

【 Material Safety Data Sheet—MSDS 】

1) PRODUCT AND COMPANY IDENTIFICATION

Product name	TC-W2 Two Stroke Outboard Engine Oil		
Common characters	liquid can be dissolved in oil		
Use	TC-W2 Two Stroke Outboard Engine Oil be used in the Outboard lubricating, cooling and airproofing etc.		
Producer	LUBRICANT COMPANY, SINOPEC CORP.	Service tel.	800-810-9886
Supplier	LUBRICANT COMPANY, SINOPEC CORP.	Hot line	400-810-9886
Website	www.sinolube.com		
Compile Date	2011-03-30		

2) COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	Ingredients	Content, Wt%
additive	mixture	<20
Base oil	mixture	80~100

3) HAZARDS IDENTIFICATION

Potential health effects	The International Agency for Research on Cancer (IARC) has determined there is no sufficient evidence for the carcinogenicity in experimental animals of used the oil. Under normal conditions of intended use, this product does not pose a risk to health. Excessive exposure may result in eyes, skin or respiratory irritation.
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4) FIRST AID MEASURES

Eye	Flush with water for 15 minutes. If irritation occurs, get medical attention.
Skin	Flush skin with water, and then wash with soap and water. Get medical attention.
Inhalation	Remove victim to fresh air and provide oxygen. Get medical attention.
Ingestion	Do not induce vomiting. Get medical attention.
Note to Physician	Cure according to symptom

5) FIRE FIGHTING MEASURES

Extinguishing media	Carbon dioxide, foam, dry chemical and water fog.
Extinguishing Method	spray
Combustion products	Fumes, smoke, carbon monoxide, sulfur oxides, aldehydes and other decomposition products, in the case of incomplete combustion.
Forbidden media	water

6) ACCIDENTAL RELEASE MEASURES

Protective Measures	Wear appropriate personal protective equipment when cleaning up spills.
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	FOR LARGE SPILLS: Remove with vacuum truck or pump to storage/salvage vessels.
Spill Management	FOR SMALL SPILLS: Soak up residue with an absorbent such as clay, sand or other suitable material. Place in non-leaking container and seal tightly for proper disposal.

7) HANDLING AND STORAGE

Storage	Do not store in open or unlabeled containers. Store in a cool, dry place with adequate ventilation. Keep away from open flames and high temperatures.
Empty container warning	Empty containers retain residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME.

8) EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure controls	Provide adequate ventilation to control airborne concentrations below the exposure guidelines/limits.
Respiratory Protection	If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, an approved respirator must be worn.
Eye Protection	Chemical Goggles, or Safety glasses with side shields
Hand Protection	Use protective gloves which is chemically resistant to this material
Personal protection	Use protective clothing and shoes which are chemically resistant to this material.
Note to sanitation	Wash hands with water and use cosmetic to protect

9) PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Brown and transparent liquid	Odor	No peculiar smell
Flash point (COC) °C (ISO 2719)	>70		

10) REACTIVITY AND STABILITY

Stability	Stable (at room temperature)
Conditions and materials to avoid	Extreme heat and high energy sources of ignition and strong oxidizers
Hazardous decomposition product	Product does not decompose at ambient temperatures.
Hazardous polymerization	Will not occur.

11) TOXICOLOGICAL INFORMATION

Acute Toxicity	ORAL TOXICITY (RATS): Practically low toxic (LD50: greater than 5000mg/kgBW). — -Based on testing of similar products and/or the components. INHALATION TOXICITY (RATS): Practically low toxic (LC50: greater than
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10000mg/m³). — -Based on testing of similar products and/or the components.

12) ECOLOGICAL INFORMATION

Ecological toxicity	Though long time infiltration, it may produce ecological toxicity
Mobility	When released into the environment, adsorption to sediment and soil will be the predominant behavior.
Persistence and degradability	This product is expected to be inherently biodegradable
Bioaccumulative potential:	Bioaccumulation is unlikely due to the very low water solubility of this product; therefore bioavailability to aquatic organisms is minimal.

13) DISPOSAL CONSIDERATIONS

Waste disposal	Product is suitable for burning in an enclosed, controlled burner for fuel value. In addition, the product is suitable for processing by an approved recycling facility or can be disposed of at an appropriate government waste disposal facility.
Note to release	Use protection things ,including protection gloves ,glasses and respirator, because explosion may happen heating in the container

14) TRANSPORT INFORMATION

Transport	The transport department work abiding by all the law ,rule and regulations
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15) REGULATORY INFORMATION

National regulation	Solid waste pollution prevention and cure law of The People ' s Republic of China
State Regulation	Water pollution standard of local government

16) OTHER INFORMATION

Other data	Get information and manual from the market department or technology department
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