

Trade name: Natrii laurylsulfas

Substance number: 066288

Version: 10 / CH

Date revised: 29.03.2023

Replaces Version: 9 / CH

Print date: 29.03.23

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

1.1. Product identifier

Natrii laurylsulfas

Item No. 06628800

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.
P271	Use only outdoors or in a well-ventilated area.
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

2.3. Other hazards

The Substance does not meet PBT-criteria. This substance does not meet the vPvB-criteria. This substance does not have endocrine disrupting properties with respect to humans. This substance does not have endocrine disrupting properties with respect to non-target organisms.

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	

Concentration limits (Regulation (EC) No. 1272/2008)

	Eye Irrit. 2	>= 10 < 19.999 %	
	Eye Dam. 1	>= 20 %	
ATE	oral	1'200	mg/kg
cATpE	inhalative, Dust/Mist	1.5	mg/l
cATpE	inhalative, Vapors	11	mg/l

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

Adhere to personal protective measures when giving first aid. If the patient is likely to become unconscious, place and transport in stable sideways position. Remove contaminated clothing

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immediately and dispose of safely.

After inhalation

Remove the casualty into fresh air and keep him calm. After inhalation of decomposition products: Inhale corticosteroid-dosing-aerosol immediately. Summon a doctor immediately.

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 ophthalmologist.

After ingestion

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

4.3. Indication of any immediate medical attention and special treatment needed**Hints for the physician / treatment**

Symptomatic treatment (decontamination, vital functions), no specific antidote known.

SECTION 5: Firefighting measures**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 mixture

Carbon 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

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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 \leq 30 °C

Requirements for storage rooms and vessels

Keep container tightly closed and dry.

Storage classes

Storage class according to TRGS 510	4.1B	Flammable hazardous solids
Storage category (Switzerland)	4.1	Flammable solids

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

Observe the usual precautions for handling chemicals. Do not breathe dust. At work do not eat, drink, smoke or take drugs. Wash hands and face after work. Store work clothing separately.

Respiratory protection

necessary; Particle filter P2

Hand protection

The glove material must be sufficient impermeable and resistant to the substance. Check the tightness before wear. Gloves should be well cleaned before being removed, then stored in a well ventilated location.

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

Hand protection must comply with EN 374.

Eye protection

Tightly fitting safety glasses; Eye protection must comply with EN 166.

Body protection

Protective clothing

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

Physical state	solid		
Colour	white		
Odour	odourless		
Physical state	Powder		
Melting point			
Value	204	to	207 °C
Pressure	1013	hPa	
Source	Literature value		
Flammability			
Flammable.			
Method	UN Test N.1 (ready combustible solids)		
Flash point			
Value	°C		
Remarks	Not applicable		

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Decomposition temperature

Value > 216 °C

pH value

Value 9.1
 Concentration/H₂O 1 %
 Temperature 20 °C
 Method DGF-H-III 1

Solubility(ies)

Ethanol
 Remarks partly soluble

Partition coefficient n-octanol/water (log value)

pOW <=
 log Pow -2
 Temperature 20 °C
 Method OECD 107

Vapour pressure

Value <= 0.18 Pa
 Temperature 20 °C
 Method OECD 104

Density and/or relative density

Value 0.63 g/ml
 Temperature 20 °C

9.2. Other information**Solubility in water**

Value > 130 g/l
 Temperature 20 °C
 Method OECD 105

Minimum ignition energy

Minimum ignition energy 3 to 10 MJ

Auto-ignition temperature

Value 310.5 °C

Bulk density

Value 200 to 300 kg/m³
 Method DGF-H-II 1b

Surface tension

Value 25.2 mN/m
 Temperature 23 °C
 Method EEC 92/69, A.5

Other information

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

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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 hazard classes as defined in Regulation (EC) No 1272/2008****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)**sodium dodecyl sulphate**

Remarks	Harmful by inhalation.
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Skin corrosion/irritation (Components)**sodium dodecyl sulphate**

Species	rabbit
evaluation	irritant
Method	OECD 404

Serious eye damage/irritation (Components)**sodium dodecyl sulphate**

Species	rabbit
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evaluation	irritant - risk of serious damage to eyes
Method	OECD 405

Sensitization (Components)**sodium dodecyl sulphate**

Remarks	None
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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
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Carcinogenicity (Components)**sodium dodecyl sulphate**

evaluation	No negative effects
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Specific Target Organ Toxicity (STOT) (Components)**sodium dodecyl sulphate**

Single exposure	
evaluation	Causes damage to organs. Route of exposure inhalative Organs: Respiratory tract

11.2 Information on other hazards**Endocrine disrupting properties with respect to humans**

This substance does not have endocrine disrupting properties with respect to humans.

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**

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		
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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)

12.3. Bioaccumulative potential**Partition coefficient n-octanol/water (log value)**

pOW	<=		
log Pow	-2		
Temperature	20		°C
Method	OECD 107		

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

Will not adsorb on soil.

12.5. Results of PBT and vPvB assessment**Results of PBT and vPvB assessment *****

The Substance does not meet PBT-criteria.
This substance does not meet the vPvB-criteria.

12.6 Endocrine disrupting properties**Endocrine disrupting properties with respect to the environment**

This substance does not have endocrine disrupting properties with respect to non-target organisms.

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	II	II	II
Limited Quantity	1 kg		
Transport category	2		

SECTION 15: Regulatory information

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

Water Hazard Class (Germany)

Water Hazard Class (Germany) WGK 2

Remarks Derivation of WGK according to Annex 1 No. 5.2 AwSV

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

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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.