					WEST COAST COLLABORATIVE Public-private partnership to reduce diesel emissions
Bridging the Biodiesel Gap				Procedure #	
Material Safety Data Sheet (MSDS)					

Material Safety Data Sheet (MSDS) Biodiesel (B100)

1. CHEMICAL PRODUCT

General Product Name: **Biodiesel (B100) / FAME**
 Synonyms: Methyl Soyate, Rapeseed Methyl Ester (RME), Methyl Tallowate
 Product Description: Methyl esters from lipid sources
 CAS Number: Methyl Soyate: 67784-80-9; RME: 73891-99-3;
 Methyl Tallowate: 61788-71-2

2. COMPOSITION / INFORMATION ON INGREDIENTS

This product contains no hazardous materials.

3. HAZARDS IDENTIFICATION

Potential Health Effects:

INHALATION: Negligible, unless heated to produce vapors. Vapors or finely misted materials may irritate the mucous membranes and cause irritation, dizziness, and nausea. Remove to fresh air.

EYE CONTACT: May cause irritation. Irrigate eye with water for at least 15 to 20 minutes. Seek medical attention if symptoms persist.

SKIN CONTACT: Prolonged or repeated contact is not likely to cause significant skin irritation. Material is sometimes encountered at elevated temperatures. Thermal burns are possible.

INGESTION: No hazards anticipated from ingestion incidental to industrial exposure.

4. FIRST AID MEASURES

EYES: Irrigate eyes with a heavy stream of water for at least 15 to 20 minutes.


SKIN: Wash exposed areas of the body with soap and water.

INHALATION: Remove from area of exposure; seek medical attention if symptoms persist.

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

5. FIRE FIGHTING MEASURES

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

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Flammability Limits: None known

EXTINGUISHING MEDIA:

Dry chemical, foam, halon, CO₂, water spray (fog). 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. Firefighters should use a 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 between 50°F and 120°F.
 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 sun.
 Do not puncture, drag, or slide this container.
 Drum is not a pressure vessel; never use pressure to empty.

8. EXPOSURE CONTROL/PERSONAL PROTECTION


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

PROTECTIVE CLOTHING: Safety glasses, goggles, or face shield are recommended to protect eyes from mists or splashing. PVC coated gloves are 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

Boiling Point, 760 mm Hg:>200°C Volatiles, % by Volume: <2
 Specific Gravity (H₂O=1): 0.88 Solubility in H₂O, % by Volume: Insoluble
 Vapor Pressure, mm Hg: <2 Evaporation Rate, Butyl Acetate=1: <1
 Vapor Density, Air=1:>1
 Appearance and Odor: pale yellow liquid, mild odor

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10. STABILITY AND REACTIVITY

GENERAL: This product is stable and hazardous polymerization will not occur.

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID: Strong oxidizing agents

HAZARDOUS DECOMPOSITION PRODUCTS: Combustion produces carbon monoxide, 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

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 (*Toxic Substance Control Act*): This product is listed on TSCA.

CERCLA (*Comprehensive Response Compensation and Liability Act*): NOT reportable.

SARA TITLE III (*Superfund Amendments and Reauthorization Act*):


Section 312 Extremely Hazardous Substances: None

Section 311/312 Hazard Categories: Non-hazardous under Section 311/312

Section 313 Toxic Chemicals: None

RCRA STATUS (*Resource Conservation and Recovery Act*)

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)

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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, expressed 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 its use. It is the user's responsibility to satisfy him or herself as to the suitability and completeness of such information for his own particular use.

Online Resource: www.biodiesel.org/pdf_files/fuelfactsheets/MSDS.PDF