

Section 1 – Chemical Product and Company Identification

Product identifier: Biodiesel (B99.9)

Other means of identification

Synonyms: Methyl esters, biodiesel, methyl soyate, soy methyl esters (SME), rapeseed methyl esters (RME), canola methyl esters (CME), corn oil methyl esters, methyl tallowate, fatty acid methyl esters, fatty acid alkyl esters.

Recommended use: Fuel, solvent, cleaning agent, heating oil, blend stock

Restrictions on use: Not intended for direct human consumption

Supplier information: REG Marketing & Logistics Group, LLC
416 S. Bell Ave
Ames, IA 50010
(888) 734-8686

Emergency phone number: Chemtrec: (800) 424-9300

Section 2 – Hazard(s) Identification

Classification (in accordance with 29 CFR 1910.1200)

Hazard Class	Hazard Category	Route of Exposure
Skin Irritation	Category 2 (irritation)	Absorption
Eye Irritation	Category 2B (mildly irritating)	Absorption

Signal word: **WARNING**

Pictograms:



Hazard Statements: Causes skin and eye irritation

Hazards not otherwise specified: None identified

Precautionary statements

Prevention: Wear appropriate protective gloves, protective garments, and eye protection. Avoid breathing mists and sprays.

Response: If on skin, wash thoroughly with soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs, get medical advice. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists: Get medical attention.

Storage: Store in cool tightly closed container

Disposal: Dispose of contents/container in accordance with local, state, and federal regulations.

Section 3 – Composition / Information on Ingredients

Chemical Name	Common Name & Synonyms	CAS number	% of product
Unsaturated methyl esters	Methyl Esters, biodiesel	67762-26-9	99.9%
Fuels, Diesel #2	Diesel Fuel	68476-34-6	0.1%

Section 4 – First Aid Measures

First aid measures for exposure

Inhalation:	Move to fresh air
Eyes:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
Skin:	Wash affected skin with soap and water. Take off contaminated clothing and wash it before reuse.
Ingestion:	Rinse mouth out with water. If feeling unwell, seek medical attention.

Most important symptoms / effects

Acute:	May cause eye and skin irritation.
Delayed / Chronic:	No information available

Indication of immediate medical attention and special treatment needed, if necessary: No special treatment identified. Treat symptomatically and supportively.

Section 5 – Fire Fighting Measures

Suitable extinguishing media:	Water mist, firefighting foam, dry chemical, carbon dioxide, or clean extinguishing agents (such as Halon or Halotron)
Unsuitable extinguishing media:	Do not use a solid water stream, as it may scatter and spread the fire
Specific hazards arising from the chemical:	May burn if heated, but does not readily ignite. Materials saturated with this product, such as oily rags, used oil dri, soaked insulation pads, etc., may spontaneously combust due to product decomposition in the presence of oxygen. Place all such materials into appropriate oily waste containers (such as metal cans with metal lids or oily waste dumpsters with lids), and dispose of according to local, state, and federal regulations.
Hazardous combustion products include:	Carbon monoxide, carbon dioxide, nitrogen oxides, and hydrocarbons



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Protective equipment and precautions for firefighters:

Incipient stage fires may be controlled with a portable fire extinguisher. For fires beyond the incipient stage, evacuate all unnecessary personnel. Emergency responders in the immediate area should wear standard firefighting protective equipment, including self-contained breathing apparatus (SCBA) and full bunker gear. In case of external fires in proximity to storage containers, use water spray to keep containers cool, if it can be done safely. Prevent runoff from entering streams, sewers, storm drains, or drinking water supply.

Section 6 – Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures:

Keep all sources of ignition away from spill. Wear protective garments, impervious oil resistant boots, protective chemical-resistant gloves, and safety glasses. If product has been heated, wear appropriate thermal and chemical protective equipment. If splash is a risk, wear splash resistant goggles and face shield. Shut off source of spill, if safe to do so. Contain spill to the smallest area possible. Isolate immediate hazard area and remove all nonessential personnel. Prevent spilled product from entering streams, sewers, storm drains, unauthorized treatment drainage systems, and natural waterways. Place dikes far ahead of the spill for later recovery and disposal. Immediate cleanup of any spill is recommended. **If material spills into or upon any navigable waters and causes a film or sheen on the surface of the water, immediately notify the National Response Center at 1-800-424-8802.**

Methods for containment and clean-up

Small spill / incidental release:

Small spills can be cleaned up with a properly rated vacuum system, absorbent inert media (oil dri, sand, or earth), or absorbent pads. Use soapy water or degreaser to remove oily residue from the affected area, then rinse area with water. Place saturated materials in an appropriate oily waste container (metal can with a metal lid or an enclosed oily waste dumpster), and dispose of according to local, state, and federal regulations.

