



Specialized in chemicals

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Material Safety Data Sheet

Sodium Lauryl Sulfate

Section 1: Chemical Product and Company Identification

1.1 Product identifiers

Trade name: Sodium Lauryl Sulfate

Molecular formula: $C_nH_{2n+1}O_4SNa$, n=12, 14

CAS Nr: 151-21-3

Molecular weight: 294.3

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : For laboratory tests and assays only, as described in the European Pharmacopoeia.

1.3 Details of the supplier of the safety data sheet

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Section 2: Hazards identification

CHEMWATCH HAZARD RATINGS:



GHS Classification:

Acute Aquatic Hazard Category 2

Acute Toxicity Category 4

Flammable Solid Category 1

Germ Cell Mutagen Category 2

Respiratory Sensitizer Category 1

Serious Eye Damage Category 1

Skin Corrosion/Irritation Category 2

Skin Sensitizer Category 1

STOT- SE Category 3



EMERGENCY OVERVIEW

HAZARD:

DANGER

Determined by Chemwatch using GHS criteria

- H228 Flammable solid.
- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H332 Harmful if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.
- H341 Suspected of causing genetic defects.
- H401 Toxic to aquatic life.

PRECAUTIONARY STATEMENTS:

Prevention

- | Code | Phrase |
|------|--|
| P201 | Obtain special instructions before use. |
| P202 | Do not handle until all safety precautions have been read and understood |
| P210 | Keep away from heat/sparks/open flames/hot surfaces.-No smoking. |
| P240 | Ground/bond container and receiving equipment. |
| P241 | Use explosion-proof electrical/ventilating/lighting/.../equipment |
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| P264 | Wash...thoroughly after handling. |
| P270 | Do not eat, drink or smoke when using this product. |

P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective to the environment.
P285	In case of inadequate ventilation wear respiratory protection.
Response	
Code	Phrase
P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P304+P341	IF INHALED: if breathing is difficult, remove victim to fresh air and keep at rest in a position 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.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P310	Immediately call a POISON CENTER or doctor/physician.
P312	Call a POISON CENTER or doctor/physician if you feel unwell
P330	Rinse mouth.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
P362	Take off contaminated clothing and wash before reuse.
P363	Wash contaminated clothing before reuse.
Storage	
Code	Phrase
P403+P233	Store in a well-ventillated p;ace. Keep container tightly closed.
P405	Store locked up.
Disposal	
Code	Phrase
P501	Dispose of contents/container to...

Section 3: Composition/information on ingredients

3.2 Composition:

Name	Content (% by Weight)	CAS No.
Sodium Lauryl Sulfate	95 min.	151-21-3

Section 4: First Aid Measures

Skin Contact:

Take off the clothes; wash thoroughly with soap and water.

Eye Contact:

Raise the eyelids; wash thoroughly with flowing clean water or physiological saline. Get medical attention.

Inhalation:

Move to fresh air. Give oxygen if breathing is difficult. Get medical attention immediately.

Ingestion:

Drinking plenty of warm water, deduce vomiting. If large quantities of this material are swallowed, get medical attention immediately.

Section 5: Firefighting measures

Dangerous data:

Flammable at sight of fire or under high temperature.

Harmful products after firing:

Carbon oxides (CO、CO₂), sulfur oxides, and sodium oxide.

Fire Fighting Methods:

Firemen should wear anti-poison face-mask and protective clothes, the air flow should direct upward.

Fire Fighting Agent:

Water spray, foam, carbon dioxide or sand soil.

Section 6: Accidental Release Measures

Separate the leakage contaminated area, limit in and out. Cut off the fire source. It's suggested that the workman should wear anti-dusk face masks which can cover the whole face, and wear anti-poison clothes. Collect the products into bags avoiding dust rising and move to safe place. If large spill, cover the products with plastic cloth or canvas. Collect and reclaim or send to the waste disposal site.

Section 7: Handling and Storage

Handling Precautions:

Keep the containers closed but workroom ventilation. Workmen should be specially trained, and handle according to regulation. Workmen are suggested wearing self-contained breathing apparatus, splash goggles, wear anti-poison work suits and rubber hand suits. Keep away from fire and heat. No smoke. Adopt ant-explosive ventilation appliances. Avoid dusts. Keep away from incompatible materials such as oxidizing agents. Handle carefully during upload or download to avoid the container damage. Equip with suitable types and quantities of fire fighting and spill handling appliances. Hazardous matter may remain in empty containers.

