

## Safety Data Sheet SODIUM LAURYL SULFATE

SDS no. L9P34LM6 • Version 1.0 • Date of issue: 2025-11-09

### SECTION 1: Identification

#### GHS Product identifier

Product name SODIUM LAURYL SULFATE

#### Other means of identification

Product Product Code

SODIUM LAURYL SULFATE LR  
Sodium dodecyl sulfate,  
Dodecyl sodium sulfate, SDS

SL078

#### Recommended use of the chemical and restrictions on use

Wetting agent in textile industry, detergent in toothpaste, surface-active agent in shampoo, dispersing agent in creams, lotions and medical preparations, food additive (thickener and emulsifier), electrophoretic separation of proteins and lipids and laboratory reagent.

#### Supplier's details

Name ChemSupply Australia Pty Ltd  
Address 38-50 Bedford Street  
5013 Gillman South Australia  
Australia

Telephone 08 8440 2000  
email [www.chemsupply.com.au](http://www.chemsupply.com.au)

#### Emergency phone number

CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)

### SECTION 2: Hazard identification

#### General hazard statement

Classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).

Classified as Hazardous according to the Globally Harmonised System of classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

#### Classification of the substance or mixture

#### GHS classification in accordance with: UN GHS revision 7

- Acute toxicity, inhalation, Cat. 4
- Acute toxicity, oral, Cat. 4
- Serious eye damage/eye irritation, Cat. 1
- Flammable solids, Cat. 2
- Skin corrosion/irritation, Cat. 2

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- Specific target organ toxicity following single exposure, Cat. 3

### GHS label elements, including precautionary statements

#### Pictograms



#### Signal word

**Danger**

#### Hazard statement(s)

H228  
H302  
H315  
H318  
H332  
H335

Flammable solid  
Harmful if swallowed  
Causes skin irritation  
Causes serious eye damage  
Harmful if inhaled  
May cause respiratory irritation

#### Precautionary statement(s)

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P240

Ground and bond container and receiving equipment.

P241

Use explosion-proof [electrical/ventilating/lighting/...] equipment.

P261

Avoid breathing dust/fume/gas/mist/vapors/spray.

P264

Wash hands thoroughly after handling.

P273

Avoid release to the environment.

P280

Wear protective gloves/protective clothing/eye protection/face protection.

P301+P312

IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell,

P302+P352

IF ON SKIN: Wash with plenty of water/soap

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.

P310

Immediately call a POISON CENTER/doctor/physician

P362+P364

Take off contaminated clothing and wash it before reuse.

P370+P378

In case of fire: Use agents recommended in Section 5 of SDS for extinction

P403+P233

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

P501

Dispose of contents/container to an approved waste disposal facility

## SECTION 3: Composition/information on ingredients

### Mixtures

<b>Molecular weight</b>	288.38
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<b>Component</b>	<b>Identification</b>	<b>Weight %</b>
Sodium dodecyl sulfate	CAS no.: 151-21-3 EC no.: 205-788-1	90 - 100 %

## SECTION 4: First-aid measures

### Description of necessary first-aid measures

General advice

First Aid Facilities: Maintain eyewash fountain in work area.

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If inhaled	If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.
In case of skin contact	Rinse with plenty of water. Get medical attention if irritation develops and persists.
In case of eye contact	If in eyes, hold eyelids apart and flush eye continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre (e.g. phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor, or for at least 15 minutes.
If swallowed	Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek medical advice if effects persist.

#### Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

#### Indication of immediate medical attention and special treatment needed, if necessary

For advice, contact the National Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

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## SECTION 5: Fire-fighting measures

#### Suitable extinguishing media

Small fire: Use foam, dry chemical, CO2 or water spray.

Large fire: Use water spray, fog or foam. If safe to do so, move undamaged containers from the area. Cool containers with flooding quantities of water until well after the fire is out.

#### Specific hazards arising from the chemical

Hazards from Combustion Products: Hydrogen sulfide and oxides of carbon and sulfur.

#### Special protective actions for fire-fighters

Wear SCBA and chemical splash suit. Structural firefighter's uniform may provide limited protection.

