

SAFETY DATA SHEET



Revision: 6 February 2023 Version: 006

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878

Fame Tallow V3023

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1 Product identifier**
Product name Fame Tallow
Product description V3023- Fame Tallow-Fame
Trade Name Fame
Product code V3023
CAS No. 67762-26-9
EC No. 267-007-0
REACH Registration No. 01-2119471662-36-XXXX
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**
Identified Use(s) Fuel for engines.
Uses advised against Anything other than the above.
- 1.3 Details of the supplier of the safety data sheet**
Company Identification Vitol SA
Place des Bergues 3
1201 Geneva
Switzerland
Telephone +31 10 498 7200
Fax +31 10 452 9545
E-mail (competent person) xreach@vitol.com
- 1.4 Emergency Telephone Number**
Emergency Phone No. +44 (0) 1235 239 670, 24/7
Language(s) spoken: All official European languages.

SECTION 2: HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture**
2.1.1 Regulation (EC) No. 1272/2008 (CLP) Not classified as hazardous for supply/use.
- 2.2 Label elements**
Product description According to Regulation (EC) No. 1272/2008 (CLP)
V3023- Fame Tallow-Fame
Hazard Pictogram(s) None assigned
Signal Word(s) None assigned
Hazard Statement(s) None assigned
Precautionary Statement(s) None assigned
- 2.3 Other hazards** Spillages may cause slippery road.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

| SUBSTANCE | CAS No. | EC No. | %W/W |
|--|------------|-----------|------|
| Fatty acids, C14-18 and C16-18-unsatd., Me esters | 67762-26-9 | 267-007-0 | 100 |

SAFETY DATA SHEET



Revision: 6 February 2023 Version: 006

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878

Fame Tallow V3023

SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures

Self-protection of the first aider

Inhalation

Skin contact

Eye contact

Ingestion

No action should be taken involving personal risk. Use personal protective equipment as required. Take off contaminated clothing and wash it before reuse.
IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If irritation develops and persists, get medical attention.

IF ON SKIN (or hair): Remove clothing and wash thoroughly before use. Wash affected skin with soap and water. If skin irritation or rash occurs: Get medical advice/attention.

IF IN EYES: If substance has got into the eyes, immediately wash out with plenty of water for at least 15 minutes. If eye irritation persists, get medical advice/attention.

IF SWALLOWED: Do NOT induce vomiting. Wash out mouth with water and give 200-300 ml (half a pint) of water to drink. If symptoms develop, obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

None known

4.3 Indication of any immediate medical attention and special treatment needed

Unlikely to be required but if necessary treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Extinguish with sand or dry chemical. Foam, Carbon dioxide, Water fog or dry powder.

Unsuitable extinguishing media

Do not use water jet. Direct water jet may spread the fire.

5.2 Special hazards arising from the substance or mixture

Decomposes in a fire giving off toxic fumes: A mixture of solid and liquid particulates and gases including unidentified organic and inorganic compounds. May form explosive mixture with air. Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback. Prevent liquid entering sewers, basements and any watercourses.

5.3 Advice for firefighters

Fight fire with normal precautions from a reasonable distance. Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Keep containers cool by spraying with water if exposed to fire. Avoid release to the environment. Dike fire control water for later disposal.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Caution - spillages may be slippery. Eliminate sources of ignition. Stop leak if safe to do so. Ensure suitable personal protection during removal of spillages. Avoid all contact. Keep upwind.

6.2 Environmental precautions

Avoid release to the environment. Do not allow to enter drains, sewers or watercourses. Spillages or uncontrolled discharges into watercourses must be alerted to the Environment Agency or other appropriate regulatory body.

6.3 Methods and material for containment and cleaning up

Adsorb spillages onto sand, earth or any suitable adsorbent material. Sweep up and shovel into waste drums or plastic bags. Transfer to a lidded container for disposal or recovery. Ventilate the area and wash spill site after material pick-up is complete.

