

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations Revision Date: 10/18/2016 Date of Issue: 10/18/2016

Version: 1.0

# **SECTION 1: IDENTIFICATION**

1.1. Product Identifier Product Form: Mixture Product Name: Biodiesel

Synonyms: EPA Ultra-Low Sulfur Diesel Fuel (15 PPM) / EPA Low Sulfur Diesel Fuel (500 PPM) / EPA NRLM Diesel Fuel (500 PPM)

- Dyed / Heating Oil (5000 PPM) - Dyed

1.2. Intended Use of the Product

Use of the Substance/Mixture: No use is specified.

1.3. Name, Address, and Telephone of the Responsible Party

Company

Alon USA Energy Inc. P.O. Box 1311 Big Spring, TX 79721

Primary Phone Number: 972-367-3773 Alternate Phone Number: 432-263-9243 **1.4. Emergency Telephone Number** 

Emergency Number : 800-424-9300

CHEMTREC - TOLL FREE 24 HOUR EMERGENCY TELEPHONE NUMBER

### **SECTION 2: HAZARDS IDENTIFICATION**

# 2.1. Classification of the Substance or Mixture

#### **GHS-US Classification**

Flam. Liq. 4 H227 Acute Tox. 4 (Inhalation:dust,mist) H332 Skin Irrit. 2 H315 Carc. 2 H351 STOT RE 2 H373 Asp. Tox. 1 H304 Aquatic Acute 3 H402 Aquatic Chronic 2 H411

Full text of hazard classes and H-statements: see section 16

#### 2.2. Label Elements

#### **GHS-US Labeling**

Hazard Pictograms (GHS-US)







Signal Word (GHS-US) : Danger

Hazard Statements (GHS-US) : H227 - Combustible liquid.

H304 - May be fatal if swallowed and enters airways.

H315 - Causes skin irritation. H332 - Harmful if inhaled.

H351 - Suspected of causing cancer.

H373 - May cause damage to organs (thymus, liver; bone marrow) through

prolonged or repeated exposure. H402 - Harmful to aquatic life.

H411 - Toxic to aquatic life with long lasting effects.

**Precautionary Statements (GHS-US)** : P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P210 - Keep away from extremely high or low temperatures, ignition sources, and incompatible materials. - No smoking.

P260 - Do not breathe vapors, mist, or spray.

P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.

P271 - Use only outdoors or in a well-ventilated area.

P273 - Avoid release to the environment.

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P280 - Wear protective gloves, protective clothing, and eye protection.

P301+P310 - If swallowed: Immediately call a poison center or doctor.

P302+P352 - If on skin: Wash with plenty of water.

P304+P340 - If inhaled: Remove person to fresh air and keep at rest in a position comfortable for breathing.

P308+P313 - If exposed or concerned: Get medical advice/attention.

P312 - Call a poison center or doctor if you feel unwell.

P314 - Get medical advice/attention if you feel unwell.

P321 - Specific treatment (see section 4 on this SDS).

P331 - Do NOT induce vomiting.

P332+P313 - If skin irritation occurs: Get medical advice/attention.

P362+P364 - Take off contaminated clothing and wash it before reuse.

P370+P378 - In case of fire: Use appropriate media (see section 5) to extinguish.

P391 - Collect spillage.

P403+P235 - Store in a well-ventilated place. Keep cool.

P405 - Store locked up.

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

#### 2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

#### 2.4. Unknown Acute Toxicity (GHS-US)

No data available

# **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

Name	Product Identifier	%	GHS-US classification
Fuels, diesel, no. 2	(CAS No) 68476-34-6	<= 95.05	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Carc. 2, H351 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Acute 3, H402 Aquatic Chronic 2, H411
Soybean oil, methyl ester	(CAS No) 67784-80-9	<= 9.95	Skin Irrit. 2, H315 Eye Irrit. 2B, H320
Fatty acids, canola, methyl esters	(CAS No) 129828-16-6	<= 5	Not classified
Fatty acids, tallow, methyl esters	(CAS No) 61788-61-2	<= 5	Not classified
Fatty acids, C12-18, methyl esters	(CAS No) 68937-84-8	<= 5	Not classified
Oxirane, methyl-, polymer with oxirane, mono(2-ethylhexyl) ether	(CAS No) 64366-70-7	<= 0.25	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Asp. Tox. 1, H304 Aquatic Acute 3, H402

Full text of H-phrases: see section 16

The specific chemical identity and/or exact percentage of composition have been withheld as a trade secret [29 CFR 1910.1200]

# **SECTION 4: FIRST AID MEASURES**

# 4.1. Description of First-aid Measures

**First-aid Measures General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**First-aid Measures After Inhalation:** When symptoms occur: go into open air and ventilate suspected area. Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention.

