

Material safety data sheet

According to EU Regulation 1907/2006 in the current version

STEARIC ACID

1. Identification of the substance/mixture and company

Trade name: Stearic Acid
I.N.C.I. Stearic acid
CAS No.: 67701-03-5
EC No.: 266-928-5
REACH pre-registration No. : n.a.
Utilization: Raw material for Cosmetics industry, Chemical industry
Supplier company identification: Elemental SRL, Piața Cazărmii no.15, 410188-Oradea, jud.Bihor, Romania
Tel/Fax: +40259-436.755, www.ellemental.com
Emergency: RO: număr național pentru cazuri de urgență: 021 3183606 Institutul de Sănătate Publică București.
International emergency number: +49 180 2273-112

2. Hazards Identification

2.1 Classification of the substance or mixture

This product is classified as not hazardous according to regulation (EC) 1272/2008 [GHS] and European Regulation 67/548/CEE or 1999/45/EC, as amended

2.2 Label elements

Label in accordance with Regulation (EC) No 1272/2008.

GHS Label None.

Signal Word None.

Contains None.

Hazards Statement None.

Signal Word None.

Precautionary Statements None.

Supplementary Precautionary Statements None.

2.3 Other hazards

No information available

3. Declaration of ingredients

3.1. Substances

Fatty acids, C16-18 100%

This product is not clasified as hazardous to health or environment according to GHS.

3.2. Mixtures

Not Applicable

4. First aid measures

4.1 First-aid measures

Description of first aid measures

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General information: No special measures required.

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact:

Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.

After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

Information for doctor:

Most important symptoms and effects, both acute and delayed No further relevant information available.

Indication of any immediate medical attention and special treatment needed

4.2 Most important symptoms/effects

No typical symptoms and effects known.

4.3 Need to get medical advice

Advice to physician: symptomatic treatment is advised.

5. Fire fighting measures

5.1 Extinguishing media

- Suitable extinguishing media: to fight fire use alcohol resistant foam, carbon dioxide, dry powder.
- Unsuitable extinguishing media: to avoid frothing, do not use water jet.

5.2 Specific hazard arising from the chemical

No further relevant information available.

5.3 Special protective action for fire-fighters

- Protective equipment: no specific recommendations.
- Other information: avoid contact with oxidizing agents. Cool closed containers with water.

6. Accidental release measures

6.1 Personal precautions

Usual precautions for handling chemicals should be observed.

6.2 Environmental precautions

No specific recommendations.

6.3 Methods and materials for containment and cleaning up

Collect as much as possible in a container for disposal.

6.4 Reference to other sections

Refer to protective measures listed in sections 7 and 8.

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7. Handling and storage

7.1 Precautions for safe handling

- Handling: usual precautions for handling chemicals should be observed.
- Fire and explosion prevention: no specific recommendation. Avoid contact with oxidizing agents.

7.2 Conditions of storage including incompatibilities

- Storage requirements: to maintain quality store at ambient temperature. Avoid elevated temperatures.

7.3 Specific use(s) No further relevant information available..

8. Exposure controls / personal protection

8.1 Control parameters

Control parameters

Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

DNELs

Long-term.

Fatty acids, C16-18

Dermal DNEL 10,0 mg/kg bw/d (workers)

Inhalative DNEL 17,632 mg/m³ (workers)

PNECs Not required.

8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Respiratory protection: Suitable respiratory protective device recommended.

Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Safety glasses

9. Physical and chemical properties

9.1 Physical and chemical properties

- Appearance at 20°C: solid white granules
- Odour: faint

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- pH value/range: not applicable
- Melting point/range: 53-63°C
- Boiling point/range: 200 °C
- Flash point: > 180 °C closed cup
- Evaporation rate: no data available
- Flammability (solid, gas): not flammable
- Flammability: not flammable
- Explosion limits: no data available
- Vapour pressure at 20 °C: < 0,01 hPa
- Vapour density: no data available
- Density at 20°C: 0.84-0.90 g/cm3
- Solubility: insoluble in water
- Partition coefficient n-octanol-water: ca. 7,05 - 8,23 log Pow
- Autoignition temperature: ~350 °C
- Decomposition temperature: no data available
- Viscosity at 20°C: not determined
- Kinematic at 70 °C: ca. 12 mm²/s (ASTM D445)
- Explosive properties: none known
- Oxidizing properties: none known

