



Revision date: 31 Oct 2018  
Version 1.5

Print date: 31 October 2018

## SAFETY DATA SHEET

This SDS is not required by Article 31 of REACH Regulation (EC) No. 1907/2006 as the relevant substance is not classified as hazardous (classification determined according to Regulation (EC) No. 1907/2006). However, to comply with Article 32 of REACH, and provide customers with relevant information, the format of the SDS according to Regulation (EU) No. 453/2010 (amending Regulation (EC) No. 1907/2006) has been used.

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### GBI Biodiesel Crude 70% Glycerine tallow Cat 1

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#### 1 IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

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- 1.1 Product identifier:** Glycerine  
1,2,3 Propantriol  
EINECS Number: 200-289-5  
CAS Number: 56-81-5 (100%)
- 1.2 Relevant identified uses of the substance and uses advised against:**
- 1.3 Details of the supplier of the safety data sheet:** Green Biofuels Ireland Ltd.  
Marshmeadows  
New Ross  
Co. Wexford  
Tel: +353 51 447628  
Fax: +353 51 440822  
E-mail: [office@gbi.ie](mailto:office@gbi.ie)
- 1.4 Emergency telephone number:** Office hours – 0035351447628 / Out of hours – 0035351426724
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#### 2 HAZARDS IDENTIFICATION

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- 2.1 Classification of the substance or mixture:** This substance is not classified as dangerous according to Directive 67/548/EEC.  
  
This substance is manufactured from CAT 1 tallow, and comes under local ABP regulation EC 1069/2009. Strictly for biogas application in line with regulation EC 142/2011.”
- 2.2 Label elements:** Not relevant since substance is not classified as hazardous
- 2.3 Other hazards:** This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher
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### 3 COMPOSITION/INFORMATION ON INGREDIENTS

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#### 3.1 Substances:

Main Constituent:

|                               |  |
|-------------------------------|--|
| <b>EC Name</b>                | 1,2,3-Propanetriol ,Glycerin                 |
| <b>EC Number</b>              | 200-289-5                                    |
| <b>CAS Name</b>               | Glycerol                                     |
| <b>CAS Number</b>             | 56-81-5                                      |
| <b>Description</b>            | C <sub>3</sub> H <sub>8</sub> O <sub>3</sub> |
| <b>Molecular Weight Range</b> | ca. 92.09 g/mol                              |

**3.2 Mixtures:** Not relevant as substance is not a mixture.

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### 4 FIRST AID MEASURES

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**If Inhaled** – Remove person to fresh air; If not breathing give artificial respiration.

**If Skin Contact** – Wash off with soap and plenty of water.

**If eye Contact** – Flush eyes with copious amounts of water.

**If swallowed** – Do NOT induce vomiting unless directed by medical personnel, never give anything by mouth to an unconscious person. Rinse mouth with water. in case of persistent symptoms consult doctor

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### 5 FIRE-FIGHTING MEASURES

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**5.1 Extinguishing media:** Appropriate extinguishing media:  
Use fire fighting measures that suit the environment – Dry chemical, foam, water spray, carbon dioxide.

Unsuitable extinguishing media:  
Water stream may splash the burning liquid and spread fire

**5.2 Advice for fire-fighters:** Wear full protective clothing and self-contained breathing apparatus.

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### 6 ACCIDENTAL RELEASE MEASURES

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**6.1 Personal precautions, protective equipment and emergency procedures:** For non-emergency personnel:  
Eliminate all sources of ignition. 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. Turn leaking containers leak-side up to prevent the escape of liquid.

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.

## GBI Biodiesel Crude 70% Glycerine tallow Cat 1

|   |  |
|---|--|
| <b>6.3 Methods and materials for containment and cleaning up:</b> | <p>6.3.1 Spill containment:<br/>Absorb by use of liquid binding material (sand, diatomite, acid binder, universal binder, sawdust).</p> <p>6.3.2 Spill clean-up:<br/>Pick up small spills with adsorbent materials and dispose of properly to avoid spontaneous combustion. 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.</p> |
| <b>6.4 Reference to other sections:</b>                           | 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.  |

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## 7 HANDLING AND STORAGE

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|--|--|
| <b>7.1 Precautions for safe handling:</b>                                | Do not eat, drink or smoke in work areas; and remove contaminated clothing and protective equipment before entering eating areas.  |
| <b>7.2 Conditions for safe storage, including any incompatibilities:</b> | Avoid open flames. Store in cool, well ventilated area. Keep away from sources of ignition. Keep container tightly closed.. Keep away from oxidizing agents, excessive heat, and ignition sources. |
| <b>7.3 Specific end use(s):</b>  | To be used as per local ABP regulations.   |

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## 8 EXPOSURE CONTROLS/ PERSONAL PROTECTION

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|                                |   |
|--------------------------------|---|
| <b>8.1 Control parameters:</b> | No relevant control limits  |
| <b>8.2 Exposure Controls:</b>  | <p>8.2.1 Appropriate engineering controls:<br/>No relevant engineering controls</p> <p>8.2.2 Individual protection measures:<br/>Not required if the product is used appropriately. The usual precautionary measures should be adhered to. If vapours or mists are generated, wear a NIOSH approved organic vapour/mist respirator. 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.</p> <p>8.2.3 Environmental exposure controls:<br/>Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.</p> |

