

# Safety Data Sheet

According to OSHA HCS 2012 (29 CFR 1910.1200)



## Section 1: Identification

**Product Identifier:** **Biodiesel**

**Other means of identification:**

- B100
- B99
- Fatty Acid Methyl Esters
- Fatty Acid Alkyl Esters
- Methyl Soyate
- Methyl Tallowate
- Soy Biodiesel
- Rapeseed Biodiesel
- Tallow Biodiesel
- Canola Biodiesel

**SDS Number:** H3001

**Intended Use:** Blendstock for Middle Distillate Fuels

**Uses Advised Against:** All others

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**Emergency Health and Safety Number:**  
Chemtrec: 800-424-9300 (24 Hours)

## Section 2: Hazards Identification

**Classified Hazards:** This material is classified as non-hazardous under the OSHA hazard communication standard. This product has not been tested by Texon L.P. to determine its specific health hazards. Therefore, the information provided in this section includes health hazard information on the product components

## Section 3: Composition/Information on Ingredients

Chemical Name	CASRN	Concentration <sup>1</sup>
Soybean Oil Methyl Esters	67784-80-9	0-100%
Rapeseed Oil Methyl Esters	73891-99-3	0-100%
Tallow Methyl Esters	61788-61-2	0-100%
Biodiesel (Canola Derived)	129828-16-6	0-100%
Biodiesel (Fatty Acid, Methyl Ester)	68937-84-8	0-100%
ULSD (Ultra Low Sulfur Diesel)	68476-30-2	< .1%

<sup>1</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

## Section 4: First Aid Measures

**Eye Contact:** Flush eyes with large amounts of tepid water for at least 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 (Breathing):** 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 (Swallowing):** If stomach discomfort is encountered, seek medical attention

## Section 5: Fire-Fighting Measures

### NFPA 704 Hazard Class

Health: 0 Flammability: 1 Instability: 0



0 (Minimal)  
1 (Slight)  
2 (Moderate)  
3 (Serious)  
4 (Severe)

**Extinguishing Media:** Dry chemical, foam, halon (may not be permissible in some countries), carbon dioxide, water spray (fog) is recommended. Note: Do not use a solid water stream as it may spread the fire. Use caution when applying carbon dioxide in confined spaces.

### Specific hazards arising from the chemical

**Unusual Fire & Explosion Hazards:** Biodiesel soaked rags or spill absorbents (i.e. filters, polypropylene socks, sand, etc.) can cause spontaneous combustion if stored near combustibles and not handled properly. Store biodiesel soaked filters, rags or spill absorbents in approved safety containers and dispose of properly. Oil soaked rags may be washed with soap and water and allowed to dry in well ventilated area. Firefighters should use self-contained breathing apparatus to avoid exposure to smoke and vapor.

**Special protective actions for firefighters:** Use water spray to cool drums exposed to fire. 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.

See section 9 for Flammable Properties including Flash Point and Flammable (Explosive) Limits

## Section 6: Accidental Release Measures

**Personal precautions, protective equipment and emergency procedures:** Isolate and evacuate the immediate area. Increase distance if the release involves or has the potential to involve a fire. Shut-off source of release if safe to do so. Remove sources of heat or ignition including internal combustion engines and power tools. Clean-up small spills with absorbent materials if trained and equipped to do so properly. All contaminated surfaces will be slippery. Use impervious gloves when handling contaminated material. Keep untrained personnel away from contamination.

**Environmental Precautions:** Do not flush to sewer or surface water. Advise appropriate authorities and National Response Center (1-800-424-8802) if the product entered a water course or sewer. Dispose of spill response materials to appropriately avoid combustion.

**Methods and material for containment and cleaning up:** Cleanup small spills with absorbent materials if trained and equipped to do so properly. Recover large spills into approved containers. Clean contaminated surface thoroughly.

## Section 7: Handling and Storage

**Precautions for safe handling:** Use spark-proof tools and explosion-proof equipment.

**Conditions for safe 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 all bond, 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, weld, cut, 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.

