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

1.1. Product identifier

Product form: Substance
Trade name/designation: Fatty acids, vegetable-oil, Me esters
Chemical name: Fatty acids, vegetable-oil, Me esters
EC-No.: 273-606-8
CAS-No.: 68990-52-3
REACH registration No: 01-2119485821-32-0051
Product group: Trade product

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

1.2.1. Relevant identified uses

Use of the substance/mixture: Fuels

1.2.2. Uses advised against

No data available

1.3. Details of the supplier of the safety data sheet

Trafignura Ventures V.B.V.
Evert van de Beekstraat 18-2
The Base, Tower B - 5th Floor
1118 CL Schiphol - The Netherlands
T +31 20 504 1800
TrafignuraReach@trafigura.com

1.4. Emergency telephone number

Emergency number: +32 3 575 03 30
This telephone number is available 24 hours per day, 7 days per week.

<table>
<thead>
<tr>
<th>Country</th>
<th>Official advisory body</th>
<th>Address</th>
<th>Emergency number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ireland</td>
<td>National Poisons Information Centre, Beaumont Hospital</td>
<td>Beaumont Hospital Beaumont Road 9 Dublin</td>
<td>+353 1 809 21 66 (public, 8am - 10pm, 7/7)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>+353 01 809 2566 (Professionals, 24/7)</td>
</tr>
<tr>
<td>United Kingdom</td>
<td>National Poisons Information Service (Newcastle Centre)</td>
<td>Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle</td>
<td>0844 892 0111 (UK only, 24/7, healthcare professionals only)</td>
</tr>
</tbody>
</table>

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Not applicable.
2.3. Other hazards
Other hazards: PBT/vPvB data. This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

SECTION 3: Composition/information on ingredients

3.1. Substances
Substance name: Fatty acids, vegetable-oil, Me esters
CAS-No.: 68990-52-3
EC-No.: 273-606-8

<table>
<thead>
<tr>
<th>Substance name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fatty acids, vegetable-oil, Me esters</td>
<td>(CAS-No.) 68990-52-3 (EC-No.) 273-606-8 (EC Index) - (REACH-no) 01-2119485821-32-0051</td>
<td>100</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

Full text of H-statements: see section 16

3.2. Mixtures
Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures
Additional advice: Never give anything by mouth to an unconscious person. In case of doubt or persistent symptoms, consult always a physician. Show this safety data sheet to the doctor in attendance.

Inhalation: Keep at rest. Provide fresh air. Give oxygen or artificial respiration if necessary.
Skin contact: Wash with plenty of water. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.
Eyes contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses.
Ingestion: Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water.

4.2. Most important symptoms and effects, both acute and delayed
Inhalation: Effects of breathing high concentrations of vapour may include: Cough.
Skin contact: Prolonged skin contact may defat the skin and produce dermatitis.
Eyes contact: Slight irritation.
Ingestion: May cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

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

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media: Water spray, Alcohol resistant foam, Carbon dioxide, Dry extinguishing powder.
Unsuitable extinguishing media: Strong water jet.
5.2. Special hazards arising from the substance or mixture

Specific hazards: The pressure in sealed containers can increase under the influence of heat. Use water spray or fog for cooling exposed containers.

Hazardous decomposition products in case of fire: Carbon oxides (CO, CO2). Toxic fumes may be released.

5.3. Advice for firefighters

Firefighting instructions: Use personal protective equipment as required. In case of fire: Wear self-contained breathing apparatus.

Other information: Do not allow run-off from fire-fighting to enter drains or water courses. Dispose of waste in accordance with environmental legislation.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

For non-emergency personnel: Provide adequate ventilation. Use personal protective equipment as required. Reference to other sections: 8. Avoid contact with skin, eyes and clothing. Do not breathe vapour/aerosol.

6.1.2. For emergency responders

For emergency responders: Ensure procedures and training for emergency decontamination and disposal are in place. Concerning personal protective equipment to use, see section 8.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Remove all sources of ignition. Stop leak if safe to do so. Dam up. Take up liquid spill into absorbent material, e.g.: sand, earth, vermiculite or powdered limestone. Collect in closed and suitable containers for disposal. Dispose of contaminated materials in accordance with current regulations. After cleaning, flush traces away with water.

