



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 27.04.2022

Version number 2.00

Revision: 27.04.2022

* 1 Identification of the substance/mixture and of the company/undertaking

- **Product identifier**
- **Trade name:** Sodium laurilsulfate
- **Article number:** 4453
- **CAS Number:**
151-21-3
- **EC number:**
205-788-1
- **Registration number** The substance is exempt from REACH-registration.
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture** Ingredient for pharmaceutical drugs
- **Uses advised against** No relevant information available.
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
CAELO
Caesar & Loretz GmbH
Herderstr. 31
D-40721 Hilden
GERMANY
- **Further information obtainable from:**
E-mail: info@caelo.de
Tel.: +49210349940 (during regular opening hours)
- **Emergency telephone number:**
Poison Information Center Bonn
Venusberg-Campus 1, 53127 Bonn
Tel: +49 (0) 228-192400

2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**

Flam. Sol. 2	H228 Flammable solid.
Acute Tox. 4	H302 Harmful if swallowed.
Acute Tox. 4	H332 Harmful if inhaled.
Skin Irrit. 2	H315 Causes skin irritation.
Eye Dam. 1	H318 Causes serious eye damage.
STOT SE 3	H335 May cause respiratory irritation.
Aquatic Chronic 3	H412 Harmful to aquatic life with long lasting effects.
- **Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The substance is classified and labelled according to the CLP regulation.

(Contd. on page 2)

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 27.04.2022

Version number 2.00

Revision: 27.04.2022

Trade name: Sodium laurilsulfate

(Contd. of page 1)

Hazard pictograms

GHS02

GHS05

GHS07

Signal word Danger**Hazard statements**

- H228 Flammable solid.
- H302+H332 Harmful if swallowed or 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

- 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/doctor.
- P321 Specific treatment (see on this label).
- P330 Rinse mouth.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards**Results of PBT and vPvB assessment**

- PBT:** Not applicable.
- vPvB:** Not applicable.

3 Composition/information on ingredients

Chemical characterisation: Substances**CAS No. Description**

151-21-3 sodium dodecyl sulphate

Identification number(s)**EC number:** 205-788-1**INCI-Name** SODIUM LAURYL SULFATE

4 First aid measures

Description of first aid measures**After inhalation:**

Bring the person out of the contaminated area to fresh air.
If you feel unwell, seek medical advice.

(Contd. on page 3)



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 27.04.2022

Version number 2.00

Revision: 27.04.2022

Trade name: Sodium laurilsulfate

(Contd. of page 2)

- **After skin contact:**
Take off contaminated clothes and shoes, wash immediately with plenty of water and soap.
- **After eye contact:**
Rinse opened eye for several minutes under running water.
Seek medical advice, even if no immediate symptoms are observed.
- **After swallowing:**
Rinse out mouth and then drink plenty of water.
Call for a doctor immediately.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
All regular extinguishing media can be used.
Use fire extinguishing methods suitable to surrounding conditions.
- **Special hazards arising from the substance or mixture**
Combustible. In case of fire dangerous vapours/gases can be generated: Smoke gases.
Sulfur oxide (SxOy)
- **Advice for firefighters**
- **Protective equipment:** In case of fire wear suitable protective clothes and respiratory protection.
- **Additional information**
Prevent from entering into drains. Fire residues must be disposed in accordance with official regulations.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Avoid formation of dust.
Avoid contact with the substance.
- **Environmental precautions:**
Do not allow to enter sewers/ surface or ground water.
Inform respective authorities in case of seepage into water course or sewage system.
- **Methods and material for containment and cleaning up:**
Dispose contaminated material as waste according to item 13.
Take up dry. Clean up with water.
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.

(Contd. on page 4)



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 27.04.2022

Version number 2.00

Revision: 27.04.2022

Trade name: Sodium laurilsulfate

(Contd. of page 3)

- **Information about fire - and explosion protection:** Keep ignition sources away - Do not smoke.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Tightly closed.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Store in dry conditions.
- **Storage class:** TRHS 510: 4.1 B Flammable solids or desensitizing explosive substances
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:** Not required.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the skin.
Avoid contact with the eyes and skin.
- **Respiratory protection:** Dust protection mask.
- **Protection of hands:** Protective gloves
- **Material of gloves**
Rubber gloves
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Tightly sealed goggles

9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
- **Form:** Powder
- **Colour:** White
- **Odour:** Odourless
- **Odour threshold:** Not determined.
- **pH-value (10 g/l) at 20 °C:** 8.5–10.5
- **Change in condition**
- **Melting point/freezing point:** 205 °C
- **Initial boiling point and boiling range:** 216 °C

