

Section 1. Product and Company Identification

Product Name Sodium Lauryl Sulfate
CAS Number 151-21-3

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EMERGENCY RESPONSE NUMBER
CHEMTEL
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Collect Calls Accepted

Section 2. Hazards Identification

Classification of the substance or mixture

GHS Classification

Flammable solids (Category 1)
Acute toxicity, Oral (Category 4)
Acute toxicity, Dermal (Category 3)
Skin irritation (Category 2)
Eye irritation (Category 2A)
Specific target organ toxicity - single exposure (Category 3)
Acute aquatic toxicity (Category 2)

GHS Label Elements

Pictograms:



Signal word: Danger

Hazard and precautionary statements

Hazard statement(s)

H228 Flammable solid.
H302 Harmful if swallowed.
H311 Toxic in contact with skin.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H401 Toxic to aquatic life.



Precautionary statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P280 Wear protective gloves/ protective clothing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 Call a POISON CENTER or doctor/ physician if you feel unwell.

Composition/Information on Ingredients:

Sodium Dodecyl Sulfate :151-21-3 : 95% wt.
Disodium Sulfate : 7757-82-6 : 5% wt.

Delivery state: Powder

State: solid

Odor: odorless

Color(s): White

Routes of entry: Skin contact

Potential Health Acute Effects:

Inhalation: May cause respiratory irritation.

Skin contact: Causes skin irritation.

Eye contact: Causes serious eye irritation.

Ingestion: May be harmful if swallowed in large quantities.

Potential Chronic Health Effects: None known

Section 3. Composition / Information on Ingredients

| | |
|--------------------|--|
| Common Name | Sodium Lauryl Sulfate |
| Synonym(s) | Sodium Dodecyl Sulfate; Alkyl Sulfate; SLS |
| CAS Number | 151-21-3 |

Section 4. First Aid Measures

After inhalation: Move to fresh air, consult doctor if complaints persist.

After skin contact: Rinse with plenty of water. Get medical attention.

After eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Do not rub eyes; mechanical action may cause corneal damage. Seek medical attention immediately.

After ingestion: Call a physician or poison control center immediately.

Section 5. Firefighting Measures

Flash point: > 200.12 °F (> 93.4 °C). No further information.

Autoignition temperature: 590.9 °F (310.5 °C) VDI 2263; Dust explosion class of combustible dust.

Suitable extinguishing media: Water Spray. Foam. Carbon dioxide. Dry Chemical.

Unusual fire or explosion hazards: Flammable solid. Avoid creating explosive concentrations of dust.

Hazardous combustion products: Sulfur oxides.

Additional firefighting advice: In case of fire, keep containers cool with water spray. If a spill or leak has not ignited, use water spray to disperse the vapors. Water spray may be used to flush spills away from fire.

Section 6. Accidental Release Measures

General information: Avoid open flames and sources of ignition.

Methods for cleaning and take-up: Using recommended protective and explosion-proof equipment, pick up and containerize for recovery or disposal. Flush area with water to remove residues.

Section 7. Handling and Storage

Handling advice: Ensure adequate ventilation. Container may be hazardous when emptied.

Storage conditions to keep: Store in sealed original container.

Section 8. Exposure Controls / Personal Protection

Indication for system design: Local exhaust ventilation recommended.

Personal protection measures:

Respiratory protection: Nuisance dust mask if use causes dusting.

Hand protection: Protective gloves made of rubber.

Eye protection: Safety glasses with side shields.

Section 9. Physical and Chemical Properties

General description:

Delivery state: Powder

State: solid

Odor: odorless

Color(s): white

pH-value (20 °C (68°F); Conc.: 10 g/l; Solvent: Water)20 °C: 8.5 - 10.5

Boiling point: 216 °C (420.8 °F)

Melting point: 205 °C (401°F)

Decomposition point: 216 °C (420.8 °F)

Vapor pressure (20 °C (68°F)): 0.0018 mbar
Density: 0.2 - 0.3 g/cm³
Bulk density: 200 - 300 g/l
Solubility in Water: Complete, Soluble in all proportions.
Analysis of Volatile matter: 0 %

Section 10. Stability and Reactivity

Stability:

Hazardous decomposition products: Sulfur Compounds

Decomposition advices: No decomposition if used according to specifications.