6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling: Provide adequate ventilation. Ensure equipment is adequately earthed. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Do not breathe vapour/aerosol. Avoid contact with skin, eyes and clothing.

Hygiene measures: Keep good industrial hygiene. Wash hands and face before breaks and immediately after handling of the product. Emergency safety showers should be available in the immediate vicinity of any potential exposure. Wash hands and face before breaks and immediately after handling of the product. When using do not eat, drink or smoke.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures: Keep container tightly closed in a cool, well-ventilated place. Refer to the detailed list of incompatible materials in section 10 Stability/Reactivity.


Storage temperature: 10 - 50 °C

Information on mixed storage: Food or feeding stuffs.
PACKAGING MATERIALS

Keep only in the original container.

7.3. Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No data available

8.2. Exposure controls

Engineering measure(s) : Provide adequate ventilation. Take precautionary measures against static discharge. Organisational measures to prevent /limit releases, dispersion and exposure. See also section 7.

Personal protective equipment : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hand protection : Not required for normal conditions of use. The selection of specific gloves for a specific application and time of use in a working area, should also take into account other factors on the working space, such as (but not limited to): other chemicals that are possibly used, physical requirements (protection against cutting/drilling, skill, thermal protection), and the instructions / specification of the supplier of gloves.

Eye protection : Not required for normal conditions of use. During splash contact: Safety glasses (EN166)

Body protection : Overalls, apron and boots recommended.

Respiratory protection : Not required for normal conditions of use. In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazard protection : Not required for normal conditions of use. Use dedicated equipment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Liquid
Colour : Clear
Odour : Sweet
Odour threshold : No data available
pH : No data available
Relative evaporation rate (butylacetate=1) : No data available
Melting / freezing point : No data available
Freezing point : No data available
Initial boiling point and boiling range : 200 °C
Flash point : > 120 °C (PMCC (B))
Auto-ignition temperature : > 260 °C
Decomposition temperature : > 350 °C
Flammability (solid, gas) : Not applicable, liquid
Vapour pressure : < 0.3 kPa (@ 40°C)
Vapour density : > 1 (@ 15°C)
Relative density : No data available
Density : 880 kg/m³ (@ 15°C)
Solubility: Water: Negligible
Partition coefficient n-octanol/water: No data available
Kinematic viscosity: < 4 mm²/s @ 50°C
Dynamic viscosity: No data available
Explosive properties: NA: The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.
Oxidising properties: NA: The classification procedure needs not to be applied because there are no chemical groups present in the molecule which are associated with oxidising properties.
Explosive limits: No data available

9.2. Other information
No data available

SECTION 10: Stability and reactivity

10.1. Reactivity
Reference to other sections: 10.5.

10.2. Chemical stability
The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions
None known.

10.4. Conditions to avoid
Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. See also section 7.

10.5. Incompatible materials
oxidising substances. acids and bases. See also section 7.

10.6. Hazardous decomposition products
Carbon oxides. Burning produces noxious and toxic fumes.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity: Not classified (Based on available data, the classification criteria are not met.)

<table>
<thead>
<tr>
<th>Fatty acids, vegetable-oil, Me esters (68990-52-3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50/oral/rat</td>
</tr>
<tr>
<td>LD50/dermal/rat</td>
</tr>
</tbody>
</table>
Skin corrosion/irritation: Not classified (Based on available data, the classification criteria are not met.)
Serious eye damage/irritation: Not classified (Based on available data, the classification criteria are not met.)
Respiratory or skin sensitisation: Not classified (Based on available data, the classification criteria are not met.)
Germ cell mutagenicity: Not classified (Based on available data, the classification criteria are not met.)
Carcinogenicity: Not classified (Based on available data, the classification criteria are not met.)
Reproductive toxicity: Not classified (Based on available data, the classification criteria are not met.)
STOT-single exposure: Not classified (Based on available data, the classification criteria are not met.)
STOT-repeated exposure: Not classified (Based on available data, the classification criteria are not met.)
Aspiration hazard: Not classified (Based on available data, the classification criteria are not met.)
### Fatty acids, vegetable-oil, Me esters (68990-52-3)

<table>
<thead>
<tr>
<th>Kinematic viscosity</th>
<th>&lt; 4 mm²/s @ 50°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other information</td>
<td>Symptoms related to the physical, chemical and toxicological characteristics. None.</td>
</tr>
</tbody>
</table>

### SECTION 12: Ecological information

12.1. **Toxicity**

Environmental properties: Ecological injuries are not known or expected under normal use.

