

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

Printing date 12.01.2023

Version number 3

Revision: 12.01.2023

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

- **1.1 Product identifier**
- **Trade name:** N-Lauroylsarcosine-Na-salt (30 % solution)
- **Article number:** 27570
- **UFI:** YR40-00SE-M001-7PDH
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture:** Laboratory chemicals
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
SERVA Electrophoresis GmbH  
Carl-Benz-Str. 7  
D-69115 Heidelberg  
Tel.: +49 6221 13840-0  
FAX: +49 6221 13840-10  
msds.info@serva.de
- **Information department:** Product Safety department Tel.: +49 6221 13840-35
- **1.4 Emergency telephone number:**  
Medical Emergency Information in case of poisoning:  
Poison Information Center Mainz - Phone: +49 (0) 6131 19240  
(advisory service in German or English language)

**SERVA**  
■ serving scientists ■

**SECTION 2: Hazards identification**

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



GHS05

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Acute Tox. 4 H332 Harmful if inhaled.

Skin Irrit. 2 H315 Causes skin irritation.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008:**  
The product is classified and labelled according to the GB CLP regulation.
- **Hazard pictograms:** GHS05, GHS07
- **Signal word:** Danger
- **Hazard-determining components of labelling:**  
sodium N-lauroylsarcosinate
- **Hazard statements:**  
H332 Harmful if inhaled.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.
- **Precautionary statements**
- P261 Avoid breathing vapours.
- P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
- P302+P352 IF ON SKIN: Wash with plenty of soap and water.

(Contd. on page 2)

GB

# Safety data sheet

## according to 1907/2006/EC, Article 31

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**Trade name: N-Lauroylsarcosine-Na-salt (30 % solution)**

(Contd. of page 1)

- P304+P340 **IF INHALED:** Remove person to fresh air and keep 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.
- P332+P313 **If skin irritation occurs:** Get medical advice/attention.
- **Labelling of packages where the contents do not exceed 125 ml**
  - **Hazard pictograms** GHS05, GHS07
  - **Signal word** Danger
  - **Hazard-determining components of labelling:**  
sodium N-lauroylsarcosinate
  - **Hazard statements**  
H318 Causes serious eye damage.
  - **Precautionary statements**  
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
  - P302+P352 **IF ON SKIN:** Wash with plenty of soap and water.
  - P305+P351+P338 **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - **2.3 Other hazards**
  - **Results of PBT and vPvB assessment:**
  - **PBT:** PBT - assessment not available.
  - **vPvB:** vPvB - assessment not available.

### SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:** Mixture of the substances listed below with harmless additions.

- **Dangerous components:**

CAS: 137-16-6	sodium N-lauroylsarcosinate	20-50%
EINECS: 205-281-5	☠ Acute Tox. 2, H330; ☠ Eye Dam. 1, H318; ⚠ Skin Irrit. 2, H315	

- **Additional information**  
UK REACH Registration No. of Sodium N-Lauroylsarcosinate: 01-2119527780-39  
For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:**  
Remove contaminated clothing.  
Remove breathing apparatus only after contaminated clothing have been completely removed.
- **After inhalation:** Supply fresh air or oxygen; call for doctor.
- **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly. Consult doctor if you feel unwell.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. Remove present contact lenses, if easy to do, and continue rinsing. Consult ophthalmologist immediately.
- **After swallowing:**  
Wash out mouth. Call a doctor immediately.  
Do not induce vomiting!
- **4.2 Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

GB

(Contd. on page 3)

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

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Revision: 12.01.2023

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(Contd. of page 2)

**SECTION 5: Firefighting measures**

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **5.2 Special hazards arising from the substance or mixture:**  
In case of fire, the following can be formed, but not limited to:  
Carbon monoxide and carbon dioxide  
Nitrogen oxides (NO<sub>x</sub>)
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.

**SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective clothing.  
Ensure adequate ventilation  
Avoid contact with the eyes and skin.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up**  
Dispose contaminated material as waste according to item 13.  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **6.4 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.

**SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling:**  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.
- **Information about protection against explosions and fires:**  
Keep ignition sources away - Do not smoke.  
Keep respiratory protective device available.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed and store in dry conditions.
- **7.3 Specific end use(s):** No further relevant information available.

