

## SDS

### Information

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#### 1. Identification of the Substance/Preparation and the Company/Undertaking

##### 1.1 Product identifier:

Product name:	Stearic Acid
REACH registered name:	Stearic Acid
REACH registered No:	01-2119543894-28
CAS Number:	57-11-4

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

Identified use(s): SU3, SU5, SU7, SU8, SU10, SU11, SU12, SU17, SU19

##### 1.3 Details of the supplier of the safety data sheet:

YouWish  
Venserweg 21M  
1112AR Diemen  
The Netherlands  
[www.youwish.nl](http://www.youwish.nl)

##### 1.4 Emergency telephone number: +31 20 7867784

Email address: [contact@youwish.nl](mailto:contact@youwish.nl)

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#### 2. Hazards Identification

##### 2.1 Classification of the Substance or Mixture: CLP Regulation 1272/2008/EC

Does not contain any components which are hazardous according to DSD [67/548/EC] or CLP Regulation 1272/2008/EC

##### 2.2 Label Elements:

Does not require a hazard warning label in accordance with DSD [67/548/EC] or CLP Regulation 1272/2008/EC

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### 2.3 Other Hazards:

- **PBT:** This product is not identified as a PBT / vPvB substance
- Hot liquid may cause thermal burns.

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## 3. Composition

### 3.1 Substances: Stearic Acid

CAS-No:	Substance Name	% Range	EC Number	REACH Reg No
57-11-4	Stearic Acid	100	200-313-4	01-2119543894-28

### 3.2 Mixtures: N/A

There are no additional ingredients present which, within current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section in accordance with Regulation (EC) No. 1272/2008.

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## 4. First aid measures

### 4.1 Description of First Aid Measures

**General Information:** Remove contaminated / saturated clothing immediately. In case of accident or illness seek medical advice immediately.

**Inhalation:** Remove the affected person to fresh air, keep warm and rest. If recovery is not rapid, obtain medical attention

**Skin Contact:** Wash the affected parts of the body with soap and water. No emergency measures are necessary but if adverse skin effects follow, refer for medical attention.

**Eye Contact:** Flush eyes immediately with fresh water for at least 5 minutes while holding the eyelids open. No emergency measures are necessary but if adverse eye effects follow, refer for medical attention.

**Ingestion:** Do not induce vomiting. No emergency measures are needed but if adverse health effects follow or large amounts are swallowed, refer for medical attention.

**Self-Protection of First Aider:** First aider, pay attention to self-protection.

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

**Inhalation:** Over-heated oil can produce fumes which may be irritant when breathed in.

**Skin Contact:** May cause slight irritation to skin.

**Ingestion:** No known significant effects or critical hazards

**Eye Contact:** May cause slight irritation to eyes, if so consult an ophthalmologist

#### **4.3 Indication of any immediate medical attention and special treatment needed**

In contact with or splashed by hot liquid:

**Skin Contact** Cool the skin immediately with cool water. Treat burns according to their severity. Obtain medical attention. Never try to remove the material with solvents.

**Contact with eyes** Cool the area immediately with cold water. Seek advice of an ophthalmologist.

**Specific Treatment:** First Aider, decontamination, treatment of symptoms.

**Notes to doctor:** Treat symptomatically.

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## **5. Firefighting measures**

**5.1 Extinguishing media:** Foam, dry chemical, carbon dioxide, water mist.

**5.2 Special hazards arising from the substance or mixture:** Slight flammability hazard when exposed to heat or flame. During a fire, toxic gases (carbon monoxide, nitrous gases) may be generated by thermal decomposition or combustion.

**5.3 Advice for firefighters:** Only suitably trained personnel should attempt to tackle fires. Do not stay in the danger zone without respiratory protective equipment and protective clothing.

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## 6. Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures:** Surfaces may become slippery after spillage.

**6.2 Environmental precautions:** Water may be used to flush spills away from sources of ignition. Do not allow the product to enter public drainage system or open water courses.