12.2. **Persistence and degradability**

<table>
<thead>
<tr>
<th>Fatty acids, vegetable-oil, Me esters (68990-52-3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Persistence and degradability</td>
</tr>
</tbody>
</table>

12.3. **Bioaccumulative potential**

<table>
<thead>
<tr>
<th>Fatty acids, vegetable-oil, Me esters (68990-52-3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Partition coefficient n-octanol/water</td>
</tr>
</tbody>
</table>

12.4. **Mobility in soil**

<table>
<thead>
<tr>
<th>Fatty acids, vegetable-oil, Me esters (68990-52-3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ecology - soil</td>
</tr>
</tbody>
</table>

12.5. **Results of PBT and vPvB assessment**

No data available

12.6. **Other adverse effects**

No data available

### SECTION 13: Disposal considerations

13.1. **Waste treatment methods**

<table>
<thead>
<tr>
<th>Product/Packaging disposal recommendations</th>
<th>If recycling is not practicable, dispose of in compliance with local regulations. Dispose of contaminated materials in accordance with current regulations.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additional information</td>
<td>Dispose of contaminated materials in accordance with current regulations.</td>
</tr>
<tr>
<td>European waste catalogue (2001/573/EC, 75/442/EEC, 91/689/EEC)</td>
<td>Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.</td>
</tr>
</tbody>
</table>

### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

<table>
<thead>
<tr>
<th>ADR</th>
<th>IMDG</th>
<th>IATA</th>
<th>ADN</th>
<th>RID</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.1</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>14.2</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>14.3</td>
<td>Transport hazard class(es)</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>14.4</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>14.5</td>
<td>Environmental hazards</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

- Dangerous for the environment: No
- Marine pollutant: No
<table>
<thead>
<tr>
<th>ADR</th>
<th>IMDG</th>
<th>IATA</th>
<th>ADN</th>
<th>RID</th>
</tr>
</thead>
<tbody>
<tr>
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</tr>
</tbody>
</table>

No supplementary information available

**14.6. Special precautions for user**

- **Overland transport**
  No data available

- **Transport by sea**
  No data available

- **Air transport**
  No data available

- **Inland waterway transport**
  No data available

- **Rail transport**
  No data available

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

Not applicable

**SECTION 15: Regulatory information**

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

**15.1.1. EU-Regulations**

No REACH Annex XVII restrictions

Fatty acids, vegetable-oil, Me esters is not on the REACH Candidate List

Fatty acids, vegetable-oil, Me esters is not on the REACH Annex XIV List

**15.1.2. National regulations**

**France**

Installations classées : NA

**Germany**


**Netherlands**

Waterbezwaarlijkheid : 11 - Weinig schadelijk voor in het water levende organismen B (5)

SZW-lijst van kankerverwekkende stoffen : Not listed

SZW-lijst van mutagene stoffen : Not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : The substance is not listed
15.2. Chemical safety assessment

For this substance a chemical safety assessment has been carried out.

SECTION 16: Other information

<table>
<thead>
<tr>
<th>Indication of changes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Modified</td>
</tr>
<tr>
<td>15</td>
<td>Modified</td>
</tr>
<tr>
<td>16</td>
<td>Modified</td>
</tr>
</tbody>
</table>

Abbreviations and acronyms:
- vPvB = very persistent and very bioaccumulating
- Persistent, bioaccumulating and toxic (PBT).

Sources of key data used to compile the datasheet:
- European Chemicals Bureau Chemical Safety Report. ECHA website.

Training advice:
- Training staff on good practice. Manipulations are to be done only by qualified and authorised persons.

Classification according to Regulation (EC) No. 1272/2008 [CLP]
Labelling according to Regulation (EC) No. 1272/2008 [CLP]

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