquids. 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.

7.2. Storage procedures:

7.2.1. Store containers away from heat, sparks, open flame, or oxidizing materials.

7.3. Additional information:

7.3.1. No additional information.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1. Personal protection:

8.1.1. Applicable mainly to persons in repeated contact situations such as packaging of product, service/maintenance, and cleanup/spill control personnel.

8.2. Respiratory protection:

8.2.1. None required if airborne concentrations are maintained below threshold limits listed on page one. 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.

8.3. Eye protection:

8.3.1. Eye protection is not required if material is used for the intended purpose. If material is handled such that it could be splashed into the eyes - or there is any concern, wear safety glasses with side shields or vented/splash proof goggles (ANSI Z87.1 or approved equivalent).

8.4. Hand protection:

8.4.1. Impervious gloves such as neoprene or nitrile rubber to avoid skin sensitization and absorption.

8.5. Other protection:

8.5.1. Use of an apron and over boots of chemically impervious materials such as neoprene or nitrile rubber is recommended to avoid skin sensitization and absorption. Launder soiled clothes. Properly dispose of contaminated leather articles and other materials which cannot be decontaminated.

8.6. Local control measures:

8.6.1. 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.

8.7. Other:

8.7.1. 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1.

SAFETY DATA SHEET-Quicksilver PWC FS 2-Cycle Engine Oil

9.1.1. Vapor Pressure:	Not determined
9.1.2. Specific Gravity :	Approximately 0.85 @ 15.6°C (60.0°F)
9.1.3. Solubility:	Negligible in water, miscible in most petroleum solvents.
9.1.4. Percent Volatile:	Not determined
9.1.5. Evaporation Rate (n-Butyl Acetate=1)	Not determined
9.1.6. Vapor Density (Air=1):	>1
9.1.7. Odor:	Mild, oily odor
9.1.8. Color:	Dark
9.1.9. Physical State:	Fluid
9.1.10. Viscosity:	Approximately 7.0 cSt @ 100°C (212°F)
9.1.11. Boiling Point:	Not determined
9.1.12. Pour/Freeze Point:	Not determined
9.1.13. Other:	Not applicable.

10. STABILITY AND REACTIVITY

10.1. Stability:

10.1.1. Stable at room temperatures and pressure.

10.2. Incompatibility:

10.2.1. Avoid contact with acids and oxidizing materials.

10.3. Hazardous Polymerization:

10.3.1. Will not occur.

10.4. Hazardous Decomposition Products:

10.4.1. Smoke, carbon monoxide and dioxide, and other aldehydes of incomplete combustion. Oxides of carbon, nitrogen and sulfur; reactive hydrocarbons and irritating vapors.

10.5. Conditions to Avoid:

10.5.1. Avoid high temperatures and product contamination.

10.6. Other:

10.6.1. Not applicable.

11. TOXICOLOGY INFORMATION

11.1. Oral toxicity:

11.1.1. Not determined

11.2. Dermal toxicity:

11.2.1. Not determined.

11.3. Inhalation toxicity:

11.3.1. On rare occasions, prolonged and repeated exposure to oil mist poses a risk of pulmonary disease such as chronic lung inflammation. This condition is usually asymptotic as a result of repeated small aspirations. Shortness of breath and cough are the most common symptoms. Based on data from similar materials.

11.4. Dermal sensitization:

11.4.1. Prolonged or repeated contact may make skin more sensitive to other skin sensitizers. Based on data from similar materials.

11.5. Chronic toxicity:

11.5.1. Not determined.

11.6. Carcinogenicity:

11.6.1. Not determined.

11.7. Reproductive toxicity:

11.7.1. Not determined.

11.8. Other:

11.8.1. These products contain petroleum base oils which may be refined by various processes including severe solvent extraction, severe hydrocracking, or severe hydro treating. None of the oils require a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as; carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B).

12. ECOLOGICAL INFORMATION

12.1. Environmental toxicity:

12.1.1. Not determined. However, this material may be toxic to aquatic organisms and should be kept out of sewage and drainage systems and all bodies of water.

