

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

#### 1.1. Product Identifier

**Product Name:** Sodium Lauryl Sulfate

**CAS No:** 151-21-3

**Synonyms:** SLS

#### 1.2. Intended Use of the Product

**Use of the substance/mixture:** Personal Care; surfactant

#### 1.3. Name, Address, and Telephone of the Responsible Party

**Henan Aslan Chemical Co., Ltd**

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### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the Substance or Mixture

##### Classification (GHS-US)

Acute Tox. 4 (Oral)	H302
Acute Tox. 4 (Inhalation:dust,mist)	H332
Skin Irrit. 2	H315
Eye Dam. 1	H318
STOT SE 3	H335
Aquatic Acute 2	H401
Aquatic Chronic 3	H412

Full text of H-phrases: see section 16

#### 2.2. Label Elements

##### GHS-US Labeling

##### Hazard Pictograms (GHS-US)



##### Signal Word (GHS-US)

##### Hazard Statements (GHS-US)

: Danger  
: H302+H332 - Harmful if swallowed or if inhaled  
H315 - Causes skin irritation  
H318 - Causes serious eye damage  
H335 - May cause respiratory irritation  
H401 - Toxic to aquatic life  
H412 - Harmful to aquatic life with long lasting effects

##### Precautionary Statements (GHS-US)

: P261 - Avoid breathing vapors, mist, or spray.  
P264 - Wash exposed areas thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P271 - Use only outdoors or in a well-ventilated area.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves, protective clothing, and eye protection.  
P301+P312 - If swallowed: Call a poison center or doctor if you feel unwell.

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P302+P352 - If on skin: Wash with plenty of water.  
P304+P340 - If inhaled: Remove person 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.  
P310 - Immediately call a poison center or doctor.  
P321 - Specific treatment (see Section 4 on this SDS).  
P330 - Rinse mouth.  
P332+P