**SECTION 8: Exposure controls/personal protection**

- **8.1 Control parameters**
- **Components with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **DNELs**  
DNEL's for Sodium N-lauroylsarcosinate  
worker (inhalative, long term-systemic effects): 70,53 mg / m<sup>3</sup>  
worker (dermal, long term-systemic effects): 20 mg / kg
- **PNECs**  
PNEC's for Sodium N-lauroylsarcosinate  
PNEC fresh water: 0,0297 mg / l  
PNEC fresh water sediment: 0,034 mg / l

(Contd. on page 4)

**Safety data sheet**  
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Revision: 12.01.2023

**Trade name: N-Lauroylsarcosine-Na-salt (30 % solution)**

(Contd. of page 3)

PNEC marine water: 0,003 mg / l

PNEC soil: 0,012 mg / kg dwt

PNEC sewage treatment plant STP: 10 mg / l

· **Additional information:** The lists that were valid during the creation were used as basis.

· **8.2 Exposure controls**

· **Appropriate engineering controls:** No further data; see item 7.

· **Individual protection measures, such as personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Store protective clothing separately.

Immediately remove all soiled and contaminated clothing

Avoid contact with the eyes and skin.

Wash hands before breaks and at the end of work.

Avoid contact with the skin.

· **Breathing equipment:**

Short term filter device:

Filter P2.

· **Hand protection:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Protective gloves.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of 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.

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **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.

· **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**

Natural rubber, NR

Nitrile rubber, NBR

PVC gloves

· **Eye/face protection:** Tightly sealed goggles.

· **Body protection:** Protective work clothing.

**SECTION 9: Physical and chemical properties**

· **9.1 Information on basic physical and chemical properties**

· **General Information:**

· **Physical state:**

Fluid

· **Colour:**

Yellowish

· **Odour:**

Odourless

· **Odour threshold:**

Not determined.

· **Melting point/freezing point:**

no information available

· **Boiling point or initial boiling point and boiling range:**

100 °C

· **Flammability:**

no information available

(Contd. on page 5)

GB

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Version number 3

Revision: 12.01.2023

Trade name: *N-Lauroylsarcosine-Na-salt (30 % solution)*

(Contd. of page 4)

· <b>Lower and upper explosion limit:</b>	
· <b>Lower:</b>	no information available
· <b>Upper:</b>	no information available
· <b>Flash point:</b>	no information available
· <b>Decomposition temperature:</b>	no information available
· <b>pH at 20 °C:</b>	7.5-8.5
· <b>Viscosity:</b>	
· <b>Kinematic viscosity:</b>	no information available
· <b>Dynamic viscosity:</b>	no information available
· <b>Solubility:</b>	
· <b>Water:</b>	Fully miscible
· <b>Partition coefficient n-octanol/water (log value):</b>	no information available
· <b>Vapour pressure:</b>	no information available
· <b>Density and/or relative density:</b>	
· <b>Density at 20 °C:</b>	1.03 g/cm <sup>3</sup>
· <b>Relative density:</b>	no information available

· **9.2 Other information**

· <b>Appearance:</b>	
· <b>Form:</b>	Liquid
· <b>Important information on protection of health and environment, and on safety:</b>	
· <b>Explosive properties:</b>	Product does not present an explosion hazard.
· <b>VOC %:</b>	0.00 %

### SECTION 10: Stability and reactivity

- **10.1 Reactivity:** No further relevant information available.
- **10.2 Chemical stability:**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions:** No further relevant informations available.
- **10.4 Conditions to avoid:** No further relevant information available.
- **10.5 Incompatible materials:** Avoid contact with oxidizers.
- **10.6 Hazardous decomposition products:** In case of fire: See Section 5

### SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:**
- **Acute toxicity:** Harmful if inhaled.
- **Skin corrosion/irritation:** Causes skin irritation.
- **Serious eye damage/irritation:** Causes serious eye damage.
- **Respiratory or skin sensitisation:** Based on available data, the classification criteria are not met.
- **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:** Based on available data, the classification criteria are not met.
- **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.
- **11.2 Information on other hazards:**

· **Endocrine disrupting properties:**

None of the ingredients is listed.

