



Trade name: Natriumlauryl-Sulfat/Sigma-Aldrich GmbH

Substance number: 716290

Version: 1 / CH

Date revised: 28.10.10

Replaces Version: - / CH

Date of printing: 22.06.12

## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Natriumlauryl-Sulfat/Sigma-Aldrich GmbH  
Item-No. 71629004

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

#### Use of the substance/preparation

Surfactant

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

#### Address

Hänseler AG  
Industriestrasse 35  
9101 Herisau  
Telephone no. 0041 (0)71 353 58 58  
E-mail address of sdb@haenseler.ch  
person responsible  
for this SDS

### 1.4. Emergency telephone number

Switzerland :145 / Abroad +41 (0)44 251 51 51

## 2. Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)  
Flam. Sol. 2 H228  
Acute Tox. 3 H311  
Acute Tox. 4 H302  
STOT SE 3 H335  
Skin Irrit. 2 H315  
Eye Irrit. 2 H319

#### Classification in accordance with EC directives

Classification F, R11  
Xn, R21/22  
Xi, R36/37/38

### 2.2. Label elements

#### Labelling according to regulation (EC) No 1272/2008

#### Hazard pictograms



#### Signal Word

Danger

#### Hazard statements

H228 Flammable solid.  
H302 Harmful if swallowed.



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H311 Toxic in contact with skin.  
 H315 Causes skin irritation.  
 H319 Causes serious eye irritation.  
 H335 May cause respiratory irritation.

**Precautionary statements**

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
 P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P309+P311 IF exposed or if you feel unwell: CALL a POISON CENTER or doctor/physician.

**Labelling in accordance with EC directives 1999/45/EC and 67/548/EEC**

The product is classified and labelled in accordance with EC directives/the relevant national laws.

**Hazard symbols**

Harmful



Highly flammable

**R phrases**

11 Highly flammable.  
 21/22 Harmful in contact with skin and if swallowed.  
 36/37/38 Irritating to eyes, respiratory system and skin.

**S phrases**

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
 36/37 Wear suitable protective clothing and gloves.  
 60 This material and its container must be disposed of as hazardous waste.

**Hazardous component(s) to be indicated on label**

contains sodium dodecyl sulphate

**3. Composition/information on ingredients****Hazardous ingredients****sodium dodecyl sulphate**

CAS No.	151-21-3			
EINECS no.	205-788-1			
Concentration		>=	50	%
Classification	F, R11 Xn, R21/22 Xi, R36/37/38			

**4. First aid measures****4.1. Description of first aid measures****After inhalation**

Ensure supply of fresh air.



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**After skin contact**

Remove contaminated, soaked clothing immediately and dispose of safely. Wash off immediately with soap and water.

**After eye contact**

Separate eyelids, wash the eyes thoroughly with water (15 min.). Eye treatment by an Oculist.

**After ingestion**

Drink water in small gulps. Do not induce vomiting. Call in a physician immediately and show him the Safety Data Sheet.

**5. Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Foam, Dry powder, Carbon dioxide

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

None known

**5.3. Advice for firefighters****Special protective equipment for fire-fighting**

Use self-contained breathing apparatus.

**6. Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Avoid contact with eyes and skin. Do not inhale dust.

**6.2. Environmental precautions**

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

**6.3. Methods and material for containment and cleaning up**

Pick up mechanically.

**7. Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

Avoid dust formation. Avoid the formation and deposition of dust. Danger of dust explosion. Keep away sources of ignition. Take precautionary measures against electrostatic loading.

**Advice on protection against fire and explosion**

Keep away from sources of ignition.

**7.2. Conditions for safe storage, including any incompatibilities****Recommended storage temperature**

Value < 40 °C

**Requirements for storage rooms and vessels**

Keep container tightly closed and dry.

**VCI storage category**

VCI storage category 4.1B Flammable solids

**8. Exposure controls/personal protection**



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## 8.2. Exposure controls

### General protective and hygiene measures

Wash hands before breaks and after work. Do not inhale dust.

### Respiratory protection

Breathing apparatus in the event of aerosol. Provide good ventilation of working area (local exhaust ventilation if necessary).

