

Trade name: Stearic acid ES42

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

### 1.1 Product identifier

Trade name

**Stearic acid ES42 /granules/**

Substance name Fatty acids, C16-18  
REACH registration no. 01-2119543709-29-\*\*\*\*

**Identification numbers**

CAS no. 67701-03-5  
EC no. 266-928-5

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

**Relevant identified uses of the substance or mixture**

Additive in detergents, body washing products, cosmetics and other industrial/commercial uses.

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification information**

This product does not meet the classification and labelling criteria given in the Regulation (EC) No 1272/2008 (CLP).  
This product does not meet the classification and labelling criteria given in the Dangerous Substances Directive 67/548/EC (DSD)

### 2.2 Label elements

Not relevant

### 2.3 Other hazards

No data available.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

**Chemical characterization**

Substance name Fatty acids, C16-18

**Identification numbers**

CAS no. 67701-03-5  
EC no. 266-928-5

# EC safety data sheet

## Components to be mentioned according to Regulation (EU) No. 453/2010, section 3.1

Substance name	Additional information	
CAS / EC / Index / REACH no	Concentration	%
palmitic acid, pure	component	
57-10-3 200-312-9 - 01-2119538235-41-****	> 15.00 - < 80.00	%-b.w.
Stearic acid	component	
57-11-4 200-313-4 - 01-2119543894-28-****	> 25.00 - < 80.00	%-b.w.

### 3.2 Mixtures

Not applicable. The product is not a mixture.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing.

#### After inhalation

Remove affected person from the immediate area. Ensure supply of fresh air.

#### After skin contact

In case of contact with skin wash off immediately with soap and water.

#### After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Seek medical assistance.

#### After ingestion

Rinse out mouth and give plenty of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person.

### 4.2 Most important symptoms and effects, both acute and delayed

No data available.

### 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 jet; Dry chemical extinguisher; Carbon dioxide; Alcohol-resistant foam

#### Unsuitable extinguishing media

High power water jet

### 5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Carbon dioxide (CO<sub>2</sub>); Carbon monoxide (CO); Combustion products of this material have to be classed invariably as respiratory poison.

### 5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing.

# EC safety data sheet

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

Refer to protective measures listed in sections 7 and 8. Avoid contact with skin, eyes and clothing. High risk of slipping due to leakage/spillage of product.

#### For emergency responders

No data available. Personal protective equipment (PPE) - see Section 8.

### 6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

### 6.3 Methods and material for containment and cleaning up

Take up mechanically. When picked up, treat material as prescribed under heading "Disposal considerations". Avoid raising dust.

### 6.4 Reference to other sections

No data available.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Advice on safe handling

Provide good ventilation of working area (local exhaust ventilation, if necessary). Avoid eye, skin and clothing contact. Avoid the formation and deposition of dust.

#### General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Avoid contact with eyes and skin. Remove soiled or soaked clothing immediately. Do not inhale dust. Provide eye wash fountain in work area.

#### Advice on protection against fire and explosion

Keep away from sources of ignition - refrain from smoking. Take precautionary measures against static charges. Dust can form an explosive mixture with air.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Technical measures and storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place. Protect from heat and direct sunlight.

#### Requirements for storage rooms and vessels

Keep container tightly closed.

#### Advice on storage assembly

Do not store together with: Alkalies; Oxidizing agents

### 7.3 Specific end use(s)

No data available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### DNEL and PNEC values

##### DNEL values (worker)

No	Substance name	Exposure time	Effect	CAS / EC no	Value
1	Fatty acids, C16-18			67701-03-5 266-928-5	
	dermal	Long term (chronic)	systemic	10	mg/kg/day
	inhalative	Long term (chronic)	systemic	17.632	mg/m <sup>3</sup>

# EC safety data sheet

## DNEL value (consumer)

No	Substance name	Exposure time	Effect	CAS / EC no
	Route of exposure			Value
1	Fatty acids, C16-18			67701-03-5 266-928-5
	oral	Long term (chronic)	systemic	2.5 mg/kg/day
	dermal	Long term (chronic)	systemic	5 mg/kg/day
	inhalative	Long term (chronic)	systemic	4.348 mg/m <sup>3</sup>

## 8.2 Exposure controls

### Appropriate engineering controls

No data available.

### Personal protective equipment

#### Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of dust formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

#### Eye / face protection

Tightly fitting safety glasses (EN 166).

#### Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material butyl rubber

Appropriate Material nitrile rubber

#### Other

Normal chemical work clothing.

