



**SAFETY DATA SHEET**  
According to Regulation (EC) No 1907/2006  
**Biodiesel 100, Fyringsolje Bio 100**

Version number: 1  
Issued: 2020-04-20

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

**Trade name** Biodiesel 100, Fyringsolje Bio 100

**Article No.** 17900, 20500

**CAS No.** 67762-38-3

**EC number** 267-015-4

**REACH registration number** 01-2119471664-32-0083

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Product type** Bio Fuel

**Use** Fuel  
Heating oil

**Not suitable for use in** Preem advises against using the product for applications that have not been registered and risk-assessed.

### 1.3. Details of the supplier of the safety data sheet

**Supplier** Preem Norge AS

Street address Lysaker Torg 6, 4 etasje, Lysaker

476,1327 Lysaker  
Norge

Telephone Bulk: 04211 eller 64 80 84 44

**Email address** kundeservice@preem.no

### 1.4. Emergency telephone number

**Emergency phone number** NHS 111

**Available outside office hours** Yes

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Description** The product is not classified as dangerous according to Directive (EC) No 1272/2008 (CLP).

### 2.2. Label elements

The product does not require labelling in accordance with CLP Regulation (EC) No 1272/2008.

### 2.3. Other hazards

**Other hazards** No information/data is available for this product.



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*Other*

**Other** On the basis of available data, the product is not considered to contain PBT substances (persistent/bio-accumulative/toxic) or vPvB substances (very persistent and very bio-accumulative) in accordance with Regulation (EC) no. 1907/2006 (REACH) annex XIII.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Chemical name	CAS No. EC No. REACH No. Index No.	Concentration	Classification	H-phrase M factor acute M factor chronic	Note
Fatty acids, C16-18 and C18-unsatd., Me esters	67762-38-3 267-015-4 01-2119471664-32 -	100%	-	- - -	-

**Substance additional information**

Explanations for relevant hazard and risk phrases can be found under heading 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**Inhalation**

In case of symptoms arising from inhalation of product fumes, mists or vapour : Provide fresh air, warmth and rest, preferably in a comfortable upright sitting position. Get medical attention if any discomfort continues.

**Skin contact**

Wash with plenty of soap and water.

**Eye contact**

Promptly wash eyes with plenty of water while lifting the eye lids. Remove contact lenses, if present and easy to do so . Get medical attention if any discomfort continues.

**Ingestion**

Do not induce vomiting. Contact physician if larger quantity has been consumed.

### 4.2. Most important symptoms and effects, both acute and delayed

**Inhalation**

Fumes or mist in abnormally high concentrations, as well as from exposure in poorly ventilated premises or restricted areas, can cause irritation in the nose and throat, headache, nausea and drowsiness.

**Skin contact**

Symptoms: reddening, irritation.

**Eye contact**

Causes eye irritation.

**Ingestion**

If any, nausea and diarrhoea might occur. Symptoms of aspiration are respiratory effects with anxiety as the resultant person may become dizzy, get cough, dizziness and impaired oxygen supply.

### 4.3. Indication of any immediate medical attention and special treatment needed

**Indication of any immediate medical attention and special treatment needed**

May cause subcutaneous necrosis. Requires immediate surgical examination and thorough cleaning of the wound and underlying tissue. NOTE! The fluid may have spread into the tissue by the high pressure.



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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media**

Carbon dioxide  
Other inert gases (subject to regulations)  
Dry chemical powder  
Water fog (trained personnel only)

**Unsuitable extinguishing media**

Do not use a solid water stream as it may scatter and spread fire.

### 5.2. Special hazards arising from the substance or mixture

**Special hazards arising from the substance or mixture**

Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide . Carbon dioxide , unidentified organic and inorganic compounds.

### 5.3. Advice for firefighters

**Special protective equipment for fire-fighters**

In case of a large fire or in confined or poorly ventilated spaces, wear full fire resistant protective clothing and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode

**Other****Other**

Warning : before intervention : Containers close to fire should be removed immediately or cooled with water. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions, protective equipment and emergency procedures**

When inside buildings or confined spaces, ensure adequate ventilation . Spillages of the product entail a risk of slipping. Use suitable protective equipment (see section 8).

### 6.2. Environmental precautions

**Environmental precautions**

Stop or contain leak at the source, if safe to do so . Prevent spillage entering a watercourse or sewer, contaminating soil or vegetation. If this is not possible notify police and appropriate authorities immediately.

