

1.0 IDENTIFICATION OF THE SUBSTANCE / MIXTURE

1.1 Product Identification

Substance	Fatty acids, C14-18 and C16-18-unsatd., Me esters
Commercial Product Name	FAME (derived from various mixed UCO, animal fats and veg oils)
Synonyms	Fatty Acid Methyl ester, Biodiesel
CAS	67762-26-9
ECHA Registration No.	01-2119471662-36-0040 01-2119471662-36-0044

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

Specific Use(s)	Component for blending into Diesel Fuel, Fuel for use in diesel engine road vehicles
Exposure Scenarios	Not applicable
Uses Advised Against	
Chemical Safety Report	2010-07-26 CSR-PI-5.2.6

1.3 Details of the supplier of the SDS

Company	Inver Energy Limited River House Blackpool Park Blackpool Cork, Ireland
Telephone No.	+353 (0)21 4396950
Email	inverinfo@inverenergy.com

1.4 Emergency telephone number

Emergency telephone number	+44 1235 836 100	(NCEC)
Opening Hours	24/7	

2.0 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EU) 1272/2008

CLP-Classification: The product is non-hazardous in accordance with Directive 1272/2008/EEC

2.2 Label elements

Labelling according to Regulation (EU) 1272/2008

CLP Precautionary statements: P270 - Do not eat, drink or smoke when using this product
P264: Wash hands thoroughly after handling
P305+P351 - IF IN EYES: Rinse cautiously with water for several minutes
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

Labelling according to Directives (67/548/EEC - 1999/45/EC)

Not relevant

Other Hazards

Not applicable

3.0 COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Substance name	Product Identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP / GHS]
Fatty acids.C14-18 and C16-18-unsatd Me esters	EC no: 267-007-0 Cas no: 67762-26-9	100	Non-hazardous

3.2 Mixtures

Not applicable

4.0 FIRST AID MEASURES

4.1 Description of first aid measures

Skin contact: Wash immediately with soap and plenty of water

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes
If eye irritation persists, consult a specialist

Ingestion: Do NOT induce vomiting
Rinse mouth with water
If feels unwell, seek medical advice (show the SDS where possible)

4.2 Most important symptoms and effects, both acute and delayed

Inhalation:	No adverse effects are expected. May cause irritation of respiratory tract
Skin contact:	No adverse effects are expected. Prolonged skin contact may cause skin irritation
Eye contact:	No adverse effects are expected. Contact with eyes may cause irritation
Ingestion:	No adverse effects are expected

4.3 Indication of immediate medical attention and special treatment needed

No data available

5.0 FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Use dry chemical, CO₂, water spray or alcohol resistant foam

Extinguishing media which shall not be used for safety reasons: High volume water jet

5.2 Special hazards arising from the substance or mixture

Fire Hazard: Combustible material

Specific hazards: In case of fire hazardous decomposition products may be produced such as: Carbon oxides Fire or intense heat may cause violent rupture of packages. Heating may cause an explosion. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulation

5.3 Advice for firefighters

Special protective equipment for fire-fighters: Wear personal protective equipment. Wear self-contained breathing apparatus for firefighting if necessary

6.0 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Evacuate personnel to safe areas. See also section 8. Keep people away from and upwind of spill/leak. Do not breathe vapours or spray mist

6.2 Environmental precautions

Environmental precautions: Do not flush into surface water or sanitary sewer system

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up: Remove all sources of ignition. Do not use tools which may produce sparks. Prevent further leakage or spillage if safe to do so. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Dam up. Sweep up and shovel into suitable containers for disposal. After cleaning, flush away traces with water. Dispose of in accordance with local regulations

7.0 HANDLING AND STORAGE

7.1 Precautions for safe handling

Handling: Avoid contact with skin, eyes and clothing. See also section 8. Use only in well-ventilated areas. Do not smoke. Do not breathe vapours or spray mist

7.2 Conditions for safe storage, including any incompatibilities

Storage: Do not store near or with any of the incompatible materials listed in section 10. Store in original container. Keep tightly closed in a dry, cool and well-ventilated place

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke

7.3 Specific end use(s)

Specific use(s): see exposure scenarios

8.0 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Component: Fatty acids, C14-18 and C16-18-unsatd., Me esters (67762-26-9)
TLV-TWA (mg/m³): Non-hazardous

DNEL: n/a for substance not classified for acute toxicity

8.2 Exposure controls

Respiratory protection: In case of insufficient ventilation wear suitable respiratory equipment
Recommended Filter type: A

Hand protection: Wear chemically resistant gloves tested in accordance with EN37

Eye protection: Safety glasses (EN 166)

