

Trade name: Natrii laurylsulfas/Sigma-Aldrich GmbH

Substance number: 066290

Version: 2 / CH

Date revised: 17.12.2018

Replaces Version: 1 / CH

Print date: 16.12.20

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

1.1. Product identifier

Natrii laurylsulfas/Sigma-Aldrich GmbH

Item No. 06629000

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

Use of the substance/preparation

Pharmaceutical excipient

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Hänseler AG

Industriestrasse 35

9100 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

SECTION 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. 4	H302
Acute Tox. 4	H332
Skin Irrit. 2	H315
Eye Dam. 1	H318
STOT SE 3	H335
Aquatic Chronic 3	H412

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

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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H332	Harmful if inhaled.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
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.
P310	Immediately call a POISON CENTER or doctor.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains sodium dodecyl sulphate

SECTION 3: Composition/information on ingredients**Hazardous ingredients****sodium dodecyl sulphate**

CAS No.	151-21-3		
EINECS no.	205-788-1		
Registration no.	01-2119489461-32		
Concentration	>= 59		%
Classification (Regulation (EC) No. 1272/2008)			
	Flam. Sol. 2	H228	
	Acute Tox. 4	H302	
	Skin Irrit. 2	H315	
	Eye Dam. 1	H318	
	Acute Tox. 4	H332	
	STOT SE 3	H335	Respiratory tract; Route of exposure: inhalative
	Aquatic Chronic 3	H412	

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

Remove the casualty into fresh air and keep him calm. In the event of symptoms take medical treatment.

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.

SECTION 5: Firefighting measures

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5.1. Extinguishing media**Suitable extinguishing media**

Foam, Dry powder, Carbon dioxide, Water spray jet

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixtureCarbon monoxide (CO); Carbon dioxide (CO₂); Development of toxic gases; Sulphur oxides; Forms explosive mixture with air are possible.**5.3. Advice for firefighters****Special protective equipment for fire-fighting**

Use self-contained breathing apparatus. Use personal protective clothing.

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

Avoid contact with eyes and skin. Do not inhale dust. Avoid dust formation. Ensure adequate ventilation. Use breathing apparatus if exposed to vapours/dust/aerosol.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Take up with absorbent material (eg sand, kieselguhr, universal binder). Avoid raising dust. Take up mechanically and collect in suitable container for disposal.

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

Danger of dust explosion. Keep container tightly closed. Provide good ventilation of working area (local exhaust ventilation if necessary). Wear protective equipment

Advice on protection against fire and explosion

Keep away from sources of ignition. Avoid dust formation. Take action to prevent static discharges.

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

Value <= 30 °C

Requirements for storage rooms and vessels

Keep container tightly closed and dry.

SECTION 8: Exposure controls/personal protection**8.2. Exposure controls****General protective and hygiene measures**

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

Respiratory protection

Breathing apparatus in the event of aerosol. Provide good ventilation of working area (local exhaust ventilation if necessary). Particle filter half mask, filter P3 - Norm NF EN 149

Hand protection

Appropriate Material viton

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Material thickness		0.7	mm
Breakthrough time	>	480	min

Eye protection

Tightly fitting safety glasses

Body protection

Protective clothing

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Form	Powder		
Colour	white		
Odour	odourless		
pH value			
Value	8.5	to	10.5
Concentration/H ₂ O	10	g/l	
Temperature	20	°C	
Method	DGF-H-III 1		
Melting point			
Value	205		°C
Initial boiling point and boiling range			
Value	216		°C
Flash point			
Value	170		°C
Flammability (solid, gas)	Flammable.		
Vapour pressure			
Value	0.0018		mbar
Temperature	20	°C	
Density			
Value	1.1		g/cm ³
Temperature	20	°C	
Solubility in water			
Value	>	130	g/l
Temperature		20	°C
Solubility(ies)			
Ethanol			
Remarks	partly soluble		
Partition coefficient: n-octanol/water			
p _{OW}	<=		
log Pow	-2.03		
Temperature	20	°C	
Minimum ignition energy			
Minimum ignition energy	3	to	10 MJ

9.2. Other information**Bulk density**

Value	200	to	300	kg/m ³
Method	DGF-H-II 1b			

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Other information

The product is not dangerous for explosions. Forms explosive mixture with air are possible.

SECTION 10: Stability and reactivity**10.1. Reactivity**

No decomposition if stored and applied as directed.

10.2. Chemical stability

No decomposition if stored and applied as directed.

10.3. Possibility of hazardous reactions

The product is not a dust explosion risk as supplied; however the build-up of fine dust can lead to a risk of dust explosions.

