

# MATERIAL SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

TEXON LP  
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Information: (281) 531-8400  
CHEMTREC: (800) 424-9300

**Product Name:** Biodiesel (B100)

Date Prepared: 07/08/2011

**Synonyms:** Methyl Soyate, Rapeseed Methyl Ester (RME), Soy Methyl Esters, Methyl Tallowate, Fatty Acid Methyl Esters, Fatty Acid Alkyl Esters, Virgin Biodiesel, Soy Biodiesel, Rapeseed Biodiesel, Tallow Biodiesel, Canola Biodiesel

**Product Description:** Methyl esters from a complex mixture of lipid sources.

## 2. COMPOSITION & INFORMATION ON INGREDIENTS

Product	CAS No.	Wt%	Occupational Exposure Limits			Units
			OSHA PEL*	ACGIH TLV*	NIOSH REL**	
Biodiesel	67784-80-9	100	N/A	N/A	N/A	
<b>Component(s)</b>						
Soybean Oil Methyl Esters	67784-80-9	0-100	N/A	N/A	N/A	
Rape Oil Methyl Esters	73891-99-3	0-100	N/A	N/A	N/A	
Tallow Methyl Esters	61788-61-2	0-100	N/A	N/A	N/A	
Biodiesel (Canola Derived)	129828-16-6	0-100	N/A	N/A	N/A	
Biodiesel (Fatty Acid, Methyl Ester)	68937-84-8	0-100	N/A	N/A	N/A	

Key: \* = 8-Hr. TWA unless otherwise specified.  
\*\* = 10-Hr. TWA unless otherwise specified.  
N/A = Not Available

## 3. HAZARD IDENTIFICATION

**Note:** This product has not been tested by Texon LP to determine its specific health hazards. Therefore, the information provided in this section includes health hazard information on the product components.

<b>Carcinogenicity:</b>	<b>NTP</b>	<b>IARC</b>	<b>OSHA</b>
		<b>Monographs</b>	<b>Regulated</b>
Biodiesel	No	No	No
Soybean Oil Methyl Esters	No	No	No
Tallow Methyl Esters	No	No	No
Rape Oil Methyl Esters	No	No	No
Biodiesel (Canola Derived)	No	No	No
Biodiesel (Fatty Acid, Methyl Ester)	No	No	No

#### **Potential Health Effects From Overexposure**

##### ***Acute Effects:***

- Eyes:** May cause irritation.
- Skin:** Prolonged or repeated contact is not likely to cause significant skin irritation. If material is encountered at elevated temperatures, thermal burns are possible.
- Inhalation:** Negligible unless heated to produce vapors or encountered in high concentrations. Vapors or finely misted materials may irritate the mucus membranes and cause dizziness and nausea.
- Ingestion:** No hazards are anticipated from incidental ingestion due to industrial contact. May cause stomach discomfort.

##### ***Chronic Effects:***

No known effect.

#### **4. FIRST AID MEASURES**

- Eye Contact:** Flush eyes with large amounts of tepid water for minimally 15-20 minutes. If irritation persists, seek medical attention.
- Skin Contact:** Wash with soap and water. Remove contaminated clothing. If irritation is encountered, seek medical attention.
- Inhalation:** Move to fresh air. If breathing is difficult, administer oxygen. If not breathing or no heartbeat give artificial respiration or cardiopulmonary resuscitation (CPR). Immediately seek medical attention. If irritation occurs with exposure seek medical attention.
- Ingestion:** If stomach discomfort is encountered, seek medical attention.

## 5. FIRE FIGHTING MEASURES

Flash Point: 130°C to 149°C/266°F to 300°F

Flammable Limits in Air, % by Volume:

Lower: ND\*

Upper: ND\*

Autoignition Temperature: ND\*

Extinguishing Media: Dry chemical, foam, halon (may not be permissible in some countries), carbon dioxide, water spray (fog). Note: Do not use a solid water stream as it may spread the fire.

NFPA Ratings:	Health: 1	Flammability: 1	Reactivity: 0
HMIS Ratings:	Health: 1	Flammability: 1	Reactivity: 0

\*ND - Not Determined

### **Special Fire Fighting Instructions:**

BLEVE's (Boiling Liquid Expanding Vapor Explosions) can occur when a liquid in a pressurized container is heated to temperatures beyond its boiling point. This can lead to failure of the container and damage to the surrounding area.

### **Fire Fighting Instructions:**

Water may be ineffective on flames, but may be used to keep fire exposed containers cool. Water or foam sprayed into containers of hot/burning product could produce frothing and endanger fire fighting personnel. Fire fighters should wear NIOSH and NFPA approved self-contained breathing apparatus. Fire fighting should only be performed by those who have been appropriately trained and are properly equipped.