GB

(Contd. on page 6)

**Safety data sheet**  
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Version number 3

Revision: 12.01.2023

Trade name: N-Lauroylsarcosine-Na-salt (30 % solution)

(Contd. of page 5)

### SECTION 12: Ecological information

- **12.1 Toxicity:**
  - **Aquatic toxicity:**  
EC50 (3h, microorganisms, fresh water, OECD 209) for sodium N-lauroylsarkonisate: > 1000 mg / l
- |   |                           |
|---|---------------------------|
| <b>137-16-6 sodium N-lauroylsarcosinate</b> |                           |
| EC50/48h                                    | 8.91 mg/l (Daphnia magna) |
- **12.2 Persistence and degradability:**  
Biological degradability (ISO 14593) for Sodium N-lauroylsarcosinate: 82 % in 28d
  - **12.3 Bioaccumulative potential:** No further relevant information available.
  - **12.4 Mobility in soil:** No further relevant information available.
  - **12.5 Results of PBT and vPvB assessment:**
  - **PBT:** PBT - assessment not available.
  - **vPvB:** vPvB - assessment not available.
  - **12.6 Endocrine disrupting properties:** For information on endocrine disrupting properties see section 11.
  - **12.7 Other adverse effects:**
  - **Additional ecological information:**
  - **General notes:**  
Do not allow product to reach ground water, water course or sewage system.  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
Disposal must be made according to official regulations.  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:**  
Disposal of uncleaned packagings must be made according to official regulations in the same manner as the product.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

### SECTION 14: Transport information

- |   |                 |
|---|-----------------|
| · <b>14.1 UN number or ID number</b>                                  |                 |
| · ADR, ADN, IMDG, IATA  | Void            |
| · <b>14.2 UN proper shipping name</b>                                 |                 |
| · ADR, ADN, IMDG, IATA  | Void            |
| · <b>14.3 Transport hazard class(es)</b>                              |                 |
| · ADR, ADN, IMDG, IATA  |                 |
| · Class:  | Void            |
| · <b>14.4 Packing group</b>   |                 |
| · ADR, IMDG, IATA   | Void            |
| · <b>14.5 Environmental hazards</b>                                   |                 |
| · Marine pollutant:   | No              |
| · <b>14.6 Special precautions for user</b>                            | Not applicable. |
| · <b>14.7 Maritime transport in bulk according to IMO instruments</b> | Not applicable. |

(Contd. on page 7)

GB



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(Contd. of page 6)

- |  |  |
|--|--|
| · <b>Transport/Additional information:</b> | Not dangerous according to the above specifications. |
| · <b>UN "Model Regulation":</b>            | Void   |

**SECTION 15: Regulatory information**

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

- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

· **REGULATION (EU) 2019/1148**

· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

· **Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

· **National regulations:**

- **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H330 Fatal if inhaled.

· **Department issuing SDS:** Product safety department

· **Contact:** +49 6221 13840-35

· **Date of previous version:** 05.02.2018

· **Abbreviations and acronyms:**

- RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
- ICAO: International Civil Aviation Organisation
- PBT: persistent, bioaccumulative, toxic substance (UK REACH)
- vPvB: very persistent, very bioaccumulative substance (UK REACH)
- UK REACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals
- GB CLP: Regulation on classification, labelling and packaging of substances and mixtures
- bw: body weight
- 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

(Contd. on page 8)

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**Trade name: N-Lauroylsarcosine-Na-salt (30 % solution)**

(Contd. of page 7)

*EINECS: European Inventory of Existing Commercial Chemical Substances*  
*ELINCS: European List of Notified Chemical Substances*  
*CAS: Chemical Abstracts Service (division of the American Chemical Society)*  
*DNEL: Derived No-Effect Level (UK REACH)*  
*PNEC: Predicted No-Effect Concentration (UK REACH)*  
*PBT: Persistent, Bioaccumulative and Toxic*  
*vPvB: very Persistent and very Bioaccumulative*  
*Acute Tox. 2: Acute toxicity – 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*

GB