Reactivity:

Materials to avoid: Oxidizers. Bases. Strong Acids.

Hazardous polymerization: Will not occur

Section 11. Toxicological Information

General toxicological information: Irritating to respiratory system

Acute oral toxicity: LD50 > 300 - <= 2000 mg/kg body weight. Method: OECD 401

Acute inhalative toxicity: Harmful by inhalation. (Expert assessment)

Acute dermal toxicity: LD50 > 2000 mg/kg body weight (Expert assessment)

Skin irritation: irritating. Method: OECD 404

Eye irritation: severely irritating. Method: OECD 405

Sensitizing: not sensitizing (analogy).

In vitro mutagenicity: not mutagenic. OECD 471

Section 12. Ecological Information

Acute fish toxicity: LC50 > 10 - <= 100 mg product/l. Method: Acute fish toxicity according to test method OECD 203.

Acute invertebrate toxicity: EC50 > 1 - <= 10 mg product/l. (Experiment)

Acute bacterial toxicity: EC0 > 100 mg product/l. Method: Acute bacterial toxicity according to test method OECD 209.

Chronic fish toxicity: NOEC > 1 - <= 10 mg product/l. (Experiment)

Chronic invertebrate toxicity: NOEC <= 1 mg product/l. (Experiment)

Chronic bacterial toxicity: EC0 > 100 mg product/l. Method: Chronic bacterial toxicity according to test method DIN 38 412 p. 8.

Aquatic plant/algae toxicity: EC50 > 100 mg product/l. (Experiment)

Ultimate biodegradation: Readily and rapidly degradable. All organic substances contained in the product achieve > 60% BOD/COD or CO₂ liberation, or > 70% DOC reduction in tests for ease of degradability. Threshold values for 'readily degradable' (e.g. to OECD method 301) are reached.



Section 13. Disposal Considerations

Waste Treatment Methods: Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

U.S. Department of Transportation Ground (49 CFR):

Proper shipping name: Flammable solids, organic, n.o.s. (Sodium lauryl sulfate)

Hazard class or division: 4.1

Danger Labels: 4.1

Identification number: UN 1325

Packing group: III

Marine pollutant: None

ERG/EMS: 133

RQ: None

International Air Transportation (ICAO/IATA):

Proper shipping name: Flammable solid, organic, n.o.s. (Sodium lauryl sulfate)

Hazard class or division: 4.1

Danger Labels: 4.1

Identification number: UN 1325

Packing group: III

RQ: None

Water Transportation (IMO/IMDG):

Proper shipping name: FLAMMABLE SOLID, ORGANIC, N.O.S. (Sodium lauryl sulfate)

Hazard class or division: 4.1

Danger Labels: 4.1

Identification number: UN 1325

Packing group: III

Marine pollutant: None

ERG/EMS: F-A;S-G

Additional information: IMDG Code Segregation group not applicable

RQ: None

Section 15. Regulatory Information

TSCA Inventory Status: This product and/or all of its components are either included on or exempt from the TSCA Inventory of Chemical Substances.

SARA 311/312 Hazard Categories: Immediate Health, Fire

TSCA 12(b) Components: none

SARA 313 Toxic Chemicals: none

SARA 302 Extremely Hazardous Substances: none



CERCLA Hazardous Chemicals: none

California Proposition 65: No California Proposition 65 listed chemicals are known to be present.

NFPA Rating (US) Value:

Health: 2

Fire: 3

Reactivity: 0

Special Hazard:

HMIS Rating (US) Value:

Health: 2

Flammability: 3

Reactivity: 0

Section 16. Other Information

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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