### Environmental exposure controls

No data available.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Form/Colour</b>
solid
<b>Odour</b>
No data available
<b>Odour threshold</b>
No data available
<b>pH value</b>
No data available
<b>Boiling point / boiling range</b>
Value 200 - 240 °C
<b>Melting point / melting range</b>
Value 53 - 63 °C

## EC safety data sheet

<b>Decomposition point / decomposition range</b>			
No data available			
<b>Flash point</b>			
Value	180	- 202	°C
Method	ASTM D 92		
<b>Auto-ignition temperature</b>			
Value		350	°C
<b>Oxidising properties</b>			
not oxidizing			
<b>Explosive properties</b>			
Product does not present an explosion hazard.			
<b>Flammability (solid, gas)</b>			
not flammable			
<b>Lower flammability or explosive limits</b>			
No data available			
<b>Upper flammability or explosive limits</b>			
No data available			
<b>Vapour pressure</b>			
No data available			
<b>Vapour density</b>			
No data available			
<b>Evaporation rate</b>			
No data available			
<b>Relative density</b>			
No data available			
<b>Density</b>			
Value	0.8	- 0.9	g/m³
Reference temperature		20	°C
<b>Solubility in water</b>			
Value	<	0.05	mg/l
Reference temperature		20	°C
Reference substance	CAS 57-10-3		
<b>Solubility(ies)</b>			
No data available			
<b>Partition coefficient: n-octanol/water</b>			
log Pow	7.05	- 8.23	
<b>Viscosity</b>			
No data available			

2 Other information

<b>Other information</b>			
No data available.			

## EC safety data sheet

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

No data available.

#### 10.2 Chemical stability

No data available.

#### 10.3 Possibility of hazardous reactions

No data available.

#### 10.4 Conditions to avoid

Heat; Protect from sun.

#### 10.5 Incompatible materials

Alkalis; Oxidizing agents

#### 10.6 Hazardous decomposition products

No data available.

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

Acute oral toxicity			
LD50	>	5000	mg/kg
Species	rat		
Reference substance	CAS 57-10-3		
Method	OECD 401		
Acute dermal toxicity			
LD50	>	2000	mg/kg
Species	rabbit		
Reference substance	CAS 57-11-4		
Method	OECD 434		
Acute inhalational toxicity			
LC50	>	0.1621	mg/l
Duration of exposure		4	h
Species	rat		
Reference substance	CAS 124-07-2		
Skin corrosion/irritation			
Duration of exposure		4	h
Species	rabbit		
Reference substance	CAS 57-10-3		
Method	OECD 404		
Evaluation	non-irritant		
Serious eye damage/irritation			
Species	rabbit		
Reference substance	CAS 57-10-3		
Method	OECD 405		
Evaluation	non-irritant		
Respiratory or skin sensitisation			
Route of exposure	Skin		
Species	guinea pig		
Reference substance	CAS 334-48-5		
Method	Buehler		
Evaluation	non-sensitizing		

## EC safety data sheet

<b>Germ cell mutagenicity</b>			
No data available			
<b>Reproduction toxicity</b>			
Route of exposure	oral		
NOAEL	1000	mg/kg	
Duration of exposure	42	d	
Species	rat		
Reference substance	CAS 112-85-6		
Method	OECD 422		
<b>Carcinogenicity</b>			
No data available			
<b>STOT-single exposure</b>			
No data available			
<b>STOT-repeated exposure</b>			
No data available			
<b>Aspiration hazard</b>			
No data available			
<b>Other information</b>			
Exercise customary precautions when handling chemicals.			

## SECTION 12: Ecological information

### 12.1 Toxicity

Toxicity to fish (acute)			
LD50	>	1000	mg/l
Duration of exposure		48	h
Species	Leuciscus idus		
Method	OECD 203		
Toxicity to fish (chronic)			
No data available			
Toxicity to Daphnia (acute)			
EC50	>	4.8	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Reference substance	CAS 57-10-3		
Method	OECD 202		
Toxicity to Daphnia (chronic)			
No data available			
Toxicity to algae (acute)			
EC50	>	0.9	mg/l
Duration of exposure		72	h
Species	Selenastrum capricornutum		
Reference substance	CAS 57-10-3		
Method	OECD 201		

## EC safety data sheet

<b>Toxicity to algae (chronic)</b>
No data available

<b>Bacteria toxicity</b>		
EC10	883	mg/l
Duration of exposure	18	h
Species	Pseudomonas putida	
Reference substance	CAS 57-11-4	

### 12.2 Persistence and degradability

<b>Biodegradability</b>	
Evaluation	readily biodegradable

### 12.3 Bioaccumulative potential

<b>Partition coefficient: n-octanol/water</b>		
log Pow	7.05	- 8.23

### 12.4 Mobility in soil

No data available.

### 12.5 Results of PBT and vPvB assessment

No data available.

### 12.6 Other adverse effects

No data available.

### 12.7 Other information

<b>Other information</b>
Do not discharge product unmonitored into the environment.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

#### Packaging

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.



# EC safety data sheet

## SECTION 14: Transport information

### 14.1 Transport ADR/RID/ADN

The product is not subject to ADR/RID/ADN regulations.

### 14.2 Transport IMDG

The product is not subject to IMDG regulations.

### 14.3 Transport ICAO-TI / IATA

The product is not subject to ICAO-TI / IATA regulations.

### 14.4 Other information

No data available.

### 14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

### 14.6 Special precautions for user

No data available.

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

Not relevant

## SECTION 15: Regulatory information

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

**Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances**

Remarks

Annex I, part 1 + 2: not mentioned. With regard to possibly appropriate decomposition products see Chapter 10.

### 15.2 Chemical safety assessment

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

## SECTION 16: Other information

### Sources of key data used to compile the data sheet:

EC Directive 67/548/EC resp. 1999/45/EC as amended in each case.

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EU

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

This information is based on our present state of knowledge and experience.

The security data sheet describes products with a view to the security requirements.

However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.

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