

# SAFETY DATA SHEET

Creation Date 08-Apr-2009

Revision Date 20-Dec-2025

Revision Number 6

This safety data sheet was created pursuant to the requirements of: US OSHA Hazard Communication Standard 2024 (29 CFR 1910.1200)

## 1. Identification

**Product Name** N-Lauroylsarcosine sodium salt

**Cat No. :** AC434370000, AC434370010, AC434370250, AC434371000

**CAS No** 137-16-6

**Synonyms** N-Lauroylsarcosine sodium; Sodium lauroyl sarcosinate; N-Dodecanoyl-N-methylglycine sodium salt

**Recommended Use** Laboratory chemicals.

**Uses advised against** Food, drug, pesticide or biocidal product use.

### Details of the supplier of the safety data sheet

#### Company

Fisher Scientific Company  
One Reagent Lane  
Fair Lawn, NJ 07410  
Tel: (201) 796-7100

Acros Organics  
One Reagent Lane  
Fair Lawn, NJ 07410

#### **Emergency Telephone Number**

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11  
Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99  
**CHEMTREC** Tel. No. **US**:001-800-424-9300 / **Europe**:001-703-527-3887

## 2. Hazard(s) identification

### Classification

This chemical is considered hazardous according to [US] OSHA (29 CFR 1910.1200, 2024)

|   |            |
|---|------------|
| Acute Inhalation Toxicity - Dusts and Mists | Category 2 |
| Skin Corrosion/Irritation                   | Category 2 |
| Serious Eye Damage/Eye Irritation           | Category 1 |

### Label Elements

#### **Signal Word**

Danger

#### **Hazard Statements**

Causes skin irritation

Causes serious eye damage  
Fatal if inhaled



### Precautionary Statements

#### Prevention

Do not breathe dust/fume/gas/mist/vapors/spray  
Use only outdoors or in a well-ventilated area  
Wear respiratory protection  
Wash face, hands and any exposed skin thoroughly after handling  
Wear protective gloves/protective clothing/eye protection/face protection

#### Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing  
Immediately call a POISON CENTER or doctor

#### Skin

IF ON SKIN: Wash with plenty of soap and water  
If skin irritation occurs: Get medical advice/attention  
Take off contaminated clothing

#### Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
Immediately call a POISON CENTER or doctor/physician

#### Storage

Store in a well-ventilated place. Keep container tightly closed  
Store locked up

#### Disposal

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

None identified

#### Hazards classified under paragraph (d)(1)(ii) of 1910.1200

No information available

## 3. Composition/information on Ingredients

| Component                  | CAS No   | Weight % |
|----------------------------|----------|----------|
| Sodium lauroyl sarcosinate | 137-16-6 | >95      |

## 4. First-aid measures

#### General Advice

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

#### Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

#### Skin Contact

Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.

#### Inhalation

Remove to fresh air. If not breathing, give artificial respiration. Do not use mouth-to-mouth

method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.

**Ingestion** Do NOT induce vomiting. Call a physician or poison control center immediately.

**Most important symptoms and effects** Causes severe eye damage.

**Notes to Physician** Treat symptomatically

## 5. Fire-fighting measures

**Suitable Extinguishing Media** Water spray, carbon dioxide (CO<sub>2</sub>), dry chemical, alcohol-resistant foam.

**Unsuitable Extinguishing Media** No information available

**Flash Point** Not applicable 267 °C / 512.6 °F

**Method -** CC (closed cup)

**Autoignition Temperature** No information available

**Explosion Limits**

**Upper** No data available

**Lower** No data available

**Sensitivity to Mechanical Impact** No information available

**Sensitivity to Static Discharge** No information available

**Specific Hazards Arising from the Chemical**

Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

**Hazardous Combustion Products**

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NO<sub>x</sub>). Sodium oxides.

**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

**NFPA**

**Health**  
4

**Flammability**  
1

**Instability**  
1

**Physical hazards**  
N/A

## 6. Accidental release measures

**Personal Precautions** Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas.

**Environmental Precautions** Should not be released into the environment.

**Methods for Containment and Clean Up** Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

## 7. Handling and Storage

**Handling** Wear personal protective equipment/face protection. Avoid dust formation. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not breathe (dust, vapor, mist, gas). Do not ingest. If swallowed then seek immediate medical assistance.

**Storage.** Keep containers tightly closed in a dry, cool and well-ventilated place. To maintain product quality. Handle and store contents under nitrogen. Protect from moisture. Incompatible Materials. Strong oxidizing agents.