**6.3 Methods and material for containment and cleaning up:** Use Sand or active clay to absorb spilled substance and remove to containers for disposal

**6.4 Reference to other Sections:** See sections 8 and 13

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## 7. Handling and storage

**7.1 Precautions for safe handling:** Avoid skin contact. Avoid inhalation of vapour, mist or fumes. Do not wear contaminated clothing. Avoid contact with the eyes – wear chemical protective goggles when handling the product. Protective clothing such as impervious gloves should be worn if skin contact is anticipated. Protective clothing should be regularly inspected and maintained, discard oil saturated leather articles. The use of barrier and after work creams may be beneficial. Wash hands after working with the material.

**7.2 Conditions for safe storage, including any incompatibilities:** Keep containers tightly closed. Avoid heat and sources of ignition. Store in original containers or in other mild steel or high density polyethylene containers which are closable and clearly labelled. Clean up any spilled material immediately

**7.3 Specific end use(s):** This material is formulated for various uses.

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## 8. Exposure Controls/Personal Protection

**8.1 Control Parameters:** TWA TLV (ACGIH): 2 mg/m<sup>3</sup> (paraffin wax fumes). However in all circumstances exposure should be kept as low as reasonably possible by good ventilation and safe working practices.

**PNEC Values:** - No Data Available

**DNEL Values:** -

Substance Name	Type	Exposure Long Term	Value	Population	Effect
Stearic Acid	DNEL	Dermal	10mg/kg bw/day	Worker	Systemic
	DNEL	Inhalation	17.632 mg/m <sup>3</sup>	Worker	Systemic
	DNEL	Dermal	5 mg/kg bw/day	General	Systemic
	DNEL	Inhalation	4.348 mg/m <sup>3</sup>	General	Systemic
	DNEL	Oral	2.5 mg/kg bw/day	General	Systemic

## 8.2 Exposure Controls:

**Appropriate engineering measures:** Facilities storing or utilising this material should be equipped with an eyewash facility.

**Respiratory protection:** Inhalation of the vapour, fumes or mists should be avoided by safe working practices and good ventilation.

**Eye protection:** Wear appropriate eye goggles.

**Skin protection:** No special precautions are needed beyond clean working conditions and safe handling practices. Change heavily contaminated clothing.

**Hand protection:** Use impervious gloves [conforming to EN374] PVC is suitable for casual contact. If direct contact for more than 2 hours then Neoprene or nitrile gloves recommended.

**8.3 Environmental Exposure Controls:** See sections 6, 7, 12 and 13

## 9. Physical and Chemical Properties

### 9.1 Information on basic chemical and physical properties:

<b>Appearance:</b>	Liquid (at elevated temperature) Solid (at ambient temperature)
<b>Odour:</b>	Typical/ Faint
<b>Odour threshold:</b>	Not determined
<b>pH:</b>	Neutral
<b>Melting point/ Congealing point:</b>	51 - 54°C
<b>Boiling point/ range:</b>	Initial boiling point 205 - 225°C
<b>Flash Point:</b>	> 180 °C (ASTM D92, COC)
<b>Evaporation Point:</b>	Not determined
<b>Flammability (solid, gas):</b>	May be combustible at high temperature
<b>Explosion Limits:</b>	Not determined
<b>Vapour pressure:</b>	Negligible
<b>Vapour density:</b>	Not determined
<b>Relative density (at 15°C):</b>	0.83 – 0.86
<b>Solubility in water:</b>	<1 mg/l
<b>Solubility in other solvents:</b>	Petroleum Ether, Ethyl Acetate
<b>Partition coefficient n-octanol/water:</b>	>3 (estimated)
<b>Auto-ignition temperature:</b>	350°C.
<b>Decomposition temperature:</b>	Not determined
<b>Viscosity (Kinematic, at 100°C):</b>	4.0cst
<b>Explosive properties:</b>	Not determined
<b>Oxidizing properties:</b>	Not determined

9.2 Other Information: None

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## 10. Stability and Reactivity

**10.1 Reactivity:** This product is not reactive under normal storage and handling conditions (see section 7).

**10.2 Chemical stability:** Under normal storage and handling conditions, this product is stable. May react with strong oxidising agents, especially at high temperatures.