### 6.3. Methods and material for containment and cleaning up

**Methods and material for containment and cleaning up**

In case of soil contamination, remove contaminated soil and treat in accordance with local regulations. Transfer collected product and other contaminated materials to suitable containers for recovery or safe disposal. Absorb spilled product with suitable non-combustible materials, such as vermiculite or adsorbing polypropylene cloth/felt.

### 6.4. Reference to other sections

**Reference to other sections**

Regarding personal protective equipment, see section 8. Regarding waste management, see section 13.



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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Preventive handling precautions** Use suitable protective equipment (see section 8).

**General hygiene** Keep away from food and beverages. Wash the hands thoroughly after handling . Do not use oil soaked clothing.

### 7.2. Conditions for safe storage, including any incompatibilities

**Conditions for safe storage, including any incompatibilities** Do not weld, solder, drill, cut or perform similar operations on or near containers. Do not re-use emptied, unclean containers for other purposes. Handled and stored at temperatures of -15 ° C . Keep away from heat.

### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

**Exposure limits** Rape-seed methyl ester (RME)  
Dnel:  
Oral: 5 mg/kg The Public  
Dermal: 10 mg/kg Workers 5 mg/kg The Public  
Inhalation : 6,96 mg/m<sup>3</sup> Workers 23 mg/m<sup>3</sup> The Public

### 8.2. Exposure controls

**Technical precaution measures** Provide adequate ventilation. Observe occupational exposure limits and minimize the risk of inhalation of vapours.

**Eye / face protection** Wear safety goggles.

**Safety gloves** Use protective gloves made of:  
>8h Nitrile. Viton rubber (fluor rubber).  
4-8h Silver Shield/4H.  
1-4h Barrier (PE/PA/PE)  
<1h Rubber, neoprene or PVC. Butyl rubber.

**Other skin protection** Wear appropriate clothing to prevent any possibility of skin contact.

**Respiratory protection** Not explosive. Not explosive. Breathing apparatus with an air supply must be used when removing large spillages or when entering tanks, vessels or other confined spaces.

**Thermal hazards** No information/data is available for this product.

**Environmental exposure controls** Prevent spillage entering a watercourse or sewer, contaminating soil or vegetation. If this is not possible notify police and appropriate authorities immediately. Regarding waste management, see section 13.



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## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>Appearance, physical state</b>	Liquid
<b>Appearance, colour</b>	Greenish yellow
<b>Odour</b>	Mild
<b>Odour treshold</b>	Not applicable
<b>pH value</b>	Not applicable
<b>Melting point / freezing point</b>	>-16,92<-15,59 ° C (EU Method A.1)
<b>Initial boiling point and boiling range</b>	>300 °C (ASTM E 537-02)
<b>Flash point</b>	>101 °C, COC, AST D 7094-04
<b>Evaporation rate</b>	Not applicable
<b>Flammability (solid, gas)</b>	Not applicable
<b>Upper / lower flammability or explosive limits</b>	Not applicable
<b>Vapour pressure</b>	4,2 mBar (EU Method A.4)
<b>Vapour density</b>	Not applicable
<b>Relative density</b>	1 - 1
<b>Solubility</b>	<0,023 g/l (EU METHOD A.6) i vann
<b>Partition coefficient: n-octanol / water</b>	> 6,7 Log Pow (OECD 105)
<b>Auto-ignition temperature</b>	>200 °C
<b>Decomposition temperature</b>	Not applicable
<b>Viscosity, kinematic</b>	3,5-5,0 mm <sup>2</sup> /s (40°C)(SS-EN 14214)
<b>Viscosity, dynamic</b>	Not applicable
<b>Explosive properties</b>	Not explosive.
<b>Oxidising properties</b>	Not applicable

### 9.2. Other information

**Other information** For additional and more specific physical data, see the product information sheet for each product at [www.preem.se](http://www.preem.se).



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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity** Stable under normal temperature conditions and recommended use.

### 10.2. Chemical stability

**Chemical stability** Stable under normal temperature conditions and recommended use.

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** May react with strong oxidizing agents, such as chlorates, nitrates and peroxides.

### 10.4. Conditions to avoid

**Conditions to avoid** When heated and in case of fire, very toxic vapours/gases may be formed. Avoid contact with oxidising agents.