## 8. Exposure controls / personal protection

|   |   |
|---|---|
| <b><u>Exposure Guidelines</u></b>           | This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.   |
| <b>Engineering Measures</b>                 | Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.   |
| <b><u>Personal Protective Equipment</u></b> |   |
| <b>Eye/face Protection</b>                  | Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.   |
| <b>Skin and body protection</b>             | Wear appropriate protective gloves and clothing to prevent skin exposure.   |
| <b>Respiratory Protection</b>               | Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. |
| <b>Recommended Filter type:</b>             | Particulates filter conforming to EN 143.   |
| <b>Hygiene Measures</b>                     | Handle in accordance with good industrial hygiene and safety practice.  |

## 9. Physical and chemical properties

|  |   |
|--|---|
| <b><u>Appearance</u></b>                       |   |
| <b>Physical State</b>                          | Solid   |
| <b>Color</b>                                   | White   |
| <b>Odor</b>                                    | Odorless  |
| <b>Odor Threshold</b>                          | No information available                          |
| <b><u>Property</u></b>                         | <b><u>Values</u></b>                              |
| <b>Melting Point/Range</b>                     | 126 - 129 °C / 258.8 - 264.2 °F                   |
| <b>Softening Point</b>                         | No data available                                 |
| <b>Boiling Point/Range</b>                     | No information available                          |
| <b>Flash Point</b>                             | Not applicable 267 °C / 512.6 °F                  |
| <b>Flammability (liquid)</b>                   | Not applicable                                    |
| <b>Flammability (solid,gas)</b>                | No information available                          |
| <b>Explosion Limits</b>                        | No data available                                 |
| <b>Autoignition Temperature</b>                | No data available                                 |
| <b>Decomposition Temperature</b>               | No data available                                 |
| <b>pH</b>                                      | 7.5 - 8.5 (10 %)                                  |
| <b>Viscosity</b>                               | Not applicable                                    |
| <b>Water Solubility</b>                        | Soluble   |
| <b>Solubility in other solvents</b>            | No information available                          |
| <b>Partition Coefficient (n-octanol/water)</b> |   |
| <b>Vapor Pressure</b>                          | No information available                          |
| <b>Density / Specific Gravity</b>              | 1.141 g/cm <sup>3</sup>                           |
| <b>Bulk Density</b>                            | No data available                                 |
| <b>Vapor Density</b>                           | Not applicable                                    |
| <b>Particle characteristics</b>                | No data available                                 |
| <b><u>Other Information</u></b>                |   |
| <b>Molecular Formula</b>                       | C <sub>15</sub> H <sub>28</sub> O <sub>3</sub> Na |
| <b>Molecular Weight</b>                        | 293.38  |

Evaporation Rate Not applicable - Solid

## 10. Stability and reactivity

**Reactive Hazard** None known, based on information available

**Stability** Stable under recommended storage conditions. Hygroscopic.

**Conditions to Avoid** Avoid dust formation. Incompatible products. Excess heat. Exposure to moisture.

**Incompatible Materials** Strong oxidizing agents

**Hazardous Decomposition Products** Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Nitrogen oxides (NO<sub>x</sub>), Sodium oxides

**Hazardous Polymerization** Hazardous polymerization does not occur.

**Hazardous Reactions** None under normal processing.

## 11. Toxicological information

### Information on expected route of exposure

**Inhalation** May cause irritation of respiratory tract. May be harmful if inhaled.

**Ingestion** May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Eyes** May cause irritation.

**Skin** May cause irritation. May be harmful in contact with skin.

### Toxicology data for the components

| Component                  | LD50 Oral          | LD50 Dermal | LC50 Inhalation             |
|----------------------------|--------------------|-------------|-----------------------------|
| Sodium lauroyl sarcosinate | > 5000 mg/kg (Rat) | -           | 0.05 - 0.5 mg/kg (Rat - 4h) |

**Toxicologically Synergistic Products** No information available

**(b) skin corrosion/irritation;** Category 2

**(c) serious eye damage/irritation;** Category 1

**(d) respiratory or skin sensitization;**

**Respiratory** No data available

**Skin** No data available

**(e) germ cell mutagenicity;** No data available

**(f) carcinogenicity;**

The table below indicates whether each agency has listed any ingredient as a carcinogen

| Component                  | CAS No   | IARC       | NTP        | ACGIH      | OSHA       | Mexico     |
|----------------------------|----------|------------|------------|------------|------------|------------|
| Sodium lauroyl sarcosinate | 137-16-6 | Not listed |

**(g) reproductive toxicity;** No data available

(h) STOT-single exposure; No data available

(i) STOT-repeated exposure; No data available

Target Organs No information available.

(j) aspiration hazard; Not applicable  
Solid

Symptoms / effects,both acute and delayed No information available.

Other Adverse Effects The toxicological properties have not been fully investigated.

Endocrine Disrupting Properties This product does not contain any known or suspected endocrine disruptors.