6.4 Reference to other sections

See Section: 8,13

SAFETY DATA SHEET



Revision: 6 February 2023 Version: 006

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878

Fame Tallow V3023

SECTION 7: HANDLING AND STORAGE

- 7.1 Precautions for safe handling** Use only outdoors or in a well-ventilated area. Prevent vapour build up by providing adequate ventilation during and after use. The vapour is heavier than air; beware of pits and confined spaces. Avoid contact with eyes. Do not ingest. Use personal protective equipment as required. See Section: 8. Keep good industrial hygiene. Wash hands thoroughly after handling. Contaminated clothing should be thoroughly cleaned.
- 7.2 Conditions for safe storage, including any incompatibilities** Bund storage facilities to prevent soil and water pollution in the event of spillage. Keep only in original packaging. Keep containers properly sealed when not in use. Protect from sunlight. Containers of this material may be hazardous when empty since they retain product residue.
- Storage temperature 10 – 50 °C. Stable at ambient temperatures.
- Storage measures Keep only in the original container.
- Incompatible materials Keep away from oxidising agents.
- 7.3 Specific end use(s)** See Section: 1.2

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters**
8.1.1 Occupational exposure limits

| SUBSTANCE | CAS No. | LTEL (8 hr TWA ppm) | LTEL (8 hr TWA mg/m ³) | STEL (ppm) | STEL (mg/m ³) | Note |
|-----------|---------------|---------------------|------------------------------------|------------|---------------------------|------|
| Mist | None assigned | - | 10 | - | - | WEL |

Source: WEL: Workplace Exposure Limit (UK HSE EH40)

- 8.1.2 Biological limit value** Not established
- 8.1.3 PNECs and DNELs** Not established
- 8.2 Exposure controls**
- 8.2.1 Appropriate engineering controls** Ensure adequate ventilation. Guarantee that the eye flushing systems and safety showers are located close to the working place.
- 8.2.2 Individual protection measures, such as personal protective equipment** Fuels are typically used, transferred and transported in closed systems. If exposure is likely (i.e. during sampling) the following advice may be appropriate.

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Eye/ face protection



Wear eye protection with side protection (EN166).

Skin protection



Hand protection: Wear impervious gloves (EN374). Gloves should be changed regularly to avoid permeation problems. Breakthrough time of the glove material: refer to the information provided by the gloves' producer. Recommended: Nitrile rubber

Body protection: Apron or other light protective clothing, boots and plastic or rubber gloves.

Respiratory protection

Open system(s): In case of inadequate ventilation wear respiratory protection. Recommended: BS EN 14387:2004+A1

SAFETY DATA SHEET



Revision: 6 February 2023 Version: 006

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878

Fame Tallow V3023



Closed system(s): Not normally required

When the product is heated/In case of inadequate ventilation wear respiratory protection. Recommended: Combination filtering device (DIN EN 141) Filter type A2

Thermal hazards

Not applicable

8.2.3 Environmental exposure controls

Avoid release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

| | |
|--|---|
| Physical state | Liquid |
| Colour | Green/Yellow |
| Odour | Mild odour, Characteristic |
| Melting point/freezing point | 6.29 °C at 1 atm |
| Boiling point or initial boiling point and boiling range | 354.3 °C at 1 atm |
| Flammability | Non-flammable. |
| Lower and upper explosion limit | Not established |
| Flash point | 173 °C +/- 1 °C |
| Auto-ignition temperature | 261 °C +/- 5 °C |
| Decomposition temperature | Not established |
| pH | Not established |
| Kinematic viscosity | 6.1 mPa•s at 20 °C |
| Solubility | Water: Insoluble < 0.023 mg/l |
| Partition coefficient: n-octanol/water (log value) | Log Kow: 6.2 at 25 °C |
| Vapour pressure | 4.2 mbar at 25 °C 420 Pa at 25 °C 3.6 mbar at 20 °C |
| Density and/or relative density | 0.8881 g/cm ³ at 20 °C |
| Relative vapour density | Not established |
| Particle characteristics | Not established |