12.2. Environmental Fate

12.2.1. Not determined.

12.3. Other:

12.3.1. Not applicable.

13. DISPOSAL CONSIDERATIONS

13.1. Waste Disposal:

SAFETY DATA SHEET-Quicksilver PWC FS 2-Cycle Engine Oil

13.1.1. Under RCRA it is the responsibility of the user of the product to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. This product unadulterated by other materials may be classified as a non-regulated waste in some areas - but still needs to be disposed of at approved facilities. Waste management should be in full compliance with federal, state, and local laws.

13.2. Disposal consideration:

13.2.1. Most used and non-use oils and solvents are incinerated by licensed burner facilities for heat value, or reclaimed by oil recycling services. Look in a local telephone directory or internet for headings under, 'Waste', 'Waste Services', 'Waste Disposal' for companies licensed to handle such material. Additional information can be obtained from local EPA, DNR, Sewer and Land-Fill sites. Unused, packaged fluids may be donated to other companies or charities (fluids MUST be unused).

13.3. Other:

13.3.1. The transportation, storage, treatment and disposal of RCRA waste material must be conducted in compliance with 40 CFR 262, 263, 264, 268 and 270. Disposal can only occur in properly permitted facilities. Check state and local regulations for any additional requirements as these may be more restrictive than federal laws and regulations. Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Disposal of this material must be conducted in compliance with all federal, state, and local regulations.

14. TRANSPORTATION INFORMATION

The shipping description below may not represent requirements for all modes of transportation, shipping methods or locations outside of the United States.

14.1. U.S. DOT Shipping description:

14.1.1. Combustible liquid, n.o.s.

14.2. U.S. DOT identification:

14.2.1. NA 1993

14.3. IMDG:

14.3.1. UN 1993

14.4. IATA:

14.4.1. UN 1993

14.5. Other:

14.5.1. Not regulated in packages of less than 199 gallons when offered for shipment by ground.

15. REGULATORY INFORMATION

15.1. TSCA Inventory

15.1.1. All components of this material are listed in the U.S. TSCA Inventory.

15.2. Other TSCA:

15.2.1. Not applicable.

15.3. Clean Water Act (CWA)

15.3.1. This material is classified as an oil under Section 311 of the Clean Water Act (CWA) and the Oil Pollution Act of 1990 (OPA). Discharges or spills which produce a visible sheen on waters of the United States, their

SAFETY DATA SHEET-Quicksilver PWC FS 2-Cycle Engine Oil

adjoining shorelines, or into conduits leading to surface waters must be reported to the EPA's National Response Center at (800) 424-8802.

15.4. SARA Title III:

15.4.1. Section 302/304 extremely hazardous substances:

15.4.1.1. There are no components present at or greater than the *de minimis* concentration.

15.4.2. Section 311, 312 hazard categories:

15.4.2.1. Acute (immediate health effects): NO

15.4.2.2. Chronic (delayed health effects): NO

15.4.2.3. Fire (hazard): NO

15.4.2.4. Reactivity (hazard): No

15.4.2.5. Pressure (sudden release hazard): NO

15.5. CERCLA

15.5.1. For stationary/moving sources-reportable quantity (due to): Exempt due to petroleum exclusion.

15.6. Other:

15.6.1. A release of this product, as supplied, is exempt from reporting under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) by the petroleum exclusion. 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.

15.6.2. 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.

16. OTHER INFORMATION

16.1.

HAZARD RANKINGS	
NFPA 704	
HEALTH HAZARD	1
FIRE HAZARD	2
INSTABILITY/REACTIVITY	0
Specific Hazard	None
Protection Index	N/A

16.2. **Date of preparation:** November 13, 2013

16.3. This product may be formulated with components purchased from other companies. In many instances, especially when proprietary or trade secret materials are used, Mercury Marine must rely on information provided by those materials manufacturers or distributors.

16.4. MANUFACTURERS DISCLAIMER:

16.4.1. ***The data presented herein is based upon tests and information, which we believe to be reliable. However, users should make their own investigations to determine the suitability of the information for their particular purpose***