

MATERIAL SAFETY DATA SHEET

Product: MC-Marine 2-Cycle Oil Alternative

MSDS No: 207-290

Shellbourne Fuels Inc.
238 Oakwood Crescent
Oakville, ON L6K 3M8
Emergency Phone: 416 714 3119 / 905 842 4177

Mariner's Choice International Inc.
4856 Victor St., Ste. A
Jacksonville, FL 32207
904 425 1234

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SECTION 1: PRODUCT IDENTIFICATION

Product Name: MC-Marine 2-Cycle Oil Alternative **Product Use:** Lubricating oil
Synonyms: Two-Cycle, Water Cooled Engine Oil

SECTION II: INFORMATION ON INGREDIENTS

Ingredients	CAS#	Wt%	WHIMIS Controlled
Hydrotreated Light Distillate	64742-47-8	0-40% (vol)	Yes
Solvent Naphtha, Medium Aliphatic	64742-88-7	0-40% (vol)	Yes
Solvent mixture contains proprietary non-metallic modifiers.			

SECTION III: HAZARDOUS IDENTIFICATION

Physical Description: Liquid. Honey colour. Hydrocarbon Odour.
Route of Entry: Exposure will most likely occur through skin contact or from inhalation of mechanically or thermally generated oil mists.
Hazards: Combustion liquid. Inhalation of oil mist or vapours from hot oil may cause irritation of the upper respiratory tract.
Handling: Avoid exposure to high temperatures and all sources of ignition. Avoid breathing vapours and mist of oil or grease. Wear suitable gloves and eye protection.

SECTION IV: FIRST AID MEASURES

Eye Contact: Flush eyes with water for at least 15 minutes while holding eyelids open. If irritation occurs and persists, obtain medical attention.
Skin Contact : Wipe excess from skin. Wash contaminated skin with mild soap and water for at least 15 minutes. If irritation occurs and persists, obtain medical attention.
Ingestion: Not normally required: obtain medical attention if large amounts have been ingested. Do not induce vomiting.
Inhalation: Remove victim from further exposure. Additional first aid treatment is not ordinarily required.
Notes to Physician: In general, lubricating oils have low oral toxicity. High pressure injection under the skin may have serious consequences and may require urgent treatment. The main hazard following accidental ingestion is aspiration of the liquid into the lungs producing chemical pneumonitis.

SECTION V: FIRE FIGHTING MEASURES

Extinguishment Media: Dry chemical. Carbon dioxide, Foam, Water Fog.
Firefighting Instructions: Caution – Combustible. Use water to cool fire exposed containers. Water may be used to flush spills away from exposure. Do not use direct stream of water as it will spread the fire. Water or foam may cause frothing. Do not enter confined fire space without adequate protective self-contained breathing apparatus.
Hazardous Combustion Products: CO, CO₂, and oxides of nitrogen produced upon combustion.

SECTION VI: ACCIDENTAL RELEASE MEASURES

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Issue warning "Combustible". Eliminate all ignition sources. Isolate hazard area and restrict access. Wear appropriate breathing apparatus and protective clothing. Stop leak only if safe to do so. Dike and contain land spills; contain spills to water by booming. For large spills remove by mechanical means and place in containers. Absorb residue or small spills with absorbent material and remove non-leaking containers for disposal. Flush area with water to remove trace residue. Dispose of recovered material as noted under Disposal Considerations. Notify appropriate environmental agency/s.

SECTION VII: HANDLING AND STORAGE

Handling: Combustible. Avoid excessive heat, formulation of oil mist, breathing of vapours and mist of hot oil, and prolonged or repeated contact with skin. Launder contaminated clothing prior to reuse. Use good personal hygiene.

Storage: Store in a cool, dry, well ventilated area, away from heat and ignition sources.

SECTION VIII: EXPOSURE CONTROL/PERSONAL PROTECTION

The following information, while appropriate for this product, is general in nature. The selection of personal protective equipment will vary depending on the conditions for use.

OCCUPATIONAL EXPOSURE LIMITS (Current ACGIH TLV/TWA unless otherwise noted):

Oil Mist (mineral): 5 mg/m³ (STEL: 10 mg/m³)
Standard solvent: 100 ppm
Mechanical Ventilation: Not normally required. Local ventilation is recommended if oil mist is present or if exposure limit is exceeded. Make up air should always be supplied to balance air exhausted (either generally or locally).