## 12. Ecological information

### Ecotoxicity

Do not empty into drains. .

| Component                  | Freshwater Algae | Freshwater Fish   | Microtox   | Water Flea         |
|----------------------------|------------------|-------------------|------------|--------------------|
| Sodium lauroyl sarcosinate | Not listed       | 107 mg/L EC50 96h | Not listed | 29.7 mg/L LC50 48h |

Persistence and Degradability No information available

Bioaccumulation/ Accumulation No information available.

Mobility No information available.

## 13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

## 14. Transport information

### DOT

UN-No UN2811  
 Proper Shipping Name Toxic solid, organic, n.o.s.  
 Technical Shipping Name Glycine, N-methyl-N-(1-oxododecyl)-, sodium salt  
 Hazard Class 6.1  
 Packing Group II

### TDG

UN-No UN2811  
 Proper Shipping Name Toxic solid, organic, n.o.s.  
 Technical Shipping Name Glycine, N-methyl-N-(1-oxododecyl)-, sodium salt  
 Hazard Class 6.1  
 Packing Group II

### IATA

UN-No UN2811  
 Proper Shipping Name Toxic solid, organic, n.o.s.  
 Technical Shipping Name Glycine, N-methyl-N-(1-oxododecyl)-, sodium salt  
 Hazard Class 6.1  
 Packing Group II

### IMDG/IMO

UN-No UN2811

|                                |  |
|--------------------------------|--|
| <b>Proper Shipping Name</b>    | Toxic solid, organic, n.o.s.                     |
| <b>Technical Shipping Name</b> | Glycine, N-methyl-N-(1-oxododecyl)-, sodium salt |
| <b>Hazard Class</b>            | 6.1  |
| <b>Packing Group</b>           | II   |

## 15. Regulatory Information

### United States of America Inventory

| Component                  | CAS No   | TSCA | TSCA Inventory notification - Active-Inactive | TSCA - EPA Regulatory Flags |
|----------------------------|----------|------|---|-----------------------------|
| Sodium lauroyl sarcosinate | 137-16-6 | X    | ACTIVE  | -                           |

**Legend:**

**TSCA** US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

**TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT)** Not applicable

**TSCA 12(b)** - Notices of Export Not applicable

### International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

| Component                  | CAS No   | DSL | NDSL | EINECS    | PICCS | ENCS | ISHL | AICS | IECSC | KECL     |
|----------------------------|----------|-----|------|-----------|-------|------|------|------|-------|----------|
| Sodium lauroyl sarcosinate | 137-16-6 | X   | -    | 205-281-5 | X     | X    | X    | X    | X     | KE-21878 |

**KECL** - NIER number or KE number (<http://ncis.nier.go.kr/en/main.do>)

### U.S. Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### **SARA 311/312 Hazard Categories**

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

**CWA (Clean Water Act)** Not applicable

**Clean Air Act** Not applicable

**OSHA** - Occupational Safety and Health Administration Not applicable

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**California Proposition 65** This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know** Not applicable

**Regulations****U.S. Department of Transportation**

Reportable Quantity (RQ): N  
 DOT Marine Pollutant N  
 DOT Severe Marine Pollutant N

**U.S. Department of Homeland Security** This product does not contain any DHS chemicals.

**Other International Regulations**

**Mexico - Grade** No information available

**Authorisation/Restrictions according to EU REACH** Not applicable

| Component                  | CAS No   | REACH (1907/2006) - Annex XIV - Substances Subject to Authorization | REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances | REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC) |
|----------------------------|----------|---|---|---|
| Sodium lauroyl sarcosinate | 137-16-6 | -   | -   | -   |

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

| Component                  | CAS No   | OECD HPV       | Persistent Organic Pollutant | Ozone Depletion Potential | Restriction of Hazardous Substances (RoHS) |
|----------------------------|----------|----------------|------------------------------|---------------------------|--|
| Sodium lauroyl sarcosinate | 137-16-6 | Not applicable | Not applicable               | Not applicable            | Not applicable                             |

**Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)?**

Not applicable

**Other International Regulations**

| Component                  | CAS No   | Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification | Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements | Rotterdam Convention (PIC) | Basel Convention (Hazardous Waste) |
|----------------------------|----------|---|--|----------------------------|------------------------------------|
| Sodium lauroyl sarcosinate | 137-16-6 | Not applicable  | Not applicable   | Not applicable             | Not applicable                     |

## 16. Other Information

**Prepared By** Product stewardship (Regulatory Affairs)  
 Thermo Fisher Scientific  
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**Creation Date** 08-Apr-2009  
**Revision Date** 20-Dec-2025  
**Print Date** 20-Dec-2025  
**Revision Summary** Updated to the U.S. Department of Labor's Occupational Safety and Health Administration (OSHA) which published its Final Rule in the Federal Register revising the Hazard Communication Standard (HCS/HazCom), 29 CFR 1910.1200 (2024) (HCS §1910.1200, 2024), May 20, 2024, effective July 19, 2024.

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of SDS**