9.2 Other information

None known

SECTION 10: STABILITY AND REACTIVITY

| | |
|---|--|
| 10.1 Reactivity | Stable under normal conditions. Reacts with - Strong oxidising agents, strong bases (Forms methanol). |
| 10.2 Chemical stability | Stable under normal conditions. |
| 10.3 Possibility of hazardous reactions | Hazardous polymerisation will not occur. |
| 10.4 Conditions to avoid | Keep away from heat, sources of ignition and direct sunlight. |
| 10.5 Incompatible materials | Keep away from oxidising agents. Strong acids and Alkalis. |
| 10.6 Hazardous decomposition products | Decomposes in a fire giving off toxic fumes: A mixture of solid and liquid particulates and gases including unidentified organic and inorganic compounds, Carbon monoxide, Carbon dioxide, Hydrocarbons. |

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 Acute toxicity - Ingestion

Based upon the available data, the classification criteria are not met.
LD50 (oral,rat) mg/kg: >5000 AFNOR NF T 03-021

Acute toxicity - Inhalation Acute toxicity - Skin contact

Based upon the available data, the classification criteria are not met.
Based upon the available data, the classification criteria are not met.
LD50 (skin,rabbit) mg/kg: >2000 EPA OPPTS 870.1200

Skin corrosion/irritation

Based upon the available data, the classification criteria are not met.
Mean erythema score: <0.33 (rabbit) (OECD 404)
Mean edema score: 0 (rabbit) (OECD 404)

SAFETY DATA SHEET



Revision: 6 February 2023 Version: 006

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878

Fame Tallow V3023

| | |
|---|---|
| Serious eye damage/irritation | Based upon the available data, the classification criteria are not met. Mean eye Irritation score – Cornea: 0 Iris: 0 Conjunctivae: 0.16 Chemosis: 0 (rabbit) (OECD 405) |
| Respiratory or skin sensitisation | Based upon the available data, the classification criteria are not met. Sensitisation (guinea pig) – Negative (OECD 406) |
| Germ cell mutagenicity | Based upon the available data, the classification criteria are not met. In vitro: No evidence of mutagenic effects. Bacteria (OECD 471) In vivo: No evidence of mutagenic effects. Hamster (OECD 475) |
| Carcinogenicity | Based upon the available data, the classification criteria are not met. Weight of evidence approach. |
| Reproductive toxicity | Based upon the available data, the classification criteria are not met. Reproductive toxicity: NOAEC >1000 mg/kg bw/day (rat) (OECD 422) Developmental toxicity: Negative (rabbit) (OECD 414) |
| STOT - Single Exposure | Based upon the available data, the classification criteria are not met. |
| STOT - Repeated Exposure | Based upon the available data, the classification criteria are not met. Ingestion: NOAEC >1000 mg/kg bw/day (rat) (OECD 422) Inhalation: No data available Skin contact: No data available |
| Aspiration hazard | Based upon the available data, the classification criteria are not met. |
| 11.2 Information on other hazards | |
| 11.2.1 Endocrine disrupting properties | This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria. |
| 11.2.2 Other information | None known |

SECTION 12: ECOLOGICAL INFORMATION

| | |
|--|---|
| 12.1 Toxicity | Based upon the available data, the classification criteria are not met. EC50 Brachydanio rerio (zebra-fish) > 100 000 mg/L (48 hour) (OECD 203) |
| 12.2 Persistence and degradability | Readily biodegradable (according to OECD criteria). Degradation rate (%): 75 |
| 12.3 Bioaccumulative potential | The substance has low potential for bioaccumulation. Bioconcentration factor (BCF): 2.41 |
| 12.4 Mobility in soil | The product has low mobility in soil. Insoluble in water. |
| 12.5 Results of PBT and vPvB assessment | Not classified as PBT or vPvB. None of the substances in this product fulfil the criteria for being regarded as a PBT or vPvB substance. |
| 12.6 Endocrine disrupting properties | This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria. |
| 12.7 Other adverse effects | None known |

