


Page 1 of 5 Print Date 26.11.2018	Material Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) Natriumdodecylsulfat	 Revision Date 26.11.2018
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1 Identification of the substance/mixture and of the company/undertaking

• **Informations to product No.4453**

• **Product name:**

Natriumdodecylsulfat
Natrii laurilsulfas, Natriumlaurylsulfat
Sodium laurylsulfate

• **Supplier of the Product / responsible Company:**

Caesar & Loretz GmbH
Herderstr. 31
40721 Hilden
Tel.: 02103/4994-0
Fax: 02103/32360
e-mail: info@caelo.de

• **Emergency telephone:**

Giftinformationszentrum Mainz
Langenbeckstr. 1, 55131 Mainz
Tel.: 06131/19240

• **Relevant identified uses of the substance or mixture and uses advised against:**

No further relevant information available.

• **Application of the substance / mixture:**

Ingredient for pharmaceutical drugs or active pharmaceutical ingredient.

2 Hazards identification

• **GHS-Labeling Elements:**




• **Signal word:** Danger

• **H-Phrases:**

H228 Flammable solid.
H302 Harmful if swallowed.
H332 Harmful if inhaled.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.

• **P-Phrases:**

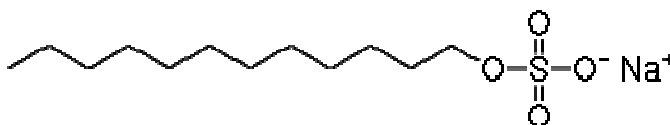
P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking.
P260 Do not breathe dust/fume/gas/mist/vapours/spray
P305 IF IN EYES:
P351 Rinse continuously with water for several minutes
P313 Get medical advice/attention

<p>Page 2 of 5</p> <p>Print Date 26.11.2018</p>	<p>Material Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)</p> <p>Natriumdodecylsulfat</p>	 <p>Revision Date 26.11.2018</p>
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Acute Tox. 4 (oral)
Acute Tox. 4 (inhal.)
Skin Irrit. 2
Eye Dam. 1
STOT SE 3

3 Composition / information on ingredients

• **Chemical characterization:**



CAS-No. Substance name

151-21-3 Sulfuric acid dodecyl ester, sodium salt

• **EINECS-No.:** 205-788-1

• **REACH-Reg.-No.:** 01-2119489461-32-0000

• **INCI-Name:** Sodium Lauryl Sulfate

4 First aid measures


- **after inhalation:** Fresh air. If irritation of respiratory ways continues, seek medical advice.
- **after skin contact:** Take off contaminated clothes and shoes, wash immediately with plenty of water and soap.
- **After eye contact:** Rinse out with plenty of water with the eyelid wide open. Call in ophthalmologist, even if no immediate symptoms occur.
- **after swallowing:** Drink plenty of water. Avoid vomiting. Seek medical advice.

5 Fire-fighting measures

- **Suitable extinguishing media:** All regular extinguishing media can be used. Select fire fighting measures suitable to surrounding environment.
- **Specific hazards during fire fighting:** Combustible. In case of fire dangerous vapours/gases can be generated: Smoke gases, sulphur oxides.
- **Special protective equipment for fire-fighters:** Suitable protective clothes and respiratory protection.
- **Additional information:** Prevent fire extinguishing water from contaminating surface water, the ground water system or soil. Residues must be deposited according to local regulations.

6 Accidental release measures

- **Personal protective measures:** Avoid dust generation and contact with substance. Wear suitable protective equipment according to Chapter 8 of this MSDS.
- **Methods for cleaning:** Take up dry. Avoid generation of dusts. Disposal according to Chapter 13 of this MSDS. Clean up with water.
- **Additional information:** Do not empty into drains, prevent from contaminating surface water or the

<p>Page 3 of 5</p> <p>Print Date 26.11.2018</p>	<p>Material Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)</p> <p>Natriumdodecylsulfat</p>	 <p>Revision Date 26.11.2018</p>
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ground water system.

7 Handling and storage

- **Handling:** Good ventilation of working place. Avoid dust formation.
- **Advice on safe handling:** No special measures required.
- **Informations to fire or explosion protection:** Good ventilation of the working place and storage place. Keep away from ignition sources. Do not smoke..
- **Storage:**
- **Requirements for storage areas and containers:** Tightly closed. Store at a dry place.

8 Exposure controls / personal protective equipment


- **Components with limit values that require monitoring at the workplace:**
General dust concentration limit, respirable fraction: AGW 10 mg/m³
General dust concentration limit, inhalable fraction: AGW 3 mg/m³
- **Personal protective equipment:**
- **General protective and hygiene measures:**
Avoid contact with substance. Wash hands before breaks and after work.
- **Respiratory protection:** Dust protection mask.
- **Hand protection:** Protection gloves of rubber.
- **Eye protection:** Safety glasses.