### 10.5. Incompatible materials

Not applicable

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Carbon dioxide carbon monoxide

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**Acute toxicity** The product is not classified as toxic.  
Oral :  
LD50 > 5000 mg/kg ( Rat ) ( OECD 401)  
Dermal :  
LD50 > 2000 mg/kg ( Rat ) ( EPA OPPTS 870.1200)

**Skin corrosion/irritation** Irritating OECD 404)  
The product is not classified as an irritant.

**Serious eye damage/irritation** Irritating : (OECD 405)  
The product is not classified as an irritant.

**Germ cell mutagenicity** Not applicable

**Carcinogenicity** The product is not classified as carcinogenic.

**Reproductive toxicity** The product is not classified as toxic to the reproductive system.

**STOT-single exposure** No information/data is available for this product.

**STOT-repeated exposure** Oral : NOAEL / 28d > 1000 mg/kg Bw/d ( Rat ) ( OECD 422)

**Aspiration hazard** Not applicable



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## SECTION 12: Ecological information

### 12.1. Toxicity

**Toxicity** Not classified as dangerous to the environment. However, the product should not be allowed to enter drains or water courses or be deposited where it can affect ground or surface waters.

**Aquatic** Rape-seed methyl ester (RME) (67762-38-3)  
LC50, 96h > 0,26 mg/ ( Brachydanio rerio (Zebra Fish) ) (OECD 203)  
NOEC, 72h > 0,131 mg/l ( Pseudokirchnerella subcapitata ) ( OECD 201)

### 12.2. Persistence and degradability

**Persistence and degradability** The product is expected to be biodegradable  
Rape-seed methyl ester (RME) ( 67762-38-3 ) :  
BOD 28 : 75% ( OECD 301B)

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** The product is not bioaccumulating.

### 12.4. Mobility in soil

**Mobility** The substance has a very low solubility in water and have a high potential for adsorption, which indicates a very low mobility in soil..

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** On the basis of available data, the product is not considered to contain PBT substances (persistent/bio-accumulative/toxic) or vPvB substances (very persistent and very bio-accumulative) in accordance with Regulation (EC) no. 1907/2006 (REACH) annex XIII.

### 12.6. Other adverse effects

**Other adverse effects** In the event of discharges, the product can form a film on the surface of the water. This film can physically harm aquatic organisms and reduce their oxygen exchange.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal considerations** Incinerate in approved facility.  
16 03 05 - organic wastes containing dangerous substances  
13 08 99 - wastes not otherwise specified  
16 07 08 - wastes containing oil  
13 07 03 - other fuels (including mixtures)

**Packaging** Discharge Instructions: Place the packaging upside down slightly inclined, about 10 degrees, for runoff in such a way that the lowest point of the package is exit. On some packages an extra hole needs to be made. The run-off shall take place at room temperature (min 15 C). Wait until the package is drip dry. Do not reseal the packaging after runoff.  
Residues can constitute an explosion risk. Do not puncture, cut or weld packages, containers or barrels that have not been cleaned. Do not remove labels. Proposals for waste codes for cleaned packaging:  
15 01 02- Plastic packaging  
15 01 04 - Metallic packaging  
Proposed waste codes for uncleaned packaging:  
15 01 10 - packaging containing residues of or contaminated by dangerous substances



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## SECTION 14: Transport information

### 14.1. UN number

Not applicable

### 14.2. UN proper shipping name

Not applicable

### 14.3. Transport hazard class(es)

Not applicable

### 14.4. Packing group

Not applicable

### 14.5. Environmental hazards

Not applicable

### 14.6. Special precautions for user

Not applicable

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

MARPOL Annex II rules apply for bulk shipments by sea.

Pollution category : Y

Ship type: 2

Product name : Rape seed oil fatty acid methyl esters

#### Other

#### Other

Not classified as hazardous goods.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU regulations

Regulation (EC) No 1907/2006 of the European Parliament and of the Council, concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures (CLP).

### 15.2. Chemical safety assessment

#### Chemical safety assessment

Chemical safety report/assessment has been prepared in conjunction with REACH registration.

## SECTION 16: Other information

#### References to key literature and data sources

Safety Data Sheets from suppliers.





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**Evaluation methods for  
classification**

Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures (CLP).