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Version 2.2

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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.

TALLOW

1 IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

- 1.1 Product identifier:** Tallow
EINECS Number:
CAS Number:
- 1.2 Relevant identified uses of the substance and uses advised against:** Sterilized Tallow produced from rendered Specified Risk Material and animal by products is mainly fat (Triglyceride) With small amount of impurities and Free Fatty acids.
- 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
- 1.4 Emergency telephone number:** Office hours – 0035351447628 / Out of hours – 0035351426724
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2 HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture:** According to Regulation (EC) No1272/2008.
Eye Irritation (category 2)
- This substance is not classified as dangerous according to Directive 67/548/EEC.
- 2.2 Label elements:** Cat 1, not for human consumption
- 2.3 Other hazards:** Can cause Burn at high temperature
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3 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances: Tallow is produced from the rendering and sterilisation of Specified Risk Material and animal by-products not fit for human consumption. This includes brains, spinal cord, thymus, tonsils, spleen, intestines; placental tissue, cell cultures of bovine origin, serum, including foetal calf serum, pancreas, adrenal glands, testicles, ovaries and hypophysis.

Main Constituent:

EC Name	Tallow
EC Number	
CAS Name	Tallow
CAS Number	
Description	
Molecular Weight Range	

3.2 Mixtures: see above.

4 FIRST AID MEASURES

If Inhaled – Remove person to fresh air; If not breathing give artificial respiration.
If Skin Contact – Will cause Burn at high temperature. Wash off with soap and plenty of water. Seek medical attention if burn severe
If eye Contact – Will cause Burn at high temperature Flush eyes with copious amounts of water. Seek medical attention if burn severe
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

5 FIRE-FIGHTING MEASURES

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.

6 ACCIDENTAL RELEASE MEASURES

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.

6.3 Methods and materials for containment and cleaning up:

6.3.1 Spill containment:

Absorb by use of liquid binding material (sand, diatomite, acid binder, universal binder, sawdust).

6.3.2 Spill clean-up:

Pick up small spills with adsorbent materials and dispose of properly to avoid spontaneous combustion. Recover large spills for alvage or disposal. Wash hard surfaces with safety solvent or detergent to remove remaining oil film. Greasy nature will result in a slippery surface.

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:

Do not eat, drink or smoke in work areas; and remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities:

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.

7.3 Specific end use(s):

No special measures required. No industry or sector specific guidance is available.

8 EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1 Control parameters:

No relevant control limits

8.2 Exposure Controls:

8.2.1 Appropriate engineering controls:

No relevant engineering controls

8.2.2 Individual protection measures:

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.

8.2.3 Environmental exposure controls:

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system. Biodiesel degrades within 2 – 3 weeks.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on the basic physical and chemical properties:

Appearance	Dark Brown solid @ 20 C, liquid @ 40 C
Odour	Chatacteristic
Odour threshold	Not available
pH	Not available
Melting point/freezing point	Approx 40°C.
Initial boiling point and boiling range	Approx 235°C at 27hpa
Flash point	Not available
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. The flash point of this substance is above 150 °C, well above the limit of 60 °C.
Upper/lower flammability or explosive limits	Not available
Vapour pressure	<1 hpa at 50 °C
Vapour density	Not available
Relative density	0.8960 g/cm ³ at 60 °C
Solubility(ies)	Insoluble in Water
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	. Not available
Decomposition temperature	Not available
Viscosity	Not available
Explosive properties	Not explosive. 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.
Oxidising properties	Not oxidising. 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.
10.4 Incompatible materials:	Strong oxidising agents. Strong bases.
10.5 Hazardous decomposition products:	Combustion produces carbon monoxide, carbon dioxide along with thick smoke.

11 TOXICOLOGICAL INFORMATION

Acute toxicity:	- no data available
Irritation and corrosion	- no data available
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:

12 ECOLOGICAL INFORMATION

12.1 Toxicity:	LC50	No data available
	LC50	No data available
	LC50	No data available
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

13.1 Waste treatment methods: This product is required by EU and Irish law to be disposed of as a fuel, incineration or manufacture of biodiesel.

14 TRANSPORT INFORMATION

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

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)

15 REGULATORY INFORMATION

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)).

Produced in accordance with Council Regulation 1774/2002/EC

16 OTHER INFORMATION

List of relevant R phrases, Eye Irritation H 319

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