## Section 8: Exposure Controls/Personal Protection

Chemical Name	ACGIH (PEL)	OSHA (TLV)	NIOSH (REL)
Soybean Oil Methyl Esters	N/A	N/A	N/A
Rape Oil Methyl Esters	N/A	N/A	N/A
Tallow Methyl Esters	N/A	N/A	N/A
Biodiesel (Canola Derived)	N/A	N/A	N/A
Biodiesel (Fatty Acid, Methyl Ester)	N/A	N/A	N/A

Note: State, local or other agencies or advisory groups may have established more stringent limits. Consult an industrial hygienist or similar professional, or your local agencies, for further information.

**Engineering controls:** Ensure adequate ventilation, especially in confined areas. Local or general exhaust required when using at elevated temperatures that generate vapors or mists.

**Eye/Face 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/Hand Protection:** PVC coated gloves are recommended to prevent skin contact.

**Respiratory Protection:** 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 firefighting 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 atmosphere, especially in confined spaces.

[Note: This product may release gases or vapors that can displace oxygen in enclosed areas.]

## Section 9: Physical and Chemical Properties

Data represent typical values and are not intended to be specifications. N/A = Not Applicable; N/D = Not Determined

<b>Appearance:</b> Pale yellow to amber liquid, mild odor	<b>Flash Point:</b> >200°F / >93°C
<b>Physical Form:</b> Liquid	<b>Test Method:</b> (estimate)
<b>Odor:</b> Mild	<b>Initial Boiling Point/Range @ 1 atm:</b> >392°F / >200°C
<b>Odor Threshold:</b> N/D	<b>Vapor Pressure:</b> <2 mmHg
<b>pH:</b> N/A	<b>Partition Coefficient (n-octanol/water) (Kow):</b> N/D
<b>Vapor Density (air=1):</b> >1	<b>Melting/Freezing Point:</b> 30°F – 60°F / -1°C – 18°C
<b>Upper Explosive Limits (vol % in air):</b> N/D	<b>Auto Ignition Temperature:</b> N/D
<b>Lower Explosive Limits (vol % in air):</b> N/D	<b>Decomposition Temperature:</b> N/D
<b>Evaporation Rate (nBuAc=1):</b> >1	<b>Specific Gravity (water=1):</b> .86 - .88 @ 77°F (25°C)
<b>Particle Size:</b> N/A	<b>Bulk Density:</b> N/D
<b>Percent Volatile:</b> <2%	<b>Viscosity:</b> 1.9-6.0mm <sup>2</sup> /s @ 40°C
<b>Flammability (solid, gas):</b> N/A	<b>Solubility in Water:</b> Insoluble

## Section 10: Stability and Reactivity

**Stability:** Stable under normal ambient and anticipated conditions of use.

**Conditions to Avoid:** 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.

**Hazardous Polymerization:** Not known to occur.

## Section 11: Toxicological Information

Information on Toxicological Effects of Substance/Mixture

Acute Toxicity	Hazard	Additional Information	LC50/LD50 Data
Inhalation	Unlikely to be harmful		N/A
Dermal	Skin absorption is not anticipated		N/A
Oral	Ingestion is not anticipated		N/A

**Aspiration Hazard:** N/A

**Skin Corrosion/Irritation:** Not expected to be irritating.

**Serious Eye Damage/Irritation:** Not expected to be irritating.

**Symptoms of Overexposure:** N/A

**Skin Sensitization:** N/A

**Respiratory Sensitization:** Not expected to be a respiratory sensitizer.

**Specific Target Organ Toxicity (Single Exposure):** Not expected to cause organ effects from single exposure.

**Specific Target Organ Toxicity (Repeated Exposure):** Not expected to cause organ effects from repeated exposure.

**Carcinogenicity:** Not expected to cause cancer. This substance is not listed as a carcinogen by IARC, NTP or OSHA.

**Germ Cell Mutagenicity:** Not expected to cause heritable genetic effects.

**Reproductive Toxicity:** Not expected to cause reproductive toxicity.

### **Toxicological Effects of Components**

**Soybean Oil Methyl Esters** - N/D

**Rape Oil Methyl Esters** – N/D

**Tallow Methyl Esters** – N/D

**Biodiesel (Canola Derived)** – N/D

**Biodiesel (Fatty Acid, Methyl Ester)** – N/D

## **Section 12: Ecological Information**

### **GHS Classification:**

**No classified hazards**

**Persistence and Degradability:** If released to soil and water, this product is expected to be readily biodegradable under aerobic conditions.

