

Material Safety Data Sheet (MSDS)

Product Name: Sodium Lauryl Sulphate Food Grade

MSDS Generate Date: 20-05-2017

Revision Date: 30-12-2024

Supplier:

Rawpharma Biz Pvt Ltd

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1. Identification of the Substance/Preparation and Company

Product Name: Sodium Lauryl Sulphate (SLS) Food Grade

Synonyms: Sodium Dodecyl Sulphate, SDS

Chemical Formula: $C_{12}H_{25}NaO_4S$

CAS No.: 151-21-3

EINECS No.: 205-788-1

Recommended Use: Used as a surfactant, foaming agent, and emulsifier in food processing, beverages, and cosmetic formulations.

2. Hazards Identification

Classification (According to GHS):

- Skin irritation: Category 2
- Eye irritation: Category 2A
- Acute toxicity (Oral): Category 4

Signal Word: *Warning*

Hazard Statements:

- H315: Causes skin irritation.
- H319: Causes serious eye irritation.
- H302: Harmful if swallowed.

Precautionary Statements:

- P264: Wash thoroughly after handling.
- P280: Wear protective gloves/eye protection.
- P305+P351+P338: If in eyes, rinse cautiously with water for several minutes.

3. Composition / Information on Ingredients

Chemical Name: Sodium Lauryl Sulphate

Purity: ≥ 98%

Chemical Formula: C₁₂H₂₅NaO₄S

CAS Number: 151-21-3

4. First Aid Measures

Inhalation: Move to fresh air. Seek medical attention if symptoms persist.

Skin Contact: Wash with plenty of water. Remove contaminated clothing.

Eye Contact: Rinse immediately with clean water for at least 15 minutes and seek medical attention.

Ingestion: Rinse mouth with water. Do not induce vomiting. Seek medical advice.

5. Firefighting Measures

Suitable Extinguishing Media: Water spray, dry chemical powder, CO₂, or foam.

Specific Hazards: Product may produce toxic fumes (sulfur oxides, carbon oxides) when burned.

Protective Equipment: Firefighters should wear self-contained breathing apparatus.

6. Accidental Release Measures

Personal Precautions: Avoid dust formation; wear protective gloves and mask.

Environmental Precautions: Prevent further leakage or spillage. Avoid discharge into drains.

Clean-up Method: Sweep up and place in a suitable container for disposal.

7. Handling and Storage

Handling: Avoid contact with skin, eyes, and clothing. Use in a well-ventilated area.

Storage: Store in a cool, dry, and well-ventilated place. Keep container tightly closed. Protect from moisture and direct sunlight.

8. Exposure Controls / Personal Protection

Engineering Controls: Ensure adequate ventilation.

Personal Protective Equipment:

- **Eye Protection:** Safety goggles
 - **Skin Protection:** Protective gloves and clothing
 - **Respiratory Protection:** Dust mask when exposure limits are exceeded
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9. Physical and Chemical Properties

- **Appearance:** White to off-white powder or needles
 - **Odor:** Mild, characteristic odor
 - **Solubility:** Soluble in water
 - **pH (1% Solution):** 7 – 9.5
 - **Melting Point:** 204–207°C
 - **Boiling Point:** Not applicable
 - **Density:** ~1.1 g/cm³
 - **Flash Point:** Not applicable
 - **Explosive Properties:** Not explosive
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10. Stability and Reactivity

Stability: Stable under normal conditions.

Conditions to Avoid: Moisture, heat, and incompatible materials.

Incompatible Materials: Strong oxidizing agents, strong acids.

Decomposition Products: Sulfur oxides, carbon oxides, sodium oxide.

11. Toxicological Information

Acute Toxicity (Oral): LD₅₀ (rat) = 1288 mg/kg

Skin Irritation: Causes irritation on prolonged exposure.

Eye Irritation: Causes serious eye irritation.

Chronic Effects: No known significant long-term effects.

12. Ecological Information

Ecotoxicity: Toxic to aquatic organisms at high concentrations.

Biodegradability: Readily biodegradable.

Bioaccumulation: Low potential for bioaccumulation.

Mobility: Water-soluble and mobile in soil and water.

13. Disposal Considerations

Waste Disposal Method: Dispose of in accordance with local regulations. Do not discharge into drains or natural water sources.

Packaging Disposal: Dispose of empty containers safely.

14. Transport Information (Detailed)

UN Number: 2924

UN Proper Shipping Name: Sodium Lauryl Sulphate

Transport Hazard Class: 9 (Miscellaneous Dangerous Substances and Articles)

Packing Group: III

Label:

- **Hazard Label:** Miscellaneous (Class 9)
- **Marking:** “Environmentally Hazardous Substance, Solid, N.O.S. (Sodium Lauryl Sulphate)”

Marine Pollutant: Yes (harmful to aquatic life)

Transport by Road (ADR/RID):

- UN No.: 2924
- Hazard Class: 9
- Packing Group: III
- Proper Shipping Name: Environmentally hazardous substance, solid, n.o.s. (Sodium Lauryl Sulphate)

Transport by Sea (IMDG):

- UN No.: 2924
- Hazard Class: 9
- Packing Group: III
- Marine Pollutant: Yes
- EMS Code: F-A, S-F

Transport by Air (IATA):

- UN No.: 2924
- Hazard Class: 9
- Packing Group: III
- Proper Shipping Name: Environmentally hazardous substance, solid, n.o.s. (Sodium Lauryl Sulphate)

Precautions During Transport:

- Keep away from moisture and incompatible materials.
- Avoid release to the environment.
- Containers must be tightly sealed and labeled properly.

15. Regulatory Information

Regulation: Classified according to the Globally Harmonized System (GHS).

Label Elements:

- Signal Word: *Warning*
- Hazard Statements: H315, H319, H302
- Precautionary Statements: P280, P305+P351+P338

16. Other Information

Disclaimer:

The information provided in this MSDS is believed to be accurate and reliable to the best of our knowledge. However, it is offered without any warranty or guarantee. The user is responsible for ensuring suitability and compliance with local regulations.

- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.