SECTION 13: DISPOSAL CONSIDERATIONS

| | |
|--|--|
| 13.1 Waste treatment methods | Dispose of this material and its container as hazardous waste. Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. Disposal should be in accordance with local, state or national legislation. Containers of this material may be hazardous when empty since they retain product residue. Containers must not be punctured or destroyed by burning, even when empty. Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company. Waste code: Fuel Oil (130701) and Diesel fuel (150110). |
| Waste classification according to Directive 2008/98/EC (Waste Framework Directive) | Not classified |

SECTION 14: TRANSPORT INFORMATION

Not classified according to the United Nations 'Recommendations on the Transport of Dangerous Goods'.

| | ADR/RID | IMDG | IATA/ICAO |
|-------------------------------------|----------------|---------------|------------------|
| 14.1 UN number or ID number | None assigned | None assigned | None assigned |
| 14.2 UN proper shipping name | None assigned | None assigned | None assigned |

SAFETY DATA SHEET



Revision: 6 February 2023 Version: 006

Fame Tallow V3023

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878

| | | | | |
|------|---|---------------------------|---------------------------------------|---------------------------|
| 14.3 | Transport hazard class(es) | None assigned | None assigned | None assigned |
| 14.4 | Packing group | None assigned | None assigned | None assigned |
| 14.5 | Environmental hazards | Not classified | Not classified as a Marine Pollutant. | Not classified |
| 14.6 | Special precautions for user | See Section: 2 | | |
| 14.7 | Maritime transport in bulk according to IMO instruments | No information available. | No information available. | No information available. |
| 14.8 | Additional information | None known | | |

SECTION 15: REGULATORY INFORMATION

| | | |
|--------|--|---|
| 15.1 | Safety, health and environmental regulations/legislation specific for the substance or mixture | |
| 15.1.1 | EU regulations | |
| | Authorisations and/or restrictions on use | Not restricted |
| 15.1.2 | National regulations | |
| | Germany | Water hazard class: 1 |
| 15.2 | Chemical Safety Assessment | A chemical safety assessment is not required under REACH. |

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: New SDS Regulation 2020/878 format, all sections have been updated to include new information. Please review SDS with care.

References:

Existing Safety Data Sheet (SDS).

Existing ECHA registration(s) for Fatty acids, C14-18 and C16-18-unsatd., Me esters (CAS No. 67762-26-9).

EU classification and labelling inventory for Fatty acids, C14-18 and C16-18-unsatd., Me esters (CAS No. 67762-26-9).

EU Classification: This Safety Data Sheet was prepared in accordance with EC Regulation (EC) 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878

Legend

| | |
|-------|--|
| ADR | ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ADN | ADN: European Agreement on the International Transport of Dangerous Goods by Inland Waterways |
| BCF | Bioconcentration Factor |
| CAS | Chemical Abstracts Service |
| CLP | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures |
| DNEL | Derived no effect level |
| EC | European Community |
| ECHA | European Chemicals Agency |
| EU | European Union |
| IATA | IATA: International Air Transport Association |
| ICAO | ICAO: International Civil Aviation Organization |
| IMDG | IMDG: International Maritime Dangerous Goods |
| LC50 | Lethal Concentration at which 50% of the population is killed |
| LD50 | Lethal Dose at which 50% of the population is killed |
| LTEL | Long term exposure limit |
| NOAEC | No Observed Adverse Effect Concentration |
| OECD | Organisation for Economic Cooperation and Development |
| PBT | PBT: Persistent, Bioaccumulative and Toxic |
| PNEC | Predicted No Effect Concentration |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| RID | RID: Regulations concerning the international railway transport of dangerous goods |
| STEL | Short term exposure limit |
| vPvB | vPvB: very Persistent and very Bioaccumulative |

Training advice: Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

SAFETY DATA SHEET



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Fame Tallow V3023

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Annex to the extended Safety Data Sheet (eSDS)

Not applicable