**Bioaccumulative Potential:** This product is not expected to concentrate or accumulate in the food chain.

**Mobility in Soil:** This product is insoluble in water and may partition to sediment.

**Other Adverse Effects:** None anticipated.

## **Section 13: Disposal Considerations**

**Description of Safe Handling and Disposal Instructions:** 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 substance 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.

**Contaminated Package Disposal:** Empty containers should be transported/delivered using a registered waste carrier for local recycling or waste disposal.

## **Section 14: Transport Information**

**Proper Shipping Name:** Biodiesel, Fatty Acid Methyl Ester (FAME)

**DOT:** Not regulated when transported via US commerce and is not a hazardous substance or waste.

**DOT Hazard Class:** N/A

**UN / Identification Number:** N/A

**DOT Reportable Quantity (RQ):** N/A

## **Section 15: Regulatory Information**

### **CERCLA – Section 302 Extremely Hazardous Substances and TPQs (in pounds)**

This material does not contain any chemicals subject to the reporting requirements of SARA 302 and 40 CFR 372.

### **CERCLA/SARA – Section 311/312 (Title III Hazard Categories)**

**Acute Health:** No

**Chronic Health:** No

**Fire Hazard:** No  
**Pressure Hazard:** No  
**Reactive Hazard:** No

### **CERCLA/SARA – Section 313 and 40 CFR 372**

This material does not contain any chemicals subject to the reporting requirements of SARA 313 and 40 CFR 372.

### **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.

### **International Hazard Classification**

#### **Canada:**

N/A

### **National Chemical Inventories**

All components are either listed on the US TSCA Inventory, or are not regulated under TSCA

All components are either on the DSL, or are exempt from DSL listing requirements

## **Section 16: Other Information**

<b>Date of Issue:</b>	<b>Previous Issue Date:</b>	<b>SDS Number:</b>	<b>Status:</b>
June 1, 2015	07/08/11	H3001	Final

### **Revised Sections or Basis for Revision: GHS Updates**

Product and Company Identification (Section 1)

Hazards Identification (Section 2)

Composition/ Information on Ingredients (Section 3)

First Aid Measures (Section 4)

Fire-Fighting Measures (Section 5)

Accidental Release Measures (Section 6)

Handling and Storage (Section 7)

Exposure Limits (Section 8)

Physical and Chemical Properties (Section 9)

Stability and Reactivity (Section 10)

Toxicological Information (Section 11)

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Transport Information (Section 14)

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Other Information (Section 16)

### **Guide to Abbreviations:**

ACGIH = American Conference of Governmental Industrial Hygienists; CASRN = Chemical Abstracts Service Registry Number; CEILING = Ceiling Limit (15 minutes); CERCLA = The Comprehensive Environmental Response, Compensation, and Liability Act; EPA = Environmental Protection Agency; GHS = Globally Harmonized System; IARC = International Agency for Research on Cancer; INSHT = National Institute for Health and Safety at Work; IOPC = International Oil Pollution Compensation; LEL = Lower Explosive Limit; NE = Not Established; NFPA = Nation Fire Protection Association; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; PEL = Permissible Exposure Limit (OSHA); SARA = Superfund Amendments and Reauthorization Act; STEL = Short Term Exposure Limit (15 minutes); TLV = Threshold Limit Value (ACGIAH); TWA = Time Weighted Average (8 hours); UEL = Upper Explosive Limit; WHMIS = Worker Hazardous Materials Information System (Canada)

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