PERSONAL PROTECTIVE EQUIPMENT

Eye Protection: No special eye protection is routinely necessary. Wear safety glasses as appropriate.
Skin Protection: Not normally needed. Chemically resistant gloves should be worn for frequent or prolonged contact with this product.
Respiratory Protection: Not normally required under intended conditions of use. If airborne concentration is high (e.g. when product is heated), use a NIOSH-approved chemical cartridge respirator with Organic vapour cartridges in combination with a P95 particulate filter.

SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Appearance:	Honey colour
Odour:	Hydrocarbon odour
Odour Threshold:	Not available
Freezing/Pour Point:	Pour Point < -42°C
Density:	863.4 kg/m ³ @ 15°C
Vapour Density (Air=1):	Not available
Vapour Pressure (absolute):	<0.1 mm Hg @ 20°C
Specific Gravity (Water=1):	0.88
pH:	Not applicable
Flash Point:	Pensky-Martens CC >65°C
Viscosity:	6.1-7.1 cSt @ 100°C

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Evaporation Rate (n-BuAc=1):	Not available
Water Solubility:	Insoluble
Other Solvents:	Hydrocarbon Solvents

SECTION X: STABILITY AND REACTIVITY

Chemically Stable:	Yes
Hazardous Polymerization:	No
Sensitive to Mechanical Impact:	No
Sensitive to Static Discharge:	No
Incompatible Materials:	Avoid strong oxidizing agents.
Conditions of Reactivity:	Avoid excessive heat, formation of vapours or mists.

SECTION XI: TOXICOLOGICAL INFORMATION

Ingredient (for Product if not specified)
Hydrotreated Light Distillate
Solvent Naphtha, Medium Aliphatic

Routes of Exposure:	Exposure will most likely occur through skin contact or from inhalation of mechanically or thermally generated oil mists.
Formulation:	No data is specifically available for this product and therefore this toxicological information is based on data available for the ingredients.
Irritancy:	This product is not a primary skin irritant after exposure of short duration, is not a skin sensitizer and is not irritating to the eyes.
Chronic Effects:	Prolonged or repeated contact may cause various forms of dermatitis including folliculitis and oil acne. Long term intensive exposure to oil mist may cause benign lung fibrosis.

SECTION XII: ECOLOGICAL INFORMATION

Environmental:	Do not allow product or runoff from fire control to enter storm or sanitary sewers, lakes, streams, or public waterways. Block off drains and ditches. Provincial regulations require and Federal regulations may require that environmental and/or other agencies be notified of a spill incident. Spill area must be cleaned and restored to original condition or to the satisfaction of authorities.
Biodegradability:	Not readily biodegradable.

SECTION XIII: DISPOSAL CONSIDERATIONS

Waste management priorities are:

1. Recycle
2. Energy Recovery
3. Incineration
4. Disposal at licensed waste disposal facility

Do not attempt to combust waste on site. Incinerate at a licensed disposal site with approval of environmental authority. Landfill absorbed material in a government-approved site.

Dispose of in accordance with all applicable local, state/province, and federal regulations.

SECTION XIV: TRANSPORTATION

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This product is not regulated under the Canadian Transportation of Dangerous Goods Regulations for transport by road and rail.

SECTION XV: REGULATORY INFORMATION

Reportable Quantity: Not applicable
WHMIS Classification: B3 Combustible Liquid
DSL/NDSL Status: This product, or all components, are listed on the Domestic Substances List, as required under the Canadian Environmental Protection Act. This product and/or all components are listed on the U.S., EPA TSCA Inventory.
Other Regulatory Status: No Canadian federal standard; however, for general discharge guidance, federal installations limited to 15mg/L for total oil and greases. Provincial criteria are likely and should be requested when notifying provincial authorities.

SECTION XVI: OTHER INFORMATION

Label Statement: Combustible liquid.
Hazard Statement: Avoid exposure to high temperature and all sources of ignition. Avoid breathing vapours and mist of oil or greases. Wear suitable gloves and eye protection.
First Aid Statement: Wash contaminated skin with soap and water. Flush eyes with water. If overcome by vapours remove to fresh air. Do not induce vomiting. Obtain medical attention.

Date:	December 31, 2007	Prepared By:	Mariner's Choice Int'l Inc.	Telephone:	416 238 3510
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Disclaimer:

Information for this material safety data sheet was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond the control of supplier, it is assumed that users of this material; have been fully trained according to the mandatory requirements of WHMIS. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries for consequential damages, which may result from the use or reliance on any information contained in this form. If user requires independent information on ingredients in this or other material, we recommend contact with the Canadian Centre for Occupational Health and Safety (CCOHS) in Hamilton, Ontario (905-572-4400) or CSST on Montreal, Quebec (514-873-3990).