**10.3 Possibility of hazardous reactions:** No specific hazardous reactions are expected.

**10.4 Conditions to avoid:** Polymerisation

**10.5 Incompatible materials:** Alkali [lye]

**10.6 Hazardous decomposition products:** Carbon Dioxide

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## 11. Toxicological Information

### 11.1 Information on toxicological effects - Stearic Acid

#### Acute Toxicity

Acute Toxicity (oral)	LD50>5000mg/kg
Acute Toxicity (dermal)	LD50>5000mg/kg
Acute Toxicity (inhalation)	LC50>0.1621 mg/l air [nominal]

<b>Skin Corrosive / Irritation:</b>	No known significant effects or critical hazards. Non irritating
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<b>Serious Eye Damage Irritation:</b>	No known significant effects or critical hazards. Non irritating
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<b>Respiratory Sensitisation:</b>	No Data Available
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<b>Skin Sensitisation:</b>	Not sensitising
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<b>Repeated Dose Toxicity:</b>	NOAEL
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<b>Mutagenicity:</b>	Negative
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<b>Carcinogenicity:</b>	No Data Available
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<b>Reproductive Toxicity:</b>	No Data Available
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## 12. Ecological Information

### 12.1 Toxicity: Stearic Acid

<b>Environmental Fate:</b>	Not established
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<b>Aquatic toxicity (fish):</b>	LC50 >10000 mg/l - <i>Leuciscus idus</i> – [Golden orfe] 48hrs
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<b>Aquatic toxicity (algae):</b>	NOEC - <i>Desmodesmus subspicatus</i> - 72hrs
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<b>Aquatic toxicity (invertebrate):</b>	LC50 >20 mg/l – brine shrimp ( <i>Artemia salina</i> ) 48hrs
<b>Mobility:</b>	Solid at ambient temperature
<b>Biodegradation:</b>	59.48% in 140 days
<b>Bioaccumulation potential:</b>	BCF – 236 - 282 l/kg
<b>Other Ecological information:</b>	No known significant effects or critical hazards.

**Results of PBT and vPvB assessment:** This substance does not fulfil the criteria for being classed as a PBT or vPvB substance.

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## 13 Disposal Considerations

**13.1 Waste treatment methods:** Transport to authorised waste location, or incinerate under controlled conditions (EU Directives 2000/76/EC and 1999/31EC apply). European Waste Catalogue No. 050199/130899.

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## 14. Transport Information

**14.1 UN number:** Not Classified.

**14.2 UN Proper shipping name:** 12-Hydroxystearic Acid

**14.3 Transport Hazard Class(es):** Not Classified

**14.4 Packing Group:** Not Classified

**14.5 Environmental Hazards:** None

**14.6 Special Precautions for user:** None

**14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code:** Not Classified



## 15. Regulatory Information

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

<b>EU Regulations</b>	Directive 67/548/EC Regulation [EC] 1272/2008 Regulation [EC] 1907/2006 DPD 1999/45/EC
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**15.2 Chemical Safety Assessment:** The supplier has not performed a chemical safety assessment of this substance.

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## 16. Other Information

### Indication of changes:

V2.0 – CAS & EC numbers corrected  
V3.0 – Periodic Review – No changes

### Abbreviations & Acronyms

<b>PNEC</b>	<b>Predicted No Effect Level</b>
<b>DNEL</b>	<b>Derived No Effect Level</b>
<b>LD50</b>	<b>Median Lethal Dose</b>
<b>LC50</b>	<b>Median Lethal Concentration</b>
<b>CAS No</b>	<b>Chemical Abstract Services number</b>
<b>CLP</b>	<b>Classification Labelling and Packaging Regulation</b>
<b>ES</b>	<b>Exposure Scenario</b>
<b>EC</b>	<b>European Commission</b>
<b>EC No</b>	<b>European Chemical Number – EINECS - ELINCS</b>
<b>ECHA</b>	<b>European Chemical Agency</b>
<b>EINECS</b>	<b>European Inventory of Existing Commercial Chemical Substances</b>
<b>ELINCS</b>	<b>European List of Notified Chemical Substances.</b>
<b>SU</b>	<b>Sector of Use</b>
<b>BCF</b>	<b>Bio Concentration Factor</b>
<b>BOC</b>	<b>Biochemical Oxygen Demand</b>
<b>NOAEL</b>	<b>No Observed Adverse Effect Level</b>

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