Storage Precautions:

Keep container in a cool, well-ventilated place, tightly closed. Keep away from fire and heat. Store in well-ventilation room, in case of insufficient ventilation, wear suitable respiratory equipment. No contact with strong oxidizing agents or acid. Prepare

appropriate containers to accommodate the spilled materials.

Section 8: Exposure Controls/Personal Protection

Maximum Concentration: Not available.

Monitoring Method: Not available.

Engineering Controls:

Keep the containers closed but workroom ventilation.

Breathe System Protection:

Wear dust respirator when the dust density in the air exceeds the exposure limitation. Wear air respirator during emergency rescuing and withdrawing.

Eyes Protection: Wear splash goggles.

Body Protection: Wear anti-poison work suits.

Hand Protection: Wear rubber hand suits.

Other Protection: Change and wash work clothes regularly.

Section 9: Physical and Chemical Properties

Main Component: Sodium Lauryl Sulfate.

Physical Appearance and State: White powder form or white needle form.

pH Value (1% solution): 7.5-9.5

Melting Point (°C): 204-207

Boiling Point (°C): Not Available.

Relative Density (Water=1): 0.65

Relative Density (air=1): Not available.

Logarithm value of capryl alcohol / water distribution coefficient: Not available.

Flashing Point (°C): Not available.

Ignition Temperature (°C): Not available.

Max. Limitation of Explosion %(V/V): Not available.

Min. Limitation of Explosion %(V/V): Not available.

Solubility:

Soluble in water, slightly soluble in alcohol, insoluble in chloroform.

Main application:

Used as the raw material of detergent, leveling agent in dye industry, floatation choosing agent of mining material.

Section 10: Stability and Reactivity Data

Stability: The product is stable under normal state.

Incompatibility Substances: Reacting with strong oxidizing agents and acid.

Avoid Contact: High temperature, humidity, acid.

Polymerization Hazard: Will not occur.

Ultimate Decomposition: CO, CO₂ and SO_x.

Section 11: Toxicological Information

Acute Toxicity:

LD50: 2000 mg/kg (Small Rat.); 1288 mg/kg (Big Rat.).

LC50: Not Available.

Irritation: Medium.

Section 12: Ecological Information

Ecological toxicology or toxicity: Not available.

Biodegradability: Not available.

Non-biodegradability: Not available.

Section 13: Disposal Considerations

Rejectamenta Feature: Not hazardous.

Disposal of Rejectamenta:

Rejectamenta must be disposed according to the state and local environment control registrations. Firing method is recommended. The sulfur oxides vented by the firing oven should be get ride of by syringe.

Section 14: Transport Information

Hazardous No.: 4.1+ 6.1

UN No.: UN 2926

Packing Sigh:



Packing Class: CLASS II

Packing Method:

Pack with 20kg net weight woven bags or craft paper bags with plastic liner.

Caution on transportation:

Packaging closed thoroughly before transportation; stack firmly to assure no leakage and no fall down during the transportation. Do NOT transport together with oxidizing agents or edible chemicals. Avoid strong insolation, rain or high temperature. The transporter should be thoroughly cleaned after transportation.

Section 15: Regulatory Information

Dangerous Chemical Goods Safety Management Statute (issued by state government on Feb 17, 2007), Hazardous Chemical Goods Safety Management Statute Details (chemical labor issued [1992] No. 677), Regulations on Safety Usage of Chemicals at Work Sight ([1996] labor issued No. 423), has set the regulation on the usage, production, transportation, uploading and downloading of the hazardous chemicals.

Section 16: Other Information

Referenced Documentation:

《Composition Regulation on the Chemical Material Safety Data Sheet》

GB 16483-2000

《Classification and Signs of General Hazardous Chemicals》 GB13690-92

《Classification and Name Number of the Hazardous Goods》 GB6944-86

《Principle on Packing Classes of Hazardous Goods During Transportation》 GB/T15098-94

《Packing Signs of Hazardous Goods》 GB 190-90

《Suggestion on the Hazardous Goods During Transportation》

《Regulation of the Real Way Hazardous Goods During Transportation》

《Catalogue of the Hazardous Rejectamenta of China》

Date of Compose: April 8, 2006.

Compose Department: Technology Dept.

Data Auditing Unit: The surfactant R&D unit of Science and Technology committee of industry project of Chinese Academy of Engineer.

Amend Record: One time.

Further information

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.