

# Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name/designation Stearic acid Product No. PRD5274 Substance name Stearic acid CAS No. 57-11-4

INDEX no.

REACH registration No. Not yet communicated down the supply chain.

other means of identification Octadecanoic acid Octadecylic acid

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

Relevant identified uses for laboratory use and chemical production.

1.3 Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor)

Better Equipped,

Wrenbury Business Park,

Wrenbury Road,

Wrenbury,

Nantwich, Cheshire,

CW5 8EB, UK

Telephone +44 (0) 800 9707142 +44 (0) 800 066 4443 Fax

E-mail address sales@betterequipped.co.uk

1.4 Emergency telephone

Telephone +44 (0)1270 781238

- 2. Hazards identification
- 2.1 Classification of the substance or mixture
- 2.1.1 Classification according to Regulation (EC) No. 1272/2008 [CLP]

hazard classes and hazard	Hazard Statements	classification procedure	remark
categories			
Skin irritation, category 2	H315		

## 2.1.2 Classification according to Directive 67/548/EEC or 1999/45/EC

This substance is not classified as dangerous according to 67/548/EEC.

## 2.2 Label elements

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



Signal word Warning

Hazard Statements

H315 Causes skin irritation.

Precautionary statements

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.

## 2.2.2 Labelling (67/548/EEC or 1999/45/EC)

Hazard symbols:

not applicable

R-phrases not applicable

S-phrases not applicable

## 2.3 Other hazards

SVHC

## 3. Composition/ Information on ingredients

Molecular formula C18H36O2
Molecular weight (g/mol) 284.48 g/mol
CAS No. 57-11-4
EC No 200-313-4

INDEX no.

#### 4. First-aid measures

#### 4.1 General information

When in doubt or if symptoms are observed, get medical advice. If unconscious place in recovery position and seek medical advice. Never give anything by mouth to an unconscious person or a person with cramps. Change contaminated, saturated clothing. Do not leave affected person unattended.

#### 4.2 After inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. In case of respiratory tract irritation, consult a physician.

#### 4.3 In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. Remove contaminated, saturated clothing immediately. In case of skin reactions, consult a physician.

## 4.4 After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye. Remove contact lenses, if present and easy to do. Continue rinsing.

#### 4.5 After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do not induce vomiting. Give nothing to eat or drink.

## 4.6 Self-protection of the first aider

First aider: Pay attention to self-protection!

#### 4.7 Information to physician:

Symptoms No data available
Hazards No data available
Treatment No data available

#### 5. Firefighting measures

#### 5.1 Suitable extinguishing media

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

## 5.2 Extinguishing media which must not be used for safety reasons:

no restriction

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

In case of fire may be liberated: Carbon dioxide (CO2) Carbon monoxide Sulphur oxides

## 5.4 Advice for firefighters

DO NOT fight fire when fire reaches explosives. In case of fire: Wear self-contained breathing apparatus.

#### 5.5 Additional information

Do not allow run-off from fire-fighting to enter drains or water courses. Do not inhale explosion and combustion gases. Use caution when applying carbon dioxide in confined spaces. Carbon dioxide can displace oxygen. Use water spray jet to protect personnel and to cool endangered containers.

#### Accidental release measures

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

Avoid generation of dust. Do not breathe dust. Provide adequate ventilation. Use personal protection equipment.

#### 6.2 Environmental precautions

Do not allow to enter into surface water or drains.

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

Spilled product must never be returned to the original container for recycling. Soak up inert absorbent and dispose as waste requiring special attention. Collect in closed and suitable containers for disposal.

#### 6.4 Additional information

Clear spills immediately.

#### 7. Handling and storage

#### 7.1 Precautions for safe handling

Avoid: Inhalation. Avoid contact with skin and eyes. Use extractor hood (laboratory). If handled uncovered, arrangements with local exhaust ventilation have to be used. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means. Usual measures for fire prevention.

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

storage temperature 2-8°C

Keep container tightly closed in a cool, well-ventilated place.

## 7.3 Specific end use(s)

No data available

## 8. Exposure controls / Personal protection

#### 8.1 Control parameters

Does not contain substances above concentration limits fixing an occupational exposure limit.

## 8.2 Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment. If handled uncovered, arrangements with local exhaust ventilation have to be used.

#### 8.3 Personal protective equipment

Wear suitable protective clothing. When handling with chemical substances, protective clothing with CE-labels including the four control digits must be worn.

#### 8.3.1 Eye / face protection

Eye glasses with side protection DIN-/EN-Norms: DIN EN 166

#### 8.3.2 Skin protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. Recommended glove articles DIN-/EN-Norms: DIN EN 374 In the case of wanting to use the gloves again, clean them before taking off and air them well.

By short-term hand contact

Suitable material: NBR (Nitrile rubber)

Thickness of the glove material 0,12 mm

Breakthrough time (maximum wearing time) >480 min

Recommended glove articles VWR 112-0998

By long-term hand contact

Suitable material: NBR (Nitrile rubber)

Thickness of the glove material 0,38 mm

Breakthrough time (maximum wearing time) >480 min

Recommended glove articles VWR 112-3717 / 112-1381

## 8.3.3 Protective clothing

Wash hands before breaks and after work. Avoid contact with skin and eyes. When using do not eat, drink or smoke. Provide eye shower and label its location conspicuously.

