

# SAFETY DATA SHEET

## STEARIC ACID

### 1. PRODUCT INFORMATION AND COMPANY IDENTIFICATION

Product Name: Stearic Acid

Company: Natural Bulk Supplies, 318 Half Day Rd, # 348,  
Buffalo Grove, IL 60089 Phone: 847-489-7180

Emergency Contact: Infotrac: 800-535-5053(North America) +1-352-323-3500 (International)

### 2. HAZARD IDENTIFICATION

#### Classification of the substance or mixture

The substance is not classified according to the Globally Harmonized System (GHS).

#### Classification according to Directive 67/548/EEC or Directive 1999/45/EC Not applicable.

Information concerning particular hazards for human and environment: Not applicable.

#### Label elements

##### GHS label elements

Void

##### Hazard pictograms

Void

##### Signal word

Void

##### Hazard statements

Void

##### Other hazards

Void

##### Results of PBT and vPvB assessment

##### PBT:

Not applicable

##### vPvB:

Not applicable

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical characterization: CAS No. 67701-03-5; Fatty Acids, C16-C18**

INCI NAME	CAS NO.	CONCENTRATION (%)
Lauric acid	143-07-7	< 5 %
Myristic Acid	544-63-8	< 10 %
Palmitic Acid	57-10-3	15 – 80 %
Stearic Acid	57-11-4	25 – 80 %
Oleic Acid	112-80-1	< 10 %

### 4. FIRST AID MEASURES

#### Description of first aid measures

##### General information:

Immediately remove any clothing soiled by the product.

##### After inhalation:

Supply fresh air; consult doctor in case of complaints.

##### After skin contact:

Generally the product does not irritate the skin.

##### After eye contact:

Rinse opened eye for several minutes under running water. Then consult a doctor.

##### After swallowing:

If symptoms persist consult doctor.

##### 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

No further relevant information available.

### 5. FIRE FIGHTING MEASURES

#### Extinguishing media

#### Suitable extinguishing agents:

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**Special hazards arising from the substance or mixture**

Under certain fire conditions, traces of other toxic gases cannot be excluded.

**Advice for firefighters Protective equipment:**

Wear self-contained respiratory protective device. Wear fully protective suit.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

Use respiratory protective device against the effects of fumes/dust/aerosol. Wear protective equipment. Keep unprotected persons away.

**Environmental Precautions:**

Do not allow product to reach sewage system or any water course.

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

Keep away from heat and direct sunlight. Store in cool, dry place in tightly closed receptacles. Open and handle receptacle with care.

**Information about fire – and explosion protection:**

Keep ignition sources away – Do not smoke. Keep respiratory protective device available.

**Conditions for safe storage, including any incompatibilities Storage:**

Requirements to be met by storerooms and receptacles: Store only in the original receptacle. Information about storage in one common storage facility: Store away from oxidizing agents

**Further information about storage conditions:**

Keep container tightly sealed. Protective from heat and direct sunlight.

**Specific end use(s)**

No further relevant information available.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Additional information about design of technical facilities:**

No further data: see item 7.

**Control parameters**

**Ingredients with limit values that require monitoring at the workplace:**

Not required.

**DNELs**

Dermal	DNEL	10 mg/kg bw/day (-) (Workers)
Inhalative	DNEL	17.632 mg/m <sup>3</sup> (-) (Workers)

**Additional information:**

The lists valid during the making were used as basis.

**Exposure controls Personal protective equipment:**

**General protective and hygienic measures:**

Keep away from food stuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work.

Be sure to clean skin thoroughly after work and before breaks.

**Respiratory protection:**

Suitable respiratory protective device recommended.

**Protection of hands:**

**Protective gloves**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Avoid direct contact with the chemical/ the product/ the preparation by organizational measures. Use gloves of stable material (e.g. Nitrile) – if necessary tricoted to improve the wear ability.

**Material of gloves**

Nitrile rubber, NBR Chloroprene rubber, CR

**Penetration time of glove material**

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

**Eye protection:**

Tightly sealed goggles

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Information on basic physical and chemical properties

Form:	Solid
Color:	White
Odor:	Faint fatty smell
Odor threshold:	Not determined.
pH-value	Not applicable.
Melting point/Melting range:	53 – 63 °C

Boiling point/Boiling range:	200 – 240 °C
Flash point:	180 – 202 °C
Flammability (solid, gaseous):	Product is not flammable.
Ignition temperature:	Not determined
Decomposition temperature:	Not determined.
Self-igniting:	Ca 350 °C
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits: Lower:Upper:	Not determined.Not determined.
Vapor pressure at 25 °C	0,0000506 hPa
Density at 20 °C:	~ 0,85 g/cm <sup>3</sup>
Relative density	Not determined.
Vapor density	Not applicable.
Evaporation rate	Not applicable.
Solubility in / Miscibility with water at 20 °C	< 0,05 g/l
Partition coefficient (n-octanol/water):	7,05 – 8.23 log POW
Viscosity:	
Dynamic:	Not applicable.
Kinematic at 70°C:	12 mm <sup>2</sup> /s
Other information	No further relevant information available.