10.4. Conditions to avoid

Avoid dust formation. Keep away from sources of heat and ignition. Sparks. Flames

10.5. Incompatible materials

None

10.6. Hazardous decomposition products

None known

Other information

Danger of dust explosion

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute oral toxicity**

ATE	1'200	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	

Acute oral toxicity (Components)**sodium dodecyl sulphate**

Species	rat	
LD50	1290	mg/kg
Source	Food and Cosmetic Toxicology. Vol. 5, Pg. 763, 1967	

sodium dodecyl sulphate

Species	rat	
LD50	1200	mg/kg
Method	OECD 401	
Source	Safety Data Sheet Supplier	

Acute dermal toxicity (Components)**sodium dodecyl sulphate**

LD50	> 2000	mg/kg
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Acute inhalational toxicity

ATE	11	mg/l
Administration/Form	Vapors	
Method	calculated value (Regulation (EC) No. 1272/2008)	
ATE	1.5	mg/l
Administration/Form	Dust/Mist	
Method	calculated value (Regulation (EC) No. 1272/2008)	

Acute inhalative toxicity (Components)

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sodium dodecyl sulphate

Remarks Harmful by inhalation.

Skin corrosion/irritation (Components)**sodium dodecyl sulphate**Species rabbit
evaluation irritant
Method OECD 404**Serious eye damage/irritation (Components)****sodium dodecyl sulphate**Species rabbit
evaluation irritant - risk of serious damage to eyes
Method OECD 405**Sensitization (Components)****sodium dodecyl sulphate**

Remarks None

Mutagenicity (Components)**sodium dodecyl sulphate**Species mammal, species unspecified
evaluation No experimental information on genotoxicity in vitro available.**Reproduction toxicity (Components)****sodium dodecyl sulphate**

evaluation No negative effects

Carcinogenicity (Components)**sodium dodecyl sulphate**

evaluation No negative effects

Specific Target Organ Toxicity (STOT) (Components)**sodium dodecyl sulphate****Single exposure**evaluation Causes damage to organs.
Route of exposure inhalative
Organs: Respiratory tract**SECTION 12: Ecological information****12.1. Toxicity****Fish toxicity (Components)****sodium dodecyl sulphate**Species Fathead minnow (Pimephales promelas)
LC50 29 mg/l
Duration of exposure 96 h
Method OECD 203**Daphnia toxicity (Components)****sodium dodecyl sulphate**Species Ceriodaphnia spec
LC50 5.55 mg/l
Duration of exposure 48 h**Algae toxicity (Components)****sodium dodecyl sulphate**

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Species	Desmodesmus subspicatus	
EC50	> 120	mg/l
Duration of exposure	72	h
Method	DIN 38412 / Part 9	

Bacteria toxicity (Components)**sodium dodecyl sulphate**

Species	Pseudomonas putida	
EC10	1.084	mg/l
Duration of exposure	16	h
Method	DIN 38412 Part 8	

sodium dodecyl sulphate

Species	activated sludge	
EC50	135	mg/l
Duration of exposure	3	h

12.2. Persistence and degradability**Biodegradability (Components)****sodium dodecyl sulphate**

evaluation	Readily biodegradable (according to OECD criteria)
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12.3. Bioaccumulative potential**Partition coefficient: n-octanol/water**

pOW	<=	
log Pow		-2.03
Temperature		20 °C

12.4. Mobility in soil**Mobility in soil**

Will not adsorb on soil.

12.5. Results of PBT and vPvB assessment**Evaluation of persistence and bioaccumulation potential**

The Substance doesn't meets PBT/vPvB-criterions

SECTION 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.

SECTION 14: Transport information

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	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
Tunnel restriction code	E		
14.1. UN number	1325	1325	1325
14.2. UN proper shipping name	FLAMMABLE SOLID, ORGANIC, N.O.S.	FLAMMABLE SOLID, ORGANIC, N.O.S.	FLAMMABLE SOLID, ORGANIC, N.O.S.
14.3. Transport hazard class(es)	4.1	4.1	4.1
Label			
14.4. Packing group	III	III	III
Limited Quantity	5 kg		
Transport category	3		

SECTION 15: Regulatory information

15.2. Chemical safety assessment

For this substance a chemical safety assessment is not required.

SECTION 16: Other information

Hazard statements listed in Chapter 3

H228	Flammable solid.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

CLP categories listed in Chapter 3

Acute Tox. 4	Acute toxicity, Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic, Category 3
Eye Dam. 1	Serious eye damage, Category 1
Flam. Sol. 2	Flammable solid, Category 2
Skin Irrit. 2	Skin irritation, Category 2
STOT SE 3	Specific target organ toxicity - single exposure, Category 3

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.