



Revision date: 6th August 2025
Version 3.0

MATERIAL SAFETY DATA SHEET

Biofuel

1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1 Commercial Product identifier:** Biodiesel (FAME)
- 1.2 Uses of the substance/mixture:** Fuel, Fuel blend
- 1.3 Details of the company/supplier of the safety data sheet:** Syntech Biofuel.
Unit 9 Kingsnorth Industrial Estate
Grain
ME3 9ND
Tel: 01634394018
E-mail: hello@syntechbiofuel.com
- 1.4 Emergency telephone number:** Office hours – 01634394018/01634766860

2 HAZARDS IDENTIFICATION

- 2.1 Most important hazards:** This substance is classified as non-dangerous according to Directive 67/548/EEC. (Dangerous substance directive)
- 2.2 Main symptoms:** Not applicable
- 2.3 Environmental properties:** Not hazardous

3 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Substance name	Fatty acids, vegetable-oil, Methyl Esters
Value(s)	100%
CAS Number	68990-52-3
EC Number	273-606-8
EC Index	-

Full text of R-phrases See section 16.

4 FIRST AID MEASURES

4.1 Description of first aid measures:

INHALATION

Keep at rest
Supply fresh air
Consult doctor in case of symptoms

SKIN CONTACT

The product is not a dermal irritant.
Rinse with soap and water

EYE CONTACT

Rinse for 15 – 20 minutes under running water
Consult doctor if necessary.

INGESTION

Rinse mouth with water
Drink plenty of water
In case of persistent symptoms consult doctor.

4.2 Most important symptoms and effects, both acute and delayed:

Minor eye irritation possible.
Vapours produced by heating, or finely misted materials may irritate the mucous membranes and cause dizziness and nausea.
Thermal burns are possible on contact with material at elevated temperatures.

4.3 Indication of any immediate medical attention and special treatment needed:

Not relevant for this substance.

4.4 Additional advice

Never give anything by mouth to an unconscious person.
Show this safety data sheet to the doctor in attendance
Treat symptomatically.

5 FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media:

Use firefighting measures that suit the environment
Use dry chemical, CO₂, water spray or alcohol-resistant foam, halon.

5.2 Unsuitable extinguishing media:

Water stream may splash the burning liquid and spread fire.
High volume water jet.

5.3 Special hazards arising from the substance:

In combustion emits toxic fumes of carbon dioxide (CO₂)/carbon monoxide (CO)
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

5.4 Advice for fire-fighters:

Wear full personal protective clothing and self-contained breathing apparatus.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel: Eliminate all sources of ignition.
Wear personal protective equipment.
If outside do not approach from downwind.
If outside keep bystanders upwind and away from danger point.
Mark out the contaminated area with signs and prevent access to unauthorised personnel.

For emergency responders: Wear self-contained breathing apparatus.
Wear protective clothing to prevent contact with skin and eyes.

6.2 Environmental precautions:

Do not allow product to enter drainage systems, surface water or ground water.
Do not flush into surface water or sanitary sewer system.

6.3 Methods and materials for containment and cleaning up:

6.3.1 Spill containment: Soak up with inert absorbent material; sand, diatomite, universal binder, sawdust, spill mats or spill soak.

6.3.2 Spill clean-up: Pick up small spills with adsorbent materials and dispose of properly to avoid combustion. For large spills soak up with inert absorbent material, sweep up and shovel into suitable container for disposal. Once spill is collected wash hard surfaces with detergent to remove remaining oil residue.

6.4 Reference to other sections:

Please refer to Section 8 of this Safety Data Sheet for information on exposure controls and personal protection and Section 13 for information on disposal considerations.