**First-aid Measures After Skin Contact:** Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists.

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**First-aid Measures After Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

**First-aid Measures After Ingestion:** Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

## 4.2. Most Important Symptoms and Effects Both Acute and Delayed

**Symptoms/Injuries:** Causes skin irritation. Harmful if inhaled. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways.

**Symptoms/Injuries After Inhalation:** Inhalation is likely to cause adverse health effects including but not limited to: irritation, difficulty breathing, and unconsciousness.

Symptoms/Injuries After Skin Contact: Redness, pain, swelling, itching, burning, dryness, and dermatitis.

**Symptoms/Injuries After Eye Contact:** May cause slight irritation to eyes.

Symptoms/Injuries After Ingestion: Aspiration into the lungs can occur during ingestion or vomiting and may cause lung injury.

**Chronic Symptoms:** May cause damage to organs (thymus, liver; bone marrow) through prolonged or repeated exposure. Suspected of causing cancer.

#### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

### **SECTION 5: FIRE-FIGHTING MEASURES**

## 5.1. Extinguishing Media

**Suitable Extinguishing Media:** Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO<sub>2</sub>). Water may be ineffective but water should be used to keep fire-exposed container cool.

Unsuitable Extinguishing Media: Do not use a heavy water stream. A heavy water stream may spread burning liquid.

#### 5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Combustible liquid.

**Explosion Hazard:** May form flammable or explosive vapor-air mixture.

**Reactivity:** Reacts violently with strong oxidizers. Increased risk of fire or explosion.

## 5.3. Advice for Firefighters

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Carbon oxides (CO, CO<sub>2</sub>). Aldehydes. Hydrocarbons. **Other Information:** Do not allow run-off from fire fighting to enter drains or water courses.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

## 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Use special care to avoid static electric charges. Do not breathe vapor, mist or spray. Do not get in eyes, on skin, or on clothing.

### **6.1.1.** For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel. Stop leak if safe to do so.

## **6.1.2.** For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

**Emergency Procedures:** Ventilate area. Eliminate ignition sources. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

### 6.2. Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment. Collect spillage.

# 6.3. Methods and Materials for Containment and Cleaning Up

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. As an immediate precautionary measure, isolate spill or leak area in all directions. Ventilate area.

**Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill. Absorb and/or contain spill with inert material. Do not take up in combustible material such as: saw dust or cellulosic material. Use only non-sparking tools.

#### 6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

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### **SECTION 7: HANDLING AND STORAGE**

### 7.1. Precautions for Safe Handling

Additional Hazards When Processed: Handle empty containers with care because residual vapors are flammable.

**Precautions for Safe Handling:** Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Take precautionary measures against static discharge. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes, on skin, or on clothing. Do not breathe vapors, mist, spray.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Comply with applicable regulations. Take action to prevent static discharges. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating, and lighting equipment.

**Storage Conditions:** Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store in a well-ventilated place. Keep container tightly closed. Keep in fireproof place.

Incompatible Products: Strong acids, strong bases, strong oxidizers. Nitrates. Perchlorates. Chlorine. Fluorine.

#### 7.3. Specific End Use(s)

No use is specified.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), or OSHA (PEL).

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Fuels, diesel,	no. 2 (68476-34-6)	
USA ACGIH	ACGIH TWA (mg/m³)	100 mg/m³ (inhalable fraction and vapor)
USA ACGIH	ACGIH chemical category	Skin - potential significant contribution to overall exposure by the cutaneous
		route, Confirmed Animal Carcinogen with Unknown Relevance to Humans

#### 8.2. Exposure Controls

**Appropriate Engineering Controls** 

: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed. Gas detectors should be used when flammable gases or vapors may be released. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof equipment.

