

Safety Data Sheet

Section 1: Identification

Biodiesel (Methyl Esters from Lipid sources, Methyl Soyate)

CAS No.: 67784-80-9

Manufactured by: Owensboro Grain Biodiesel 1145 Ewing Road
P.O. Box 1787 Owensboro, KY 42302
(270) 926-2032

Emergency Health and Safety Number: 270-686-6628

Section 2: Hazard Identification

Classification: Health hazard

Label elements:

SIGNAL WORD: Warning

Hazard Statement:

Inhalation effects are 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 minutes. Seek medical attention if symptoms persist. Repeated skin contact is not likely to cause significant skin irritation. Product is sometimes encountered at elevated temperatures. Thermal burns are possible. Surfaces coated with product are slippery.

Precautionary Statement:

Avoid breathing oil mist. Excessive inhalation may affect nose, throat and lungs. Oil mist may ignite if aspirated in air and may create a flash fire hazard. Avoid ignition sources.

Emergency Overview:

Inhalation of oil mist may affect nose, throat and lungs. OSHA PEL 15mg/m³. Oil temperature may be elevated during/after processing. Avoid contact with hot oil to prevent burns.

Fire Hazard:

Soy biodiesel is generally considered non-flammable, however oil mist could be generated by leaks in pressurized systems (e.g. pumps, piping) and present a fire hazard if aspirated in the air with a source of ignition present. Non-sparking tools should be used under misting conditions.

A risk of auto ignition/spontaneous combustion under high temperature, closed conditions if product is absorbed on various fiber matrices and oxygen is present (e.g. oily rags and sorbent materials).

Section 3: Composition Information on Ingredients

Soy-derived biodiesel which may be blended with petroleum diesel fuel.

Section 4: First Aid Measures

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

Ingestion: If swallowed, give several glasses of water to drink. Never give anything by mouth to an unconscious person. If gastro-intestinal symptoms develop, consult medical personnel.

Skin Contact: Wash affected skin with soap and water.

Eye Contact: Irrigate eyes with water for at least 15 minutes. Seek medical attention as needed.

Section 5: Fire Fighting Measures

Hazardous Combustion Products: Oxides of Carbon (CO, CO₂)

Special Fire Fighting Procedures: Class B fire. Extinguish with carbon dioxide, dry chemical powder or foam. Application of water to burning oil can cause splashing and spread the fire. Product will float on water.

Unusual Fire and Explosion Hazard: Oily rags can cause spontaneous combustion if not handled properly. Before disposal, wash rags with soap and water and dry in a well ventilated area. Firefighters should use self-contained breathing apparatus to avoid exposure to smoke and vapor.

Oil mist could be generated by leaks and present a fire hazard if aspirated in the air with a source of ignition present.

Section 6: Accidental Release Measures

Remove sources of ignition; contain spill to smallest area possible. Stop leak if possible.

Small spills may be cleaned up with absorbent materials. Store used sorbents in tight metal containers to limit potential for spontaneous combustion. Larger releases should be contained for recovery or disposal. Wash hard surfaces with safety solvent or detergent to remove oil film.

Oily material will cause slippery surfaces.

Avoid dispersal of oil mist in air to avoid ignition. Non-sparking tools should be used under misting conditions.

Section 7: Handling and Storage

Store in closed containers. Keep away from oxidizing agents, excessive heat and ignition sources. Avoid misting of oil in air and exposure to potential ignition sources. Remove product from area/processing equipment prior to using any heat producing equipment such as arc welders, cutting torches and spark/heat producing tools such as portable surface grinders.

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 containers. Drum is not a pressure vessel; never use pressure to empty.

A risk of auto ignition/spontaneous combustion under high temperature, closed conditions if product is absorbed on various fiber matrices and oxygen is present (e.g. oily rags).

Section 8: Exposure Control/Personal Protection

Respiratory Protection: If vapors or mists are generated, wear an approved NIOSH organic vapor/mist respirator for oil mist concentrations above the ACGIH TLV/ OSHA PELs. May cause irritation of the nasal membranes or the upper respiratory tract.

Ventilation: Local exhaust if needed.

Mechanical (General): if needed.

Protective Gloves: PVC-coated gloves recommended to prevent skin contact

Eye Protection: Safety glasses/goggles or face shield recommended.

Work/Hygienic Practices: Good personal hygiene practices should be followed. Wash hands and face before eating, drinking, etc.

Avoid misting of oil and control ignition sources. Where appropriate, employ grounding, venting and explosion relief provisions in accordance with accepted engineering practices in processes capable of generating static electricity. Refer to appropriate OSHA, NFPA and applicable standards.

Section 9: Physical and Chemical Properties

Flashpoint (Method): 130 C (ASTM 93)

Flammable Limits: LEL: Unknown UEL: Unknown

Auto-ignition Temperature: Unknown

Appearance: Pale yellow liquid with mild odor

Evaporation rate: Less than 1

Specific Gravity: 0.88

Solubility in Water: Not soluble; biodiesel will float on water

Section 10: Stability and Reactivity

Stability: Stable Conditions to Avoid: N/A

Incompatibility (Materials to avoid): Strong oxidizing agents

Hazardous Decomposition or Byproducts: Combustion produces carbon monoxide, carbon dioxide and thick smoke.

Hazardous Polymerization: Will not occur

Section 11: Toxicological Information

Routes of Entry: Inhalation: Yes (mist) Skin: Yes Eyes: Yes Ingestion: Unlikely
Carcinogenicity: No OSHA Regulated: No

Acute: May be irritant to skin and eyes, excessive inhalation of mist may affect nose, throat and lungs.

Chronic: Repeated and prolonged inhalation of oil mist may affect the respiratory system. Smokers have an increased risk of respiratory effects.

Signs and Symptoms of Exposure: Irritation to the skin, eyes, nose or throat may occur. Some people may occasionally experience coughing.

Medical Conditions Generally Aggravated by Exposure: Allergies and respiratory ailments.

Section 12: Ecological Information (Non-mandatory)

Section 13: Disposal Considerations (Non-mandatory)

Section 14: Transport Information (Non-mandatory)

UN HAZARD CLASS: N/A

Section 15: Regulatory Information (Non-mandatory)

OSHA: Thermal processing and decomposition fumes may be hazardous as noted in Sections 2 and 3.

TSCA: This product is listed on TSCA.

CERCLA: Not reportable.

SARA TITLE III

Section 312 Extremely Hazardous Substances:	None.
Section 311/312 Hazard Categories:	Non-hazardous.
Section 313 Toxic Chemicals:	None.

RCRA: If discarded in virgin 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 hazardous waste.

CALIFORNIA PROPOSITION 65: This product contains no chemicals known to the state of California to cause cancer.

Section 16: Other Information

The information on this SDS is believed to be accurate. However, each purchaser should make its own determination about the suitability of the product for its purposes. The manufacturer assumes no responsibility for any risk or liability arising from the use of this information or the product.

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