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## SECTION 6: Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

Evacuate the area of all non-essential personnel. Avoid substance contact.

Avoid generation of dusts: do not inhale dusts. Ensure supply of fresh air in enclosed rooms.

Wear protective clothing specified for normal operations (see Section 8)

#### Methods and materials for containment and cleaning up

[7U] Clean-up Methods - Large Spillages: ELIMINATE all ignition sources (no smoking, flares, sparks or flames) within at least 15m. Do not touch or walk through spilled material. Prevent entry into waterways, drains or confined areas. Prevent dust cloud. Use clean non-sparking tools to collect absorbed material and place it into loosely-covered metal or plastic containers for later disposal. SEEK EXPERT ADVICE ON HANDLING AND DISPOSAL.

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## SECTION 7: Handling and storage

#### Precautions for safe handling

Avoid substance contact and generation and inhalation of dust. Wash hands and face thoroughly after working with material.

Use non-sparking tools.

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### Conditions for safe storage, including any incompatibilities

Store in well ventilated area. Store away from oxidizing agents. Keep containers securely sealed and protected against physical damage. Keep dry and protect from direct sunlight. Store at room temperature (15 - 25 °C).

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## SECTION 8: Exposure controls/personal protection

### Appropriate engineering controls

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

### Individual protection measures, such as personal protective equipment (PPE)

#### Eye/face protection

The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.

#### Skin protection

Clean impervious clothing should be worn. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

#### Body protection

Footwear: Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.

Body Protection: Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

#### Respiratory protection

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/ mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements. Reference should be made to Australian Standards AS/ NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/ NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

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## SECTION 9: Physical and chemical properties

### Basic physical and chemical properties

Physical state	Solid
Appearance	White or light yellow crystals or powder.
Color	white to light yellow
Odor	Almost odourless.
Odor threshold	
Melting point/freezing point	204 - 207 °C
Boiling point or initial boiling point and boiling range	No data available.
Flammability	No data available.
Lower and upper explosion limit/ flammability limit	No data available.
Flash point	>150 °C (O.C.)

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Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
pH	6-9 (10 g/l, H <sub>2</sub> O)
Kinematic viscosity	No data available.
Solubility	Solubility in Water: Soluble in water (150g/L @ 20 °C), forming an opalescent solution. Solubility in Organic Solvents: Soluble in isopropyl alcohol and xylene.
Partition coefficient n-octanol/ water (log value)	Log P(o/w) = 1.60 (experimental)
Vapor pressure	No data available.
Density and/or relative density	Specific Gravity: 0.37
Relative vapor density	No data available.
Particle characteristics	No data available.

#### Further safety characteristics (supplemental)

Other Information: Dynamic Viscosity: 0.5-8.0 Pa.s @ 25 °C (liquid); 25-50 Pa.s @ 25 °C (paste)

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## SECTION 10: Stability and reactivity

#### Reactivity

Stable under normal conditions of storage and handling.

#### Chemical stability

Stable. Hygroscopic.

#### Possibility of hazardous reactions

Contact with strong oxidising agents increases risk of fire.

Hazardous Polymerization: Will not occur.

#### Conditions to avoid

Heating, flames, and sparks. Extremes of temperature and direct sunlight.

#### Incompatible materials

Strong acids, strong alkali and strong oxidising agents.

#### Hazardous decomposition products

May liberate toxic fumes in fire including carbon oxides, sulphur oxides and sodium oxides.

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## SECTION 11: Toxicological information

#### Information on toxicological effects

##### Acute toxicity

Acute Toxicity - Oral: LD<sub>50</sub> Oral - Rat - female - 977 mg/kg  
(OECD Test Guideline 401)

Ingestion: Harmful if swallowed. May cause respiratory tract and stomach irritation, nausea and diarrhoea.

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Inhalation: Irritating to the nose, throat and upper respiratory tract. Symptoms include coughing, dry throat, difficulty in breathing, nasal congestion and headaches.

#### **Skin corrosion/irritation**

Acute Toxicity - Dermal: LD50 Dermal - Rat - male and female - > 2,000 mg/kg  
(OECD Test Guideline 402)

Irritating to skin. Harmful in contact with skin and if absorbed through skin.