(Contd. on page 5)



Safety data sheet

according to 1907/2006/EC, Article 31

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Version number 2.00

Revision: 27.04.2022

Trade name: Sodium laurilsulfate

(Contd. of page 4)

- **Flash point:** 170 °C
 - **Flammability (solid, gas):** Product is not flammable.
 - **Decomposition temperature:** Not determined.
 - **Auto-ignition temperature:** Not determined.
 - **Explosive properties:** Product does not present an explosion hazard.
 - **Explosion limits:**
 - **Lower:** Not determined.
 - **Upper:** Not determined.
 - **Vapour pressure:** Not applicable.
 - **Density at 20 °C:** 0.67 g/cm³
 - **Relative density** Not determined.
 - **Vapour density** Not applicable.
 - **Evaporation rate** Not applicable.
 - **Solubility in / Miscibility with water at 20 °C:** 130 g/l
 - **Partition coefficient: n-octanol/water:** Not determined.
 - **Viscosity:**
 - **Dynamic:** Not applicable.
 - **Kinematic:** Not applicable.
 - **Other information** No further relevant information available.
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10 Stability and reactivity

- **Reactivity** No further relevant information available.
 - **Chemical stability**
 - **Thermal decomposition / conditions to be avoided:** To avoid thermal decomposition do not overheat.
 - **Possibility of hazardous reactions** No dangerous reactions known.
 - **Conditions to avoid** No further relevant information available.
 - **Incompatible materials:** No further relevant information available.
 - **Hazardous decomposition products:** No dangerous decomposition products known.
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11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity**
Harmful if swallowed or if inhaled.
- **LD/LC50 values relevant for classification:**
Oral LD50 1,288 mg/kg (rat)
- **Primary irritant effect:**
- **Skin corrosion/irritation**
Causes skin irritation.

(Contd. on page 6)



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(Contd. of page 5)

- **Serious eye damage/irritation**
Causes serious eye damage.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure**
May cause respiratory irritation.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:**
LC50 29 mg/L /4d (Fish)
3.15–5.55 mg/L /48h (invertebrates)
EC50 120 mg/L /72h (Algae)
135 mg/L /3h (Microorganism)
- **Persistence and degradability** Moderately /partly biodegradable
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **General notes:**
Water hazard class 2 (German Regulation) (Assessment by list): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Must not reach sewage water or drainage ditch undiluted or unneutralised.
Danger to drinking water if even small quantities leak into the ground.
Harmful to aquatic organisms
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to local regulations.

(Contd. on page 7)



Safety data sheet

according to 1907/2006/EC, Article 31

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Trade name: Sodium laurilsulfate

(Contd. of page 6)

14 Transport information

· UN-Number	
· ADR, IMDG, IATA	UN1325
· UN proper shipping name	
· ADR	1325 FLAMMABLE SOLID, ORGANIC, N.O.S. (sodium dodecyl sulphate)
· IMDG	FLAMMABLE SOLID, ORGANIC, N.O.S. (sodium dodecyl sulphate)
· IATA	Flammable solid, organic, n.o.s. (sodium dodecyl sulphate)
· Transport hazard class(es)	
· ADR, IMDG, IATA	
· Class	4.1 Flammable solids, self-reactive substances, polymerizing substances and solid desensitized explosives
· Label	4.1
· Packing group	
· ADR, IMDG, IATA	III
· Environmental hazards:	Not applicable.
· Special precautions for user	Warning: Flammable solids, self-reactive substances, polymerizing substances and solid desensitized explosives
· Hazard identification number (Kemler code):	40
· EMS Number:	F-A,S-G
· Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	5 kg
· Transport category	3
· Tunnel restriction code	E
· IMDG	
· Limited quantities (LQ)	5 kg

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV)** Not listed
- **REGULATION (EC) No 1907/2006 ANNEX XVII**
Not listed
Conditions of restriction: 40
- **National regulations:**
- **Storage of hazardous substances in in nonstationary vessels (TRGS 510) (Germany)**
TRHS 510: 4.1 B Flammable solids or desensitizing explosive substances
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

(Contd. on page 8)



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Trade name: Sodium laurilsulfate

(Contd. of page 7)

16 Other information

The information provided is based on our current level of knowledge. This MSDS has been compiled and is exclusively for this product intended.

· **Reasons for alterations** This version replaces all old versions.

· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Sol. 2: Flammable solids – Category 2

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

· * **Data compared to the previous version altered.**