## 9 PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on the basic physical and chemical properties:

|   |  |
|---|--|
| <b>Appearance</b>                                   | Brown/ Orange liquid   |
| <b>Odour</b>  | Chatacteristic   |
| <b>Odour threshold</b>                              | Not available  |
| <b>pH</b>   | 5 - 8  |
| <b>Melting point/freezing point</b>                 | 18°C.  |
| <b>Initial boiling point and boiling range</b>      | 182 °C at 27hpa  |
| <b>Flash point</b>                                  | >150 °C ( closed cup)  |
| <b>Evaporation rate</b>                             | Not available  |
| <b>Flammability (solid, gas)</b>                    | Not flammable<br>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. The flash point of this substance is above 150 °C, well above the limit of 60 °C. |
| <b>Upper/lower flammability or explosive limits</b> | Not available  |
| <b>Vapour pressure</b>                              | 0.0033 hpa at 50 °C  |
| <b>Vapour density</b>                               | 3.18 – ( Air = 1.0)  |
| <b>Relative density</b>                             | 1.223 g/cm <sup>3</sup> at 20 °C   |
| <b>Solubility(ies)</b>                              | Water soluble  |
| <b>Partition coefficient: n-octanol/water</b>       | Not available  |
| <b>Auto-ignition temperature</b>                    | 370 °C +/- 5 °C<br>The ignition delay observed at this temperature was 60 seconds and a Temperature increase at middle of the flask was 14 °C.   |
| <b>Decomposition temperature</b>                    | Not available  |
| <b>Viscosity</b>                                    | Not available  |
| <b>Explosive properties</b>                         | Not explosive.<br>In accordance with column 2 of REACH Annex VII, the study does not need to be conducted since there are no chemical groups associated with explosive proprieties present in the molecule.  |
| <b>Oxidising properties</b>                         | Not oxidising.<br>In accordance with column 2 of REACH Annex VII, the study does not need to be conducted since the substance is incapable of reacting exothermically with combustible materials based on the chemical structure   |

**9.2 Other information:** No other information available.

## 10 STABILITY AND REACTIVITY

- 10.1 Reactivity:** This product is stable and hazardous reaction will not occur
- 10.2 Chemical stability:** Substance is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
- 10.3 Conditions to avoid:** See incompatible materials.

## GBI Biodiesel Crude 70% Glycerine tallow Cat 1

**10.4 Incompatible materials:** Strong oxidising agents. Strong bases.

**10.5 Hazardous decomposition products:** Combustion produces carbon monoxide, carbon dioxide along with thick smoke.

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## 11 TOXICOLOGICAL INFORMATION

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**Acute toxicity:**

LD50 Oral – Rat – 12.600 mg/kg

LC50 Inhalation – Rat - 1h - >570 mg/m<sup>3</sup>

LD50 Dermal – Rabbit - >10.000 mg/kg

**Irritation and corrosion**

Skin – rabbit – Mild skin irritation – 24 h

Eyes - rabbit – Mild eyes irritation – 24 h

**Sensitization** - no data available.

**Chronic exposure** - no data available.

**Germ cell mutagenicity** - no data available.

**Carcinogenicity** - No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**Reproductive toxicity** - no data available

**Specific target organ Toxicity – single exposure** - no data available.

**Specific target organ Toxicity – repeated exposure** - no data available.

**Aspiration Hazard** - no data available

Additional toxicological information:

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## 12 ECOLOGICAL INFORMATION

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**12.1 Toxicity:**

|      |  |
|------|--|
| LC50 | Carassius auratus( goldfish) - >5000 mg/l        |
| LC50 | Pimephales promelas(fathead minnow) - 44000 mg/l |
| LC50 | Other fish - >100100 mg/l                        |

**12.2 Persistence and Degradability:** No data available

**12.3 Bioaccumulative Potential:** No data available.

**12.4 Mobility in soil:** No data available.

**12.5 Results of PBT and vPvB Assessment:** No data available

**12.6 Other Adverse Effects:** No data available

### 13 DISPOSAL CONSIDERATIONS

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**13.1 Waste treatment methods:** Recommendation – large volumes should be handled as per ABP regulations

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### 14 TRANSPORT INFORMATION

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**14.1 UN number:** Not applicable (not classified)

**14.2 UN proper shipping name:** Not applicable (not classified)

**14.3 Transport hazard class(es):** This product is not classified as dangerous for transport but may only be transported by licensed and DAFRD approved hauliers, as per ABP regulations.

**14.4 Packing group:** Not applicable (not classified)

**14.5 Environmental hazards:** Not applicable (not classified)

**14.6 Special precautions for user:** Not applicable (not classified)

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** Not applicable (not classified)

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### 15 REGULATORY INFORMATION

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**15.1 Safety, health and environmental regulations/legislation specific for the substance:** This substance is not classified according to Regulation (EC) No 1272/2008 (Classification, Labelling and Packaging Regulation (CLP)).

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### 16 OTHER INFORMATION

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**Abbreviations:** PBT: substance with persistent, bioaccumulative and toxic properties  
vPvB: substance with very persistent and very bioaccumulative properties

## **GBI Biodiesel Crude 70% Glycerine tallow Cat 1**

### **DISCLAIMER:**

The information provided is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability, or suitability for an intended use, or any other warranty, expressed or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of the information for their particular purposes.