### **Personal Protective Equipment**

Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection.









**Materials for Protective Clothing** 

: Chemically resistant materials and fabrics. Wear fire/flame resistant/retardant clothing.

Hand Protection
Eye Protection

: Wear protective gloves.: Chemical safety goggles.

**Skin and Body Protection** 

: Wear suitable protective clothing.

**Respiratory Protection** 

: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory

protection.

Other Information : When using, do not eat, drink or smoke.

# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

# 9.1. Information on Basic Physical and Chemical Properties

Physical State : Liquid

Appearance: Clear or AmberOdor: Slight HydrocarbonOdor Threshold: No data available

oH : Neutral

**Evaporation Rate** : No data available

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Melting Point: No data availableFreezing Point: No data available

**Boiling Point** : 400 - 640 °F (204.44 - 337.78 °C)

Flash Point : 151 °F (66.11 °C)

Auto-ignition Temperature : 494 °F (256.67 °C)

Decomposition Temperature : No data available

Flammability (solid, gas) : No data available

Vapor Pressure : 1 - 10 mm Hg @ 100 °F

Relative Vapor Density at 20°C : No data available

Relative Density : No data available
Specific Gravity : 0.8 C.A.
Specific Gravity / Density : 6.76 lb/gal
Solubility : Negligible.

Partition Coefficient: N-Octanol/Water : No data available

Viscosity : 1.9 - 3.4

Lower Flammable Limit : 0.6 %

Upper Flammable Limit : 4.7 %

9.2. Other Information

VOC Content : 10 %

#### SECTION 10: STABILITY AND REACTIVITY

- 10.1. Reactivity: Reacts violently with strong oxidizers. Increased risk of fire or explosion.
- 10.2. Chemical Stability: Combustible liquid. May form flammable or explosive vapor-air mixture.
- 10.3. Possibility of Hazardous Reactions: Hazardous polymerization will not occur.
- **10.4. Conditions to Avoid:** Direct sunlight, extremely high or low temperatures, heat, hot surfaces, sparks, open flames, incompatible materials, and other ignition sources.
- 10.5. Incompatible Materials: Strong acids, strong bases, strong oxidizers. Nitrates. Perchlorates. Chlorine. Fluorine.
- 10.6. Hazardous Decomposition Products: None known.

#### **SECTION 11: TOXICOLOGICAL INFORMATION**

# 11.1. Information on Toxicological Effects

Acute Toxicity: Inhalation:dust.mist: Harmful if inhaled.

1	
Biodiesel	
ATE (Dust/Mist)	3.79 mg/l/4h
Fuels, diesel, no. 2 (68476-34-6)	
LD50 Oral Rat	18.7 - 24.9 ml/kg
LD50 Dermal Rabbit	> 4300 mg/kg
LC50 Inhalation Rat	3.6 mg/l/4h
Fatty acids, C12-18, methyl esters (68937-84-8)	
LD50 Oral Rat	> 2000 mg/kg

**Skin Corrosion/Irritation:** Causes skin irritation.

pH: Neutral

Serious Eye Damage/Irritation: Not classified

pH: Neutral

Respiratory or Skin Sensitization: Not classified

**Germ Cell Mutagenicity:** Not classified **Carcinogenicity:** Suspected of causing cancer.

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified

Specific Target Organ Toxicity (Repeated Exposure): May cause damage to organs through prolonged or repeated exposure.

**Aspiration Hazard:** May be fatal if swallowed and enters airways.

Symptoms/Injuries After Inhalation: Inhalation is likely to cause adverse health effects including but not limited to: irritation,

difficulty breathing, and unconsciousness.

Symptoms/Injuries After Skin Contact: Redness, pain, swelling, itching, burning, dryness, and dermatitis.

Symptoms/Injuries After Eye Contact: May cause slight irritation to eyes.

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**Symptoms/Injuries After Ingestion:** Aspiration into the lungs can occur during ingestion or vomiting and may cause lung injury. **Chronic Symptoms:** May cause damage to organs (thymus, liver; bone marrow) through prolonged or repeated exposure. Suspected of causing cancer.