## 10. STABILITY AND REACTIVITY

### Reactivity

No further relevant information available.

### Chemical stability

Stable at environment temperature

### Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

### Possibility of hazardous reactions

Reacts with oxidizing agents

### Conditions to avoid

See Section 7 for information on safe handling

### Incompatible materials:

See Section 7 for information on safe handling

### Hazardous decomposition products: Irritant gases/vapours

Carbon monoxide and carbon dioxide.

## 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects

#### Acute toxicity

Oral	LD50	> 5000 mg/kg bw/day (-) (CAS 57-10-3)
Inhalative	LC50	> 0,1521 mg/L (-) (CAS 127-07-2)

#### Primary irritant effect:

#### Skin corrosion/irritation

No irritant effect.

#### Serious eye damage/irritation

No irritating effect.

#### Respiratory or skin sensitization

No sensitizing effects known.

#### Additional toxicological information:

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

#### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

#### Carcinogenicity

Based on available data, the classification criteria are not met.

#### Reproductive toxicity

Oral	NOAEL (teratogenicity) NOAEL (fertility)	1000 mg/kg bw/d (-) 1000 mg/kg bw/d (-)
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STOT-single exposure Based on available data, the classification criteria are not met.

STOT-repeated exposure

Oral	NOAEL (subchronic)	1000 mg/kg bw/day (-)
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## 12. ECOLOGICAL INFORMATION

### Aquatic toxicity:

EC50 (48h)	> 4,8 mg/L (daphnia magna)
EC50 (72H)	> 0,9 mg/L (pseudokirchnerella subcapitata)
LC50 (48h)	> 1000 mg/L (Ieciscus idus)
NOEC (21D)	> 0,22 mg/L (daphnia magna)

### Persistence and degradability

Readily biodegradable

**Behavior in environmental systems:**

**Bioaccumulative potential**

Does not accumulate in organisms

**Mobility in soil**

No further relevant information available.

**Additional ecological information:**

**General notes:**

Not known to be hazardous to water.

**Results of PBT and vPvB assessment**

**PBT:**

No

**vPvB:**

No

**Other adverse effects**

No further relevant information available.

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods Recommendation**

Must be specially treated adhering to official regulations.

**Uncleaned packaging Recommendation:**

Disposal must be made according to official regulations.

**14. TRANSPORT INFORMATION**

**Un-Number ADR, ADN, IMDG, IATA**

Not regulated

**Un proper shipping name ADR, ADN, IMDG, IATA**

Not regulated

**Transport hazard class(es) ADR, ADN, IMDG, IATA Class**

Not regulated

**Packing group ADR, IMDG, IATA**

Not regulated

**Environmental hazards:**

Not applicable

**Special precautions for user**

Not applicable

**Transport in bulk according to Annex II of Marpol and the IBC Code**

**Product name:**

Fatty Acids, C16 – C18

**Pollution category:**

Y

**Ship type:**

2

**UN “Model Regulation”:**

Not regulated

**15. REGULATORY INFORMATION**

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

**GHS label elements**

Void

**Hazard pictograms**

Void

**Signal word**

Void

**Hazard statements**

Void

**Directive 2012/18/EU**

**Named dangerous substances – ANNEX I Substance is not listed.**

**National regulations:**



**Other regulations, limitations and prohibitive regulations**

Positive Country Substance Listing

USA (TSCA), Canada (DSL), Europe (EINECS), Japan (ENCS), Australia (AICS), Korea (ECL), China (IECSC), Philippines (PICCS), New Zealand (NZIOC), Taiwan (CSNN)

**Chemical safety assessment:**

A Chemical Safety Assessment has been carried out.

**16. OTHER INFORMATION**

**All statements, technical information and recommendations contained herein are based on tests and data which Natural Bulk Supplies believes to be currently reliable, but this accuracy or completeness thereof is not guaranteed and no warranty of any kind is made with respect thereto. This information is not intended as a license to operate under or a recommendation to practice or infringe any patent of this company or others covering any process, composition of matter or use. Since we shall have no control of the use of the product described here in, we assume no Liability for loss or damage incurred from the proper or improper use of such product.**