9.2 Other information

No information available

10. Stability and reactivity

- 10.1 Reactivity Stable under normal operational procedure.
- 10.2 Chemical stability No decomposition if stored and handled properly.
- 10.3 Possible dangerous reactions Will not occur.
- 10.4 Conditions to avoid Temperature > 200 °C
- 10.5 Materials to avoid Avoid contact with strong oxidizing agents.
- 10.6 Hazardous decomposition products Irritant gases/vapours, Carbon monoxide and carbon dioxide

11. Toxicological information

11.1 Information about toxicological effects

Acute toxicity:

Oral LD50 > 5000 mg/kg bw (Rat) (OECD 401)

Dermal LD50 > 2000 mg/kg bw (Rabbit) (OECD 434)

Skin corrosion/irritation No irritating effect.

Serious eye damage/irritation No irritating effect.

Respiratory or skin sensitisation No sensitising effects known.

Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

The substance is not subject to classification according to the latest version of the EU lists.

Repeated dose toxicity

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67701-03-5 Fatty acids, C16-18

Oral NOAEL (subchronic) 1000 mg/kg bw/d (Rat) (OECD 422, RA CAS # 112-85-6, C22)

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity: No further relevant information available.

Mutagenicity: Negative

Toxicity to reproduction: No further relevant information available

12. Ecological information

12.1 Toxicity

LC50 (48h) (static) > 1000 mg/L (fish) (DIN 38412/15)

12.2 Persistence and degradability

Easily biodegradable

BCF = 225 L/kg

Behaviour in environmental systems:

12.3 Bioaccumulative potential Does not accumulate in organisms

Mobility in soil

Additional ecological information:

General notes:

WGK Germany: nwg

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

12.4 Results of PBT and vPvB assessment

PBT: No vPvB: No

12.5 Other adverse effects No further relevant information available

13. Disposal considerations

13.1 Waste treatment methods

Waste disposal methods: Re-use/recycling of waste highly recommended. Disposal according to local regulations.

Contaminated packaging: Disposal according to local regulations.

14. Transport information

Not classified as dangerous substance.

Not classified under IMDG or ADR regulations.

Warning icon Road (ADR), Rail (RID), Sea (IMDG) and Air (ICAO), transport not restricted in drums or food tankers.

Shipping Name Not Applicable.

UN Number (Road) Not Applicable.

ADR Class Not Applicable.

Hazard Number (ADR) Not Applicable.

Hazchem Code Not Applicable.

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UN Number (Sea) Not Applicable.
IMDG Class Not Applicable.
IMDG Pack GR. Not Applicable.
EMS Not Applicable.
UN Number (Air) Not Applicable.
Air Class Not Applicable.
Air Pack GR. Not Applicable.
Transport in bulk according to Annex II of MARPOL
73/78 and the IBC Code Product name : Fatty acids, C16+
Pollution category: Y
Ship type: 2

15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture
GHS label elements Not applicable
Hazard pictograms Not applicable
Signal word Not applicable
Hazard statements Not applicable
Other regulations, limitations and prohibitive regulations
Positive Country Substance Listing for CAS No. 67701-03-5:
USA (TSCA), Canada (DSL), Europe (EINECS, REACH) : 266-928-5, China (IECSC), Korea (ECL) : KE-14228,
Japan (ENCS) : 2-608, New Zealand (NZIOC), Australia (AICS), Philippines (PICCS) & Taiwan (CSNN).
Chemical safety assessment: A Chemical Safety Assessment has been carried out.

16. Additional information

16.1 Abbreviations:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS: Chemical Abstracts Service (division of the American Chemical Society).
CLP: Classification, Labeling, Packaging.
DNEL: Derived No Effect Level.
EINECS: European Inventory of Existing Commercial Chemical Substances.
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.
IATA: International Air Transport Association.
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO: International Civil Aviation Organization.
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG: International Maritime Code for Dangerous Goods.
INCI: International Nomenclature of Cosmetic Ingredients.
LTE: Long-term exposure.
PNEC: Predicted No Effect Concentration.

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RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

STE: Short-term exposure.

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Disclaimer:

This material safety data sheet does not constitute a guarantee of the properties of the product and is not a contractual legal report. The information is given in good faith on the basis of our best knowledge of the product at the indicated time. However, we cannot accept responsibility or liability for any consequences arising from its use, no warranty for correctness and completeness is given. We caution the users against the incurred possible risks when the product is used at other ends than the use for which it was initially planned. It is the user's responsibility during handling, storage and product use to consult the main regulatory texts in force regarding workers and environment protection.