## 6. ACCIDENTAL RELEASE

Isolate and evacuate the immediate area. Increase distance if the release involves or has the potential to involve a fire. Shutoff source if safe to do so. Remove sources of heat or ignition including internal combustion engines and power tools. Cleanup small spills with absorbent materials if trained and equipped to do so properly. Do not flush to sewer or surface water. Advise appropriate authorities and National Response Center (1-800-424-8802) if the product has entered a water course or sewer. Dispose of appropriately to avoid combustion.

## 7. HANDLING & STORAGE

Store in tightly closed containers in a dry, cool place (between 50°F and 120°F), away from sources of ignition and oxidizing agents. Ground and bond all transfer and storage equipment to prevent static sparks and equip with self-closing valves, pressure vacuum bungs and flame arrestors. Empty containers may contain residue and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition; they may explode and cause injury or death. Use spark-proof tools and explosion-proof equipment.

## 8. EXPOSURE CONTROL, PERSONAL PROTECTION

**Eye Protection:** No special eye protection is normally required. If splashing or mists are possible wear safety glasses, safety goggles or face shield in conjunction with safety glasses/goggles.

**Skin Protection:** PVC coated gloves are recommended to prevent skin contact.

**Inhalation:** If vapors or mists are generated, wear a NIOSH approved respirator with organic vapor/mist cartridges. Observe protection factor criteria cited in 29 CFR 1910.134. Self-Contained Breathing Apparatus (SCBA) should be used for fire fighting measures.

**Ventilation:** Provide adequate general and local ventilation using explosion-proof means: (1) to maintain airborne chemical concentrations below applicable present/future exposure limits, (2) to prevent accumulation of flammable/combustible vapors and the formation of oxygen deficient atmospheres, especially in confined spaces. [Note: This product may release gases or vapors that can displace oxygen in enclosed areas.]

## 9. PHYSICAL & CHEMICAL PROPERTIES

Boiling Point @ 1 atm: >200°C/>392°F  
Vapor Pressure: <2 mmHg  
% Solubility in H<sub>2</sub>O: Insoluble  
Specific Gravity (H<sub>2</sub>O = 1): 0.86-0.88 @ 25°C  
Volatiles % by Volume: <2  
Appearance: Pale yellow to amber liquid, mild odor  
Physical State: Liquid  
Melting Point: -1 to 12°C/30°F to 54°F  
Vapor Density (Air = 1): >1  
Viscosity (cSt)= 3.8-5.0 @ 40°C  
Molecular Weight = Not Determined

## 10. STABILITY & REACTIVITY

**Stability:** Stable under normal conditions of use.

**Hazardous Polymerization:** Will not occur.

**Conditions to Avoid/Incompatibilities:** Strong oxidizing agents, heat, sparks, elevated temperatures, flame and build-up of static electricity, strong acids and alkalis.

**Hazardous Decomposition Products:** Combustion of the product produces carbon monoxide and carbon dioxide. Nitrogen oxides and hydrocarbons may also be produced.

## 11. ECOLOGICAL/TOXICOLOGICAL INFORMATION

No data available.

## 12. DISPOSAL INFORMATION

This product as supplied is not a hazardous waste as defined by Federal regulation as listed as a RCRA hazardous waste (29 CFR 261). This material could become a hazardous waste if it is mixed with or comes in contact with a substances that is listed as a hazardous waste. It is the responsibility of the user to determine if the material to be disposed is hazardous according to federal, state, or local regulations. Dispose of through a licensed waste disposal company.

## 13. TRANSPORT INFORMATION

Proper Shipping name: Fatty acid ester  
DOT: Not regulated  
DOT Hazard Class: NA  
UN/Identification number: NA  
DOT Reportable Quantity (RQ): NA

## 14. REGULATORY INFORMATION

### EPA SARA TITLE III

#### **Section 302 EPCRA Extremely Hazardous Substances (EHS)**

Product Component	CAS No.	Wt%	RQ, lb	TPQ, lb
None				

#### **Section 304 CERCLA Hazardous Substances**

Product Component	CAS No.	Wt%	RQ, lb
None			

#### **Section 311/312 Hazard Categorization**

<u>Acute</u>	<u>Chronic</u>	<u>Fire</u>	<u>Pressure</u>	<u>Reactive</u>
No	No	No	No	No

#### **Section 313 EPCRA Toxic Substances**

Product Component	CAS No.	Wt. %
None		

Key:           RQ = Reportable Quantity  
              TPQ = Threshold Planning Quantity of EHS

### 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.

## 15. 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 PROCESS. SUCH INFORMATION IS TO THE BEST OF THIS COMPANY'S KNOWLEDGE AND BELIEVED ACCURATE AND RELIABLE AS OF THE DATE INDICATED. HOWEVER, NO REPRESENTATION, WARRANTY OR GUARANTEE IS MADE AS TO THE ACCURACY, RELIABILITY OR COMPLETENESS OF SUCH INFORMATION FOR THEIR OWN PARTICULAR USE.

This is the end of the MSDS