Large spill / release:

A spill remediation contractor with oil booms and skimmers may be needed for larger spills or spills that come into contact with a waterway or sensitive wetland. Recover as much product as possible by pumping it into totes or similar intermediate containers. Remove any remaining product with a properly rated vacuum system, absorbent inert media (oil dri, sand, or earth), or absorbent pads. Use soapy water or degreaser to remove oily residue from the affected area, then rinse area with water. Place saturated materials in an appropriate oily waste container (metal can with a metal lid or an enclosed oily waste dumpster), and dispose of according to local, state, and federal regulations.

Other information:

Materials saturated with this product, such as oily rags, used oil dri, soaked insulation pads, etc., may spontaneously combust due to product decomposition in the presence of oxygen. Place all such materials into appropriate oily waste containers (such as metal cans with metal lids or oily waste dumpsters with lids), and dispose of according to local, state, and federal regulations.

Section 7 – Handling and Storage

Precautions for safe handling:

When transferring product, use pipes, hoses, and tanks that are electrically bonded and grounded to prevent the accumulation of static electricity.

Conditions for safe storage, including incompatibilities:

Keep away from strong oxidizing agents, strong reducing agents, strong acids, and strong bases. Store the product in a cool dry place, in a tightly closed container. Storage tanks should have an appropriate ventilation and pressure relief system.



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Section 8 – Exposure Controls / Personal Protection

Precautions for safe handling: When transferring product, use pipes, hoses, and tanks that are electrically bonded and grounded to prevent the accumulation of static electricity.

Component exposure limits: There were no OSHA PELs or ACGIH TLVs for this product.

Appropriate engineering controls: Keep product enclosed in primary containment (hoses, pipes, tanks, etc.) to avoid contact with skin. Handle in accordance with good industrial hygiene and safety practices.

Personal protective equipment

Eyes / face: Wear safety glasses. If splash potential exists, use splash resistant goggles and a face shield.

Skin: Wear disposable nitrile or other similar chemical-resistant gloves for incidental contact. For more substantial contact, wear thicker nitrile or other similar chemical-resistant gloves. Wear protective garments, such as a chemical apron, chemical resistant coveralls, or chemical resistant coat and pants, along with impervious oil-resistant boots. Remove soaked protective equipment, decontaminate with soapy water, and rinse thoroughly before reuse. **Note:** product will cause natural rubbers to degrade at a very rapid rate. Such protective equipment will need to be carefully inspected after decontamination to see if it is still in serviceable condition. Any defective or worn out equipment should be immediately discarded.

Respiratory: No exposure limits are available, but appropriate organic vapor or supplied air respiratory protection may be worn if irritation or discomfort is experienced. Respiratory protection must be provided and used in accordance with all local, state, and federal regulations.

Section 9 – Physical and Chemical Properties

Physical State:	Liquid	Color:	Water white to pale yellow to brown if undyed
Odor:	Mild oily or animal fat odor	Odor Threshold:	No available information
pH:	Not applicable	Melting/Freezing Point:	-1°C to 20°C / 30°F to 68°F
Boiling Point/Range:	>280°C / 536°F (at 1 atm)	Flash Point:	>110°C / >230°F (ASTM D93)
Evaporation Rate:	No available information	Flammability (solid/liq):	No available information
LFL:	No available information	UFL:	No available information
Vapor Pressure:	No available information	Vapor Density:	No available information
Relative Density:	0.87-0.89 @ 25°C	VOC:	No available information
Solubility (H2O):	Negligible	Solubility (other):	No available information
Auto Ignition Temp.:	No available information	Decomposition Temp.:	No available information
Viscosity:	3.8-5.0 cSt @ 40°C	Partition coefficient (n-octanol/water) :	No available information

Section 10 – Chemical Stability and Reactivity Information

Reactivity: When handled and stored appropriately, no dangerous reactions are known

Chemical stability: Stable in closed containers at room temperature under normal storage and handling conditions



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Possibility of hazardous reactions:	When handled and stored appropriately, no dangerous reactions are known See Sections 5 and 6 regarding spontaneous combustion of product-saturated absorbent materials.
Conditions to avoid:	Ignition sources, accumulation of static electricity, heating product to its flash point, or allowing the product to cool below its melting point (otherwise it may solidify and not be transferable until it is reheated).
Incompatible materials:	Keep away from strong oxidizing agents, strong reducing agents, strong acids, and strong bases.
Hazardous decomposition products:	Carbon oxides, hydrogen sulfide, nitrogen oxides, and hydrocarbons