9.0 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance: liquid
Colour: pale yellow/green to golden brown
Odour: characteristic
pH: no data available
Boiling point/boiling range: ca. 300 - 360°C
Melting point/range: ca. -20 to 12°C
Flash point: > 101°C
Explosive properties: no data available
Oxidizing properties: no data available
Evaporation rate: no data available
Vapour pressure: < 0.1 kPa @ 20°C
Vapour density: no data available
Solubility in water: not soluble (<0.023 mg/l, limit of detection)

Viscosity: 0.35 - 0.5 mm/s² @ 40°C
Density: 860 - 900 kg/m³ @ 15°C
Partition coefficient: Log Kow = 6.2 @ 25°C n-octanol/water

9.2 Other information

No data available

10.0 STABILITY AND REACTIVITY

10.1 Reactivity

Reactivity: See also section 10.5

10.2 Chemical stability

Stability: Stable under normal conditions.

10.3 Possibility of hazardous reactions

None

10.4 Conditions to avoid

Conditions to avoid: Exposure to sunlight, heat, flames and sparks

10.5 Incompatible materials

Incompatible materials: Incompatible with strong acids, bases and oxidising agents

10.6 Hazardous decomposition products

Hazardous decomposition Products: Burning produces noxious and toxic fumes. Possible decomposition products include carbon monoxide

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

General Information

Acute toxicity

Component: **Fatty acids, C14-18 and C16-18-unsatd., Me esters (67762-26-9)**
LD50/oral/rat: > 5000 mg/kg

Inhalation: No adverse effects are expected. May cause irritation of respiratory tract

Skin contact: No adverse effects are expected. Prolonged skin contact may cause skin irritation

Eye contact: No adverse effects are expected. May cause eye irritation

Ingestion: No adverse effects are expected

Further information

No data available

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Ecotoxicity effects: Not hazardous

12.2 Persistence and degradability

Persistence and degradability: Readily biodegradable

12.3 Bioaccumulative potential

Bioaccumulation: Does not bioaccumulate
Partition coefficient: Log Kow = 6.2 @ 25°C n-octanol/water

12.4 Mobility in soil

Mobility: Immiscible

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

No data available

13.0 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste from residues / unused products: Keep product and empty container away from heat and sources of ignition
Dispose of in accordance with local regulations. Where possible, recycling is preferred to disposal or incineration

Codes of waste (2001/573/EC, 75/442/EEC, 91/689/EEC): Waste codes should be assigned by the user based on the application for which the product was used

14. TRANSPORT INFORMATION

14.1 Transport by Road

Transport of dangerous goods regulations not applicable

14.2 Transport by Sea

Product Name: Fatty Acid Methyl Esters (>99%)
Category: Y
Ship Type: 2
Venting: controlled
Specific operational Requirements: 15.12.3, 15.12.4, 15.19.6, 16.2.6, 16.2.9

15.0 REGULATORY INFORMATION

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

15.1.1 EU-Regulations

Not applicable

15.1. National regulations

Not applicable

15.2 Chemical Safety Assessment

Chemical Safety assessment: A Chemical Safety Assessment has been carried out for this substance

16.0 OTHER INFORMATION

(1) SDS updated in line with EU: REACH (directive nr. 1907/2006), suppl. II (changed directive nr. 2020/878)

(2) The contents and format of this SDS are in accordance with the ECHA Guidance on the compilation of safety data sheets, version 4.0 December 2020 ECHA-20-H-25-EN and EU: REACH (directive nr. 1907/2006), suppl. II (changed directive nr. 2020/878)

(3) Data used in this SDS has been sourced from the ECHA disseminated REACH dossier information for FAME EC 267-007-0

(4) List of Abbreviations:

SDS	Safety Data Sheet
ECHA	European Chemicals Agency
CLP	Classification, Labelling and Packaging Regs.
GHS	Globally Harmonised System [of classification]
DNEL	Derived No Effect Level
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation and Authorisation of Chemicals
ADR	Agreement for the transportation of dangerous goods by road
ADN	Agreement for the transportation of dangerous goods by Inland Waterways
RID	International Carriage of Dangerous Goods by Rail
PBT	Persistent, Bio-accumulative and Toxic
vPvB	Very Persistent and very Bio-accumulative
STOT	Single Target Organ Toxicity
IBC	International Bulk Chemical code
LEL	Lower Explosive Limit
UEL	Upper Explosive Limit
UVCB	Unknown or Variable Composition or Biological origin

The contents and format of this SDS are in accordance with EEC Commission Directive 1999/45/EC, 67/548/EC, 1272/2008/EC and EEC Commission Regulation 1907/2006/EC (REACH) Annex II.

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