#### **Serious eye damage/irritation**

Causes serious eye damage. May cause burning sensation and severe corrosive injury.

Serious eye damage/irritation: Eye Damage/Irritation: Category 1  
H318 Causes serious eye damage.

#### **Respiratory or skin sensitization**

Not classified based on available information.

#### **Germ cell mutagenicity**

Not classified based on available information.

#### **Carcinogenicity**

Not classified based on available information.

#### **Reproductive toxicity**

Not classified based on available information.

#### **Specific target organ toxicity (STOT) - single exposure**

Category 3  
H335 May cause respiratory irritation.

#### **Specific target organ toxicity (STOT) - repeated exposure**

Not classified based on available information.

#### **Aspiration hazard**

Not classified based on available information.

#### **Additional information**

Chronic Effects: Prolonged or repeated skin contact may cause dermatitis.

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## SECTION 12: Ecological information

#### **Toxicity**

Acute Toxicity - Fish: flow-through test LC50 - Pimephales promelas (fathead minnow) - 29 mg/l - 96 h  
(OECD Test Guideline 203)

Acute Toxicity - Daphnia: flow-through test LC50 - Ceriodaphnia dubia (water flea) - 5.55 mg/l - 48 h  
(OECD Test Guideline 202)

#### **Persistence and degradability**

Biodegradation: 95%/28 d (closed bottle test); Readily biodegradable.

#### **Bioaccumulative potential**

No appreciable bioaccumulation potential is to be expected (log P(o/w) 1-3).

BOD: 95.9% (OECD Test Guideline 301B)

COD: 95.1%

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## SECTION 13: Disposal considerations

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### Disposal methods

#### Product disposal

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers.

#### Sewage disposal

No appreciable bioaccumulation potential is to be expected (log P(o/w) 1-3).

BOD: 95.9% (OECD Test Guideline 301B)

COD: 95.1%

#### Other disposal recommendations

Do not discharge this material into waterways, drains and sewers.

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## SECTION 14: Transport information

### ADG (Road and Rail)

UN Number: 1325

Class: 4.1

Packing Group: III

Proper Shipping Name: FLAMMABLE SOLID, ORGANIC, N.O.S. (Contains SODIUM LAURYL SULPHATE)

### Hazchem emergency action code (EAC)

1Z

### IMDG

UN Number: 1325

Class: 4.1

Packing Group: III

Proper Shipping Name: FLAMMABLE SOLID, ORGANIC, N.O.S. (Contains SODIUM LAURYL SULPHATE)

### IATA

UN Number: 1325

Class: 4.1

Packing Group: III

Proper Shipping Name: FLAMMABLE SOLID, ORGANIC, N.O.S. (Contains SODIUM LAURYL SULPHATE)

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## SECTION 15: Regulatory information

### Safety, health and environmental regulations specific for the product in question

#### Australia SUSMP

Poison Schedule: NS

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## SECTION 16: Other information

### Further information/disclaimer

ChemSupply Australia Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon ChemSupply Australia Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of ChemSupply Australia Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

### Preparation information

All information provided in this data sheet or by our technical representatives is compiled from the best knowledge available to us. However, since data, safety standards and government regulations are subject to change and the conditions of handling and use, or

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misuse, are beyond our control, we make no warranty either expressed or implied, with respect to the completeness or accuracy to the information contained herein. ChemSupply Australia Pty Ltd accepts no responsibility whatsoever for its accuracy or for any results that may be obtained by customers from using the data and disclaims all liability for reliance on information provided in this data sheet or by our technical representatives.

Standard for the Uniform Scheduling of Medicines and Poisons, Commonwealth of Australia

National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.'

Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals', July 2020.

Safe Work Australia, 'National Guide for Classifying Hazardous Chemicals', July 2020.

Safe Work Australia, Workplace Exposure Standards for Airborne Contaminants, December 2019

Safe Work Australia, Hazardous Chemical Information System (HCIS), [hcis.safeworkaustralia.gov.au](http://hcis.safeworkaustralia.gov.au)

IATA, Dangerous Goods Regulations (DGR)

IMO, International Maritime Dangerous Goods Code (IMDG)