7 HANDLING AND STORAGE



7.1 Precautions for safe handling:	<p>Wear personal protective equipment</p> <p>Use only in well ventilated areas</p> <p>Do not eat, drink or smoke in work areas;</p> <p>Remove contaminated clothing and protective equipment before entering eating areas.</p>
7.2 Conditions for safe storage, including any incompatibilities:	<p>Avoid open flames.</p> <p>Store in cool, well ventilated area away from light</p> <p>Keep away from sources of ignition. Keep container tightly closed. Storage life, ~2 years. Protect from frost.</p> <p>Store above -10°C. Keep away from oxidizing agents and excessive heat.</p>
7.3 Specific end use(s):	Fuel

8 EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1 Control parameters:	No required control limits
8.2 Exposure Controls:	<p>8.2.1 Engineering controls: No relevant engineering controls</p> <p>8.2.2 Individual protection measures: Not required if used appropriately.</p> <p>8.2.3 Environmental exposure controls: Do not allow product or large quantities of the product into ground water, water bodies or drainage systems. Biodiesel degrades within 2 – 3 weeks.</p>
8.4 Personal Protection	
Respiratory protection	: Not required under normal use. If vapours or mists are generated, wear an approved organic vapour/mist respirator.
Hand protection	: Not required under normal use. Nitrile gloves recommended to prevent skin contact.
Eye protection	: Not required under normal use. Safety glasses, goggles, or face shield recommended to protect eyes from mists or splashing.
Hygiene measures	: Follow good industrial hygiene and safety practice, washing exposed areas of skin several times daily and laundering contaminated clothing before re-use. Only use in area where there is appropriate ventilation

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid
Colour	Yellow



Odour	Mild
pH	Not available
Melting point/range	Approximately -10°C
Boiling point	Approximately 300°C
Flash point	+ 101 °C
Pour point	
Evaporation rate	Not available
Flammability (solid, gas)	Not flammable For the definition of flammability, REACH refers to regulation 67/548. According to this regulation flammability is not required for liquids if the flash point is above 60 °C
Upper/lower flammability or explosive limits	Not available
Vapour pressure	4.2 m Bar at 25 °C 420 Pa, at 25 °C 3.6 m Bar at 20 °C
Density	860-900 kg/m ³ at 15 °C
Solubility	Slightly soluble
Partition coefficient: n-octanol/water	Log K _{ow} = 6.2 at 25 °C
Auto-ignition temperature	261- 374°C (+/- 5 °C)
Decomposition temperature	Not available
Viscosity	3.5 to 5.0 mm ² /s at 40 °C
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.
9.2 Other Information:	No other information available.

10 STABILITY AND REACTIVITY

10.1 Reactivity:	This product is stable, and a hazardous reaction will not occur.
10.2 Stability:	Substance is stable under normal ambient storage and handling conditions.
10.3 Possibility of hazardous reactions:	The substance reacts with strong bases to produce methanol.
10.4 Conditions to avoid:	Direct light, heat, naked flames and any areas of high humidity.
10.5 Materials to avoid:	Strong oxidising agents. Strong bases.
10.6 Hazardous decomposition products:	Combustion produces carbon oxides.

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

Acute toxicity	LD50/oral/ratio= : > 5000 mg/kg (male/female)
Inhalation	No adverse effects are expected
Skin contact	No adverse effects are expected
Ingestion	No adverse effects are expected
Chronic Toxicity	No adverse effects are expected

12 ECOLOGICAL INFORMATION

12.1 Ecotoxicity:	Not considered hazardous
12.2 Persistence and Degradability:	Slight. (FAME is not regarded as P or vP based on ready biodegradability)
12.3 Bioaccumulation:	BCF (aquatic species): 3.307 dimensionless Methyl esters of fatty acids are biodegradable in water, soil and sediments.
12.4 Mobility:	Methyl esters of fatty acids are biodegradable in water, soil and sediments.

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:	Recommendation: large volumes of product should be passed to disposers of hazardous waste.
13.2 Contaminated packaging	If recycling is not possible, dispose of in compliance with local regulations

14 TRANSPORT INFORMATION

14.1 UN number:	Not classified
14.2 Class:	Not classified
14.3 Classification code:	Not classified
14.4 Packing group:	Not classified
14.5 Labels	Not Classified
14.6 Environmental hazards:	Not classified
14.7 Special precautions for user:	Not classified

15 REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance: This substance is classified as non-dangerous according to Directive 67/548/EEC (Dangerous substance directive).

15.2 EC Number 273-606-8

16 OTHER INFORMATION

Sources of key information: European chemical agency

Abbreviations: PBT: substance with persistent, bio accumulative and toxic properties

vPvB: substance with very persistent and very bio accumulative properties

Mixture classification information: Not applicable

List of relevant R phrases, hazard statements, safety phrases and/or precautionary statements: Not applicable

DISCLAIMER:

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