#### 8.3.4 Respiratory protection

Respiratory protection necessary at: aerosol or mist formation

Suitable respiratory protection apparatus: Filtering Half-face mask (DIN EN 149)

Recommendation VWR 111-0451

Suitable material: P3

Recommendation No data available

#### 8.4 Additional information

Wash hands before breaks and after work. Avoid contact with skin and eyes. When using do not eat, drink or smoke. Provide eye shower and label its location conspicuously.

#### 9. Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

(a) Appearance

Physical state solid Colour white

(b) Odour No data available (c) Odour threshold No data available

## Safety relevant basic data

(d) pH No data available

(e) Melting point/freezing point 67°C

(f) Initial boiling point and boiling range

(g) Flash point

(h) Evaporation rate

(i) Flammability (solid, gas)

361°C (1013 hPa)

196°C (closed cup)

No data available

not applicable

(j) Upper/lower flammability or explosive limits

Lower explosion limit (Vol-%)

Upper explosion limit (Vol-%)

No data available

No data available

No data available

1 mmHg (174°C)

(I) Vapour density 9.8 (20°C)

(m) Relative density 0.94 g/cm³ (20°C)

(n) Solubility(ies)

Water solubility (g/l) 0,34 g/l (25°C)

at °C:

Soluble (g/l) in No data available (o) Partition coefficient: n-octanol/water 8.23 (20°C)

(p) Auto-ignition temperature 395°C

(q) Decomposition temperature No data available

(r) Viscosity

Kinematic viscosity
Dynamic viscosity
9.87 mPa\*s (70°C)
(s) Explosive properties
not applicable
(t) Oxidising properties
not applicable

#### 9.2 Other information

Bulk density

refraction index

dissociation constant

Surface tension

Henry constant

No data available

#### 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				
No data available				
10.5 Incompatible materials				
No data available				
10.6 Hazardous decomposition products				
No data available				
10.7 Additional information				
No data available				
11. Toxicological information				
11.1 Information on toxicological effects				
Acute effects				
Acute oral toxicity				
Effective dose	LD50: Min. 5000 mg/kg			
species:	rat			
Exposure time				
remark				
source	OECD 401			
Acute dermal toxicity				
Effective dose	LD50: Min. 5000 mg/kg			
species:	rabbit			
Exposure time				
remark				
source	RTECS			
Acute inhalation toxicity				
Effective dose	No data available			
species:	No data available			
Exposure time				
remark				
source				

Irritant and corrosive effects	
Primary irritation to the skin	
Exposure time	
species:	
Result	
Irritation to eyes	
Exposure time	
species:	
Result	
Irritation to respiratory tract	
Exposure time	
species:	
Result	
Sensitisation	
In case of skin contact	not sensitising.
After inhalation	not sensitising.
Specific target organ toxicity (single exposure)	
not relevant	
Specific target organ toxicity (repeated exposure)	
not relevant	
CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)	
Carcinogenicity	
No indication of human carcinogenicity.	
Germ cell mutagenicity/Genotoxicity	
No indications of human germ cell mutagenicity exist.	
Reproductive toxicity	
No indications of human reproductive toxicity exist.	

Aspiration hazard

not relevant

#### 11.2 Other adverse effects

No data available

#### 11.3 Additional information

No data available

## 12. Ecological information

#### 12.1 Ecotoxicity

## Acute (short-term) fish toxicity

LC50: No data available

EC50 species: Exposure time

Chronic (long-term) fish toxicity

LC50: No data available

EC50 species: Exposure time

Acute (short-term) daphnia toxicity

LC50: No data available

EC50 species: Exposure time

Chronic (long-term) daphnia toxicity

LC50: No data available

EC50 species: Exposure time

Acute (short-term) algae toxicity

LC50: No data available

EC50 species: Exposure time

Chronic (long-term) algae toxicity

LC50: No data available

EC50 species: Exposure time

## 12.2 Persistence and degradability

No data available

## 12.3 Bioaccumulative potential

(o) Partition coefficient: n-octanol/water 8.23 (20°C)

12.4 Mobility in soil	
No data available	
12.5 Results of PBT assessment	
No data available	
12.6 Other adverse effects	
No data available	
13. Disposal considerations	
13.1 Waste treatment methods	
Appropriate disposal / Product	
Dispose according to legislation. Consult the appropriat a hazardous waste incinerator facility under observation	te local waste disposal expert about waste disposal. Send to n of official regulations.
Waste code product	No data available
Appropriate disposal / Package	
13.2 Additional information	
No data available	
14. Transport information	
14.1 Land transport (ADR/RID)	
No dangerous good in sense of these transport regulations	S.
14.2 Sea transport (IMDG)	
No dangerous good in sense of these transport regulations	<b>S</b> .
14.3 Air transport (ICAO-TI / IATA-DGR)	
No dangerous good in sense of these transport regulations	S.
14.4 Additional information	
No data available	

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture							
Water hazard class (WGK)	0						
15.2 Chemical Safety Assessment							
No data available							
16. Other information							
16.1 Relevant R-, H- and EUH-phrases (Number and full text)							
not applicable							
H315	Causes skin irritation.						

16.2 Additional information

Indication of changes

general update

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.