Section 11 – Toxicological Information

Likely routes of exposure:	Absorption, ingestion, and inhalation
Symptoms	
Inhalation:	Coughing or irritation
Eye contact:	Redness or irritation and tearing
Skin contact:	Redness or irritation
Ingestion:	Nausea, vomiting, or feeling unwell
Acute toxicity	
Oral:	LD50 >17,500mg/kg (rat) estimated
Dermal:	LC50 >2000mg/kg (rat)
Inhalation:	No available information
Skin corrosion / irritation:	(rat) after 24 hr exposure, some irritation which subsided within 12 – 14 days (human) after 24 hr exposure, some minor irritation (less than that of a 4% soap & water solution)
Serious eye damage / eye irritation:	Industrial experience has shown that product in the eyes can cause redness and irritation which subsides within 7 days.
Sensitization (<i>Respiratory or Skin</i>):	<i>No available information</i>
Germ cell mutagenicity:	<i>No available information</i>
Carcinogenicity:	This product is not listed as a carcinogen by IARC, NTP, or OSHA
Component carcinogenicity:	Fuels, Diesel (0.1% by vol.) ACGIH Group A3: Confirmed animal carcinogen with unknown relevance to humans GHS / CLP: Carcinogenicity Category 2
Reproductive / developmental toxicity:	<i>No available information</i>



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Specific target organ toxicity

Single exposure: *No available information*

Repeated exposure: *No available information*

Aspiration hazard: *No available information*

Section 12 – Ecological Information

Acute ecotoxicity - short-term exposure

Fish: 48hr LC50 (rainbow trout) 2.8-4.6 ug/L
96hr LC50 (bluegill) >1000mg/L

Invertebrates: LC-50 (Daphnia Manga) 23 ppm

Long Term Exposure (Fish & algae): NOEL >100mg/L (fish, invertebrate, and algae)

Persistence and degradability: Product is biodegradable in aerobic conditions (90% biodegraded within 23 days)

Bioaccumulative potential: There is a potential for bioaccumulation of this product

Mobility in soil: *No available information*

Other adverse effects: See section 5 & 6 regarding spontaneous combustion of materials that are soaked in this product

Section 13 – Disposal Considerations

Disposal (*waste / unwanted product*): This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate local, state, regional, or federal regulations for additional requirements.

Disposal (*containers with residue*): Dispose of all containers with residue according to local, state, regional, and federal regulations.

Section 14 – Transport Information

UN number: Not Regulated as a hazardous material

UN proper shipping name: Not Regulated as a hazardous material

Transport hazard class: Not Regulated as a hazardous material

Packing group: Not Regulated as a hazardous material

Marine pollutant: Yes No



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Transport in bulk requirements: Not Regulated as a hazardous material

Special transportation precautions: Not Regulated as a hazardous material

Section 15 – Regulatory Information

Inventory Listings

TSCA Listed Exempt
 DSL Listed Exempt

U.S. Federal Regulations

SARA 313: Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains the following chemical(s) subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

None

SARA 311/312 Hazard Categories:

Acute Health Hazard Yes No
 Chronic Health Hazard Yes No
 Fire Hazard Yes No
 Sudden Release of Pressure Hazard Yes No
 Reactive Hazard Yes No

Clean Water Act: This product contains the following chemical(s) regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

None

CERCLA: This material, as supplied, contains the following chemical(s) regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

None

U.S. State Regulations

California Proposition 65:

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations:

Pennsylvania

US Pennsylvania Worker and Community Right-to-know Law (34 PA. Code Chap. 301-323)

Component

CAS Number

Fuels, diesel, No 2

68476-34-8

New Jersey

US New Jersey Worker and Community Right-to-know Act (New Jersey Statute Annotated Section 34:5A-5)

Component

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Section 16 – Other Information

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NFPA 704 Ratings	
Health Hazard:	1
Flammability:	1
Instability:	0
Other:	-

Revision Note: Updated format and information to meet the requirements of the Global Harmonization Standard

WARNING: POTENTIALLY HAZARDOUS MATERIAL. IMPROPER USE OR MISHANDLING CAN RESULT IN SERIOUS INJURY OR DEATH. THIS PRODUCT CONTAINS SUBSTANCES WHICH, IF MODIFIED, MAY BE FLAMABLE AND MAY BURN OR EXPLODE IF HEATED OR EXPOSED TO FLAME OR OTHER IGNITION SOURCE OR WATER, OXIDIZING AGENTS, ACIDS OR OTHER CHEMICALS. AVOID INGESTION, INHALATION AND CONTACT WITH SKIN AND EYES.

Disclaimer:

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of SDS