

Safety Data Sheet

Biodiesel B100



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MATERIAL SAFETY DATA SHEET

BIODIESEL EN14214 2017

1. Identification of product and producer

Name of product: Biodiesel
Product description: Methyl esters from lipid sources
Producer's identification:
Name of producer: Various

2. Composition / Information on ingredients:

This product is made by methyl esters from 96.5% lipid sources, accordingly to CAS 73891-99-3.
The product contains no hazardous materials.

3. Hazards identification

INHALATION:

Negligible if not heated to produce vapours. Vapours or finally misted materials may irritate the mucous membranes and cause irritation, dizziness and nausea. Remove to fresh air.

EYE CONTACT:

May cause irritation. Irrigate eye with water for at least 15 to 20 minutes. Seek medical attention if symptoms persist.

SKIN CONTACT:

Prolonged or repeated contact is not likely to cause significant skin irritation.
Material is sometimes encountered at elevated temperatures. Thermal burns are possible.

INGESTION:

No hazards anticipated from ingestion incidental to industrial exposure.

4. First aid measures

EYES: Irrigate eyes with a heavy stream of water for at least 15 to 20 minutes.

SKIN: Wash exposed areas of the body with soap and water.

INHALATION: Remove from area of exposure; seek medical attention if symptoms persist.

INGESTION: Give one or two glasses of water to drink. If gastric-intestinal symptoms develop, consult medical personnel. (Never give anything by mouth to an unconscious person).

5. Fire fighting measures

- Flash Point (Method Used) : 130 C
- Flammability Limits : None known

Extinguishing media:

Dry chemical, foam, CO₂, water spray (fog). Water stream may splash the burning liquid and spread fire.

Special fire fighting procedures :

Use water spray to cool drums exposed to fire.

Unusual fire and explosion hazards:

Oil soaked rags can cause spontaneous combustion if not handled properly. Before disposal, wash rags with soap and dry in well-ventilated area. Fire fighters should use self-contained breathing apparatus to avoid exposure to smoke and vapour.

6. Accidental release measures spill clean-up procedures:

Remove sources of ignition, contain spill to smallest area possible. Stop leak if possible. Pick up small spills with absorbent materials such as paper towels, "oil dry", sand or dirt. Recover large spills for salvage or disposal. Wash hard surfaces with safety solvent or detergent to remove remaining oil film. Greasy nature will result in a slippery surface.

7. Handling and storage

Store in closed containers less than 50C.

Keep away from oxidizing agents, excessive heat and /or ignition sources.

Store and use in well ventilated areas. Do not store or use near heat, spark or flame, store out of sun. Do not puncture, drag or slide the container.

8. Exposure control / personal protection

If vapours or mists are generated, wear an approved organic vapour/mist respirator mask. Safety glasses, goggles or face shield recommended to protect eyes from mists or splashing. PVC coated gloves recommended to prevent skin contact. Employees must practice good personal hygiene, washing exposed areas of skin several times daily and laundering contaminated clothing before re-use.

9. Physical and chemical properties

The Biodiesel is produced and delivered as per EN 14214 Standard.

Organoleptical properties: Typical Values.

Characteristics Admissibility conditions

Appearance Fluid, free of sediments;

Colour Yellow / Brown

Odour Characteristic for vegetables oil

Chemical properties:

Characteristics	Units	Values	
		Min	Max
Ester content	%(m/m)	96,5	
Density at 15°C	kg/m ³	860	900
Viscosity at 40°C	mm ² /s	3,50	5,00
Flash point	°C	150	
Sulphur content	mg/kg		10,0
Carbon residue (10% distillation residue)	%(m/m)		0,30
Cretonne number		51,0	
Sulfur Ash content	%(m/m)		0,02
Water	mg/kg		500
Total contamination	mg/kg		24
Copper corrosion (3 h at 50°C)	cotter	Class 1	
Oxidation stability (110°C)	h g/mc ³	6,0	
Acid value	mg KOH/g		0,50
Iodine value	g I ₂ /100 g		120
Linolenic acid methyl ester	%(m/m)		12
Methanol content	%(m/m)		0,20
Mono glycerides	%(m/m)		0,80
Bi glycerides	%(m/m)		0,20
Tri glycerides	%(m/m)		0,20
Free glycerol	%(m/m)		0,02
Total glycerol	%(m/m)		0,25
Sodium + Potassium	mg/kg		5,0
Calcium Magnesium	mg/kg		5,0
Phosphorus	mg/kg		10,0

10. Stability and reactivity

This product is stable and hazardous polymerization will not occur.
Incompatible materials and conditions to avoid: strong oxidizing agents.
During combustion will produce black smoke.

11. Toxic Hazards:

Not know

12. Ecological information:

- Biodegradable and can pollute rivers and streams in large quantities
- It is not toxic.

13. Evacuation considerations

Remove sources of ignition, contain spill to smallest area possible. Stop leak if possible. Pick up small spills with absorbent materials such as paper towels, "oil dry", sand or dirt. Recover large spills for salvage or disposal. Wash hard surfaces with safety solvent or detergent to remove remaining oil film. Greasy nature will result in a slippery surface.

14. Transport information:

The transport should respect the local transport's regulations for food and oil materials.

15. Other Information

Technical control: Store and use in well ventilated areas. Do not store or use near heat, spark or flame, store out of sun. Do not puncture, drag or slide the container. Employees must practice good personal hygiene, washing exposed areas of skin several times daily and laundering contaminated clothing before re-use. Administrative control: Employees shall be informed about the possible risks that may occur handling biodiesel.

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 other process. Such information is to the best of company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is user's responsibility to satisfy himself as to suitability and completeness of such information for his own particular use.