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## MATERIAL SAFETY DATA SHEET

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### Product Identification

General Product Name: Biodiesel

Product Description: Blend

Synonyms: Methyl Soyate, Rapeseed Methyl Ester, Methyl Tallowate, Fatty Acid Methyl Ester, Vegetable Oil Methyl Ester, Methyl Ester, Palm Kernel Oil Methyl Ester

CAS Numbers: Methyl Soyate: 67784-80-9  
Rapeseed Methyl Ester: 73891-99-3  
Methyl Tallowate: 61788-71-2  
Vegetable Fatty Acid Methyl Ester: 68990-52-3  
C14-18 & C16-18  
Unsaturated Alkylcarboxylic Acid Methyl Ester: 67762-26-9  
Palm Kernel Fatty Acid Methyl Ester: 91051-32-0  
Fatty acids, C8-C18, methyl ester: 68937-84-8  
Methyl Laurate: 111-82-0  
Methyl Myristate: 124-10-7  
Methyl Oleate: 112-62-9  
Methyl Palmitate: 112-39-0  
Methyl Caprate: 110-42-9  
Methyl Stearate: 112-61-8  
Methyl Caprylate: 111-11-5

#### Company Information

Organic Fuels, LTD

One Riverway, Suite 2053

Houston, TX 77056

USA

Product Information: (713) 979-2600 Fax: (713) 456-2151

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

This product may contain 0%-100% of the Product identified above. This product contains no hazardous materials.

### 3. HAZARDS IDENTIFICATION

#### Potential Health Effects:

EYE CONTACT:

May cause eye irritation.

INHALATION:

Negligible at ambient temperature. Vapors produced by heating, or finely misted materials may irritate the mucous membranes and cause dizziness, and nausea.

SKIN CONTACT:

Prolonged or repeated contact is not likely to cause significant skin irritation. Thermal burns are possible on contact with material at elevated temperatures.

INGESTION:

No hazards are anticipated from ingestion incidental to industrial exposure.

#### 4. FIRST AID MEASURES

**EYES:**

After initial flush, remove any contact lenses, and continue to flush eyes with water for at least 15 to 20 minutes. Seek medical attention if irritation develops or persists.

**INHALATION:**

Remove to fresh air. Seek medical attention if symptoms persist.

**SKIN:**

Wash affected areas of the body with soap and water.

**INGESTION:**

Give one or two glasses of water to drink. If gastro-intestinal symptoms develop, consult medical personnel. (Note: Never give anything by mouth to an unconscious person.)

#### 5. FIRE FIGHTING MEASURES

**Flammable Properties:**

Flash Point (Method Used): 130.0° C min (ASTM 93)

Auto-ignition Temperature: N/A

**Flammable Limits in Air:**

LEL: N/A

UEL: N/A

**Extinguishing Media:**

Dry chemical, foam, halon, carbon dioxide, water spray (fog). Note: Water stream may splash the burning liquid and spread fire.

**Special Fire Fighting Procedures:**

Use water spray to cool drums exposed to fire.

**Unusual Fire and explosion Hazards:**

Oil soaked rags can cause spontaneous combustion if not handled properly. Before disposal, wash rags with soap and water and dry in well ventilated area.

**Fire Fighting Instructions:**

Evacuate non-emergency personnel to a safe area. Firefighters should use self-contained breathing apparatus to avoid exposure to smoke and vapor.

#### 6. ACCIDENTAL RELEASE MEASURES SPILL CLEAN-UP PROCEDURES

Remove sources of ignition, contain spill to smallest area possible. Stop leak if possible. Pick up small spills with absorbent materials such as paper towels, "Oil Dry", sand or dirt.

Recover large spills for salvage or disposal. Wash hard surfaces with safety solvent or detergent to remove remaining oil film. Greasy nature will result in a slippery surface.

#### 7. HANDLING AND STORAGE

Store in closed containers at temperatures between 50°F and 120°F, and keep away from oxidizing agents, excessive heat, and ignition sources. Store and use in well ventilated areas. Do not store or use near heat, spark, or flame. Store out of the sun.

Do not puncture, drag, or slide container. Drum is not a pressure vessel; never use pressure to empty.

Only use hoses and gaskets that are made of fluorinated polyethylene, fluorinated polypropylene, Teflon, Teflon lined, or Viton<sup>®</sup>. Use of nitrile, natural rubber, or Buna-N type rubbers, which are commonly found in fuel systems, is only allowed for blends of petroleum diesel with concentrations of biodiesel below 20%.

For blends higher than 20% biodiesel only steel, mild steel, stainless steel, aluminum, fluorinated polyethylene fluorinated polypropylene and fiberglass vessels are recommended. Use of tanks or lines made of brass, bronze, and copper or lead, tin, and zinc (i.e. galvanized) may cause sediment formation and filter clogging and are not recommended.

## 8. EXPOSURE CONTROL /PERSONAL PROTECTION

### ENGINEERING CONTROLS:

Use only with adequate ventilation. Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.

### RESPIRATORY PROTECTION:

If vapors or mists are generated, wear a NIOSH approved organic vapor/mist respirator.

### PROTECTIVE CLOTHING:

Safety glasses, goggles, or face shield recommended to protect eyes from mists or splashing. PVC coated gloves recommended to prevent skin contact.

### OTHER PROTECTIVE MEASURES:

Employees must practice good personal hygiene, washing exposed areas of skin several times daily and laundering contaminated clothing before re-use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Pale Yellow Liquid with slight solvent smell
Odor:	Mild
Boiling Point:	>200°C
Vapor Pressure:	<2 mm Hg:
Vapor Density:	>1 (Air=1)
Solubility in Water:	Insoluble
Specific Gravity:	0.88 (Water=1)
% Volatiles:	<2% by Volume
Evaporation Rate:	<1 (Butyl Acetate=1)

## 10. STABILITY AND REACTIVITY

### GENERAL:

This product is stable and hazardous polymerization will not occur.

### INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:

Avoid contact with strong oxidizing agents

### HAZARDOUS DECOMPOSITION PRODUCT:

Combustion produces carbon monoxide and carbon dioxide along with

thick smoke.

## 11. DISPOSAL CONSIDERATIONS

### WASTE DISPOSAL:

Waste may be disposed of by a licensed waste disposal company. Contaminated absorbent material may be disposed of in an approved landfill. Follow local, state and federal disposal regulations.

## 12. TRANSPORT INFORMATION

### UN HAZARD CLASS: N/A

This product is not regulated by the U.S. department of Transportation (DOT)

NMFC (National Motor Freight Classification):

PROPER SHIPPING NAME: Fatty acid ester

IDENTIFICATION NUMBER: 144920

SHIPPING CLASSIFICATION: 65

## 13. REGULATORY INFORMATION:

### OSHA STATUS:

This product is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200. However, thermal processing and decomposition fumes from this product may be hazardous as noted in Sections 2 and 3.

### TSCA STATUS:

This product is listed on TSCA.

CERCLA (Comprehensive Response Compensation and Liability Act):

NOT reportable.

SARA TITLE III (Superfund Amendments and Reauthorization Act):

Not Extremely Hazardous Substances under Section 312

Non-hazardous under Section 311/312

Not a Toxic Chemical under Section 313

### RCRA STATUS:

If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste, (40 CFR 261.20-24)

### CALIFORNIA PROPOSITION 65:

The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986. This product contains no chemicals known to the state of California to cause cancer.

## 14. OTHER INFORMATION:

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to the best of the company's knowledge and believed accurate and

reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.