9 Physical and chemical properties

- **Form:** Powder
- **Colour:** white
- **Odour:** odourless
- **Melting point / melting range:** 205 °C
- **Boiling point / boiling range:** 216 °C
- **Flash point:** 170 °C
- **Self ignition temperature:** 311 °C
- **Explosion hazard:** Explosive dust-air-mixtures can be formed.
- **Density:**
- **Bulk density:** 200 - 300 kg/cbm
- **Solubility in / Miscibility with**
- **Water:** (20 °C) 150 g/l
- **pH-range:** (10 g/l, 20 °C) 8,5 - 10,5

10 Stability and reactivity

- **Thermal decomposition / conditions to avoid:** Avoid strong heating.
- **Hazardous reactions:** No hazardous reactions known.
- **Hazardous decomposition products:** none

<p>Page 4 of 5</p> <p>Print Date 26.11.2018</p>	<p>Material Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)</p> <p>Natriumdodecylsulfat</p>	 <p>Revision Date 26.11.2018</p>
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11 Toxicological information

- **Acute toxicity:**

- **LD/LD50-data relevant for hazard classification:**

151-21-3 Sulfuric acid dodecyl ester, sodium-salt

LD50, oral: 300-2000 mg/kg (OECD 401)

LD50 = 1288 mg/kg (oral, rat)

- **Primary irritant effect:**

- **on skin:** Irritant effect

- **on eyes:** Irritant effect with danger of serious eye damage.

- **on respiratory organs:** Irritant effect.

- **Sensitization:** no sensitizing effect known.

- **CMR-effects:** no CMR-effects known.

12 Ecological information

- **Information about elimination (persistence and degradability):** Readily biodegradable: All organic components of this product reach in tests on easy biodegradability (f.e. OECD 301 A-F) values of at least 60% "readily degradable": $\geq 70\%$

DOC-reduction or $\geq 60\%$ BSB/CSB in 28 days).

The surfactants contained in this product are according to the requirements of the German Tensidverordnung (TensV) from June 04, 1986 to at least 90% average biodegradable.

- **Aquatic toxicity:**

Fish: (*Leuciscus idus*) LC50 $> 10 - 100$ mg/l

Bacteria: (*Ps. putida*) EC50 > 100 mg/l (O₂-consumption test)

Chronic bacteria toxicity: (*Ps. putida*) EC50 > 100 mg/l (cell proliferation inhibition test)

- **log p(O/W):** -2,03

- **General advices:** Prevent from leaking into ground water, environment waters or drainage.

- **Water hazard class:** 2 (self classification): hazardous for water.

13 Disposal considerations

- **Product:**

- **Recommendation:** Disposal according to local regulations as pharmaceutical waste.

- **Empty contaminated packaging:**

- **Recommendation:** Disposal according to the local regulations.

14 Transport informations

- **Land transport according to ADR:**

- **Proper shipping name:** Flammable solids, organic, n.o.s., Sodium laurylsulphate

- **Class:** 4.1

- **UN-number:** 1325

- **Packing group:** III


- **Classification code:** F1

- **Limited quantities:** 5kg

- **Hazard classification number:** 40

- **Special provisions (Chapter 3.3 ADR):** 274

- **Additional informations for sea transport IMDG:**

Page 5 of 5 Print Date 26.11.2018	Material Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) Natriumdodecylsulfat	 Revision Date 26.11.2018
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- **EMS-No.:** F-A, S-G
- **Properties:** Fp=170°C

15 Regulatory information

- **Labelling according to actual legislation (GHS, Globally Harmonized System of Classification and Labelling of Chemicals):**

The product is classified and labelled according to GHS-regulations.

- **Hazard symbols:** GHS02, GHS05, GHS07

- **Signal word:** Danger

- **H-Phrases:**

H228 Flammable solid.

H302 Harmful if swallowed.

H332 Harmful if inhaled.

H315 Causes skin irritation.

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H335 May cause respiratory irritation.

- **P-Phrases:**

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P260 Do not breathe dust/fume/gas/mist/vapours/spray

P305 IF IN EYES:

P351 Rinse continuously with water for several minutes

P313 Get medical advice/attention

- **National regulations (Germany):**

- **Water hazard class:** see chapter 12

- **Storage class TRGS 510:** 8A

16 Other Information

The information provided in this MSDS is correct to the best of our knowledge at the date of edition.

- **Reason for last revision:** Adjustment to regulation (EC) 1907/2006 (REACH) and GHS-labelling system.