### Hand protection

Appropriate Material	viton		
Material thickness	0.7	mm	
Penetrating time	> 480	min	

### Eye protection

Safety glasses

### Body protection

Protective clothing

## 9. Physical and chemical properties

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

<b>Form</b>	Powder		
<b>Colour</b>	white		
<b>Odour</b>	odourless		
<b>pH</b>			
Value	8.5	to	10.5
Concentration/H <sub>2</sub> O	10	g/l	
Temperature	20	°C	
method	DGF-H-III 1		
<b>Melting point</b>			
Value	204	to	207 °C
<b>Boiling point</b>			
Remarks	Not applicable		
<b>Flash point</b>			
Value	> 150		°C
<b>Vapour pressure</b>			
Remarks	No data available		
<b>Density</b>			
Value	1.1		g/cm <sup>3</sup>
Temperature	20	°C	
<b>Solubility in water</b>			
Value	150		g/l
Temperature	20	°C	
<b>Octanol/water partition coefficient (log Pow)</b>			
log Pow	1.6		
method	experimental		

### 9.2. Other information

#### Bulk density

Value	200	to	300	kg/m <sup>3</sup>
method	DGF-H-II 1b			



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## **10. Stability and reactivity**

### **10.4. Conditions to avoid**

Keep away from sources of heat and ignition.

### **10.5. Incompatible materials**

None

### **10.6. Hazardous decomposition products**

None known

### **Other information**

Danger of dust explosion

## **11. Toxicological information**

### **11.1. Information on toxicological effects**

#### **Acute oral toxicity**

LD50	>	300	to	2000	mg/kg
method		OECD 471			

#### **Acute inhalational toxicity**

Remarks	Harmful by inhalation.
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#### **Skin corrosion/irritation**

valuation	irritant
method	OECD 404

#### **Serious eye damage/irritation**

valuation	strongly irritant
method	OECD 405

#### **Mutagenicity**

method	OECD 471
Remarks	None

## **12. Ecological information**

### **12.1. Toxicity**

#### **Fish toxicity**

LC50	>	10	to	100	mg/l
method		ISO 7346/2 (semistatic)			

#### **Bacteria toxicity**

EC0	>	100	mg/l
method		OECD 209	
EC0	>	100	mg/l
method		DIN 38412 Part 8	

### **12.2. Persistence and degradability**

#### **Biodegradability**

Value	>	90	%
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#### **Ready degradability**

method	OECD 301
Remarks	The product is readily biodegradable according to OECD criteria.

#### **Chemical oxygen demand (COD)**



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Value &gt; 60 %(m)

**12.3. Bioaccumulative potential****Octanol/water partition coefficient (log Pow)**log Pow 1.6  
method experimental**13. Disposal considerations****13.1. Waste treatment methods****Disposal recommendations for the product**

Disposal in compliance with local and national regulations.

**Disposal recommendations for packaging**

Dispose of as unused product.

**14. Transport information****Land transport ADR/RID****14.1. UN number**

UN 1325

**14.2. UN proper shipping name**

FLAMMABLE SOLID, ORGANIC, N.O.S

**14.3. Transport hazard class(es)**

Class 4.1

Label 4.1

**14.4. Packing group**

Packing group III

**Marine transport IMDG/GGVSee****14.1. UN number**

UN 1325

**14.2. UN proper shipping name**

FLAMMABLE SOLID, ORGANIC, N.O.S

**14.3. Transport hazard class(es)**

Class 4.1

**14.4. Packing group**

Packing group III

**Air transport ICAO/IATA****14.1. UN number**

UN 1325

**14.2. UN proper shipping name**

FLAMMABLE SOLID, ORGANIC, N.O.S

**14.3. Transport hazard class(es)**

Class 4.1

**14.4. Packing group**

Packing group III

**15. Regulatory information****16. Other information****R-phrases listed in chapter 3**11 Highly flammable.  
21/22 Harmful in contact with skin and if swallowed.



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36/37/38

Irritating to eyes, respiratory system and skin.

**Supplemental information**

Relevant changes compared with the previous version of the safety data sheet are marked with: \*\*\*  
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.