### **SECTION 12: ECOLOGICAL INFORMATION**

#### 12.1. Toxicity

**Ecology - General** : Harmful to aquatic life. Toxic to aquatic life with long lasting effects.

Fuels, diesel, no. 2 (68476-34-6)	
LC50 Fish 1	57 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
Fatty acids, C12-18, methyl esters (68937-84-8)	
LC50 Fish 1	550 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [semi-static])

#### 12.2. Persistence and Degradability

Biodiesel	
Persistence and Degradability	May cause long-term adverse effects in the environment.

#### 12.3. Bioaccumulative Potential

Biodiesel	
Bioaccumulative Potential	Not established.
Fatty acids, C12-18, methyl esters (68937-84-8)	
Log Pow	6.02 - 7.81

### **12.4. Mobility in Soil** No additional information available

### 12.5. Other Adverse Effects

Other Information : Avoid release to the environment.

#### **SECTION 13: DISPOSAL CONSIDERATIONS**

#### 13.1. Waste Treatment Methods

**Waste Disposal Recommendations:** Dispose of contents/container in accordance with local, regional, national, and international regulations.

Additional Information: Handle empty containers with care because residual vapors are flammable.

**Ecology - Waste Materials:** Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

## **SECTION 14: TRANSPORT INFORMATION**

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

### 14.1. In Accordance with DOT

Proper Shipping Name : FUEL OIL (No. 1, 2, 4, 5, or 6)

Hazard Class : 3 Identification Number : NA1993 Label Codes : 3

Packing Group : III

Marine Pollutant : Marine pollutant

ERG Number : 128 14.2. In Accordance with IMDG

Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fuels, diesel, no. 2)

Hazard Class : 9

Identification Number: UN3082Packing Group: IIILabel Codes: 9EmS-No. (Fire): F-AEmS-No. (Spillage): S-F

Marine Pollutant : Marine pollutant





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#### 14.3. In Accordance with IATA

Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fuels, diesel, no. 2)

Packing Group : III

Identification Number : UN3082

Hazard Class : 9 Label Codes : 9 ERG Code (IATA) : 9L



# **SECTION 15: REGULATORY INFORMATION**

# 15.1. US Federal Regulations

Biodiesel	
SARA Section 311/312 Hazard Classes	Fire hazard
	Immediate (acute) health hazard
	Delayed (chronic) health hazard
Fuels, diesel, no. 2 (68476-34-6)	
Listed on the United States TSCA (Toxic Substances Contro	ol Act) inventory
Fatty acids, canola, methyl esters (129828-16-6)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
EPA TSCA Regulatory Flag	P - P - indicates a commenced PMN substance
Fatty acids, tallow, methyl esters (61788-61-2)	
Listed on the United States TSCA (Toxic Substances Contro	ol Act) inventory
Fatty acids, C12-18, methyl esters (68937-84-8)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Soybean oil, methyl ester (67784-80-9)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Oxirane, methyl-, polymer with oxirane, mono(2-ethylhe	exyl) ether (64366-70-7)
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
EPA TSCA Regulatory Flag	P - P - indicates a commenced PMN substance
	XU - XU - indicates a substance exempt from reporting under the
	Inventory Update Reporting Rule, i.e, Partial Updating of the TSCA
	Inventory Data Base Production and Site Reports (40 CFR 710(C))

15.2. US State Regulations Neither this product nor its chemical components appear on any US state lists.

# SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Revision Date** : 10/18/2016

 Other Information
 : This document has been prepared in accordance with the SDS

requirements of the OSHA Hazard Communication Standard 29 CFR

1910.1200

### **GHS Full Text Phrases:**

Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Asp. Tox. 1	Aspiration hazard Category 1
Carc. 2	Carcinogenicity Category 2
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Eye Irrit. 2B	Serious eye damage/eye irritation Category 2B
Flam. Liq. 3	Flammable liquids Category 3
Flam. Liq. 4	Flammable liquids Category 4
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
H226	Flammable liquid and vapor
H227	Combustible liquid
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation

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H319	Causes serious eye irritation
H320	Causes eye irritation
H332	Harmful if inhaled
H351	Suspected of causing cancer
H373	May cause damage to organs through prolonged or repeated exposure
H402	Harmful to aquatic life
H411	Toxic to aquatic life with long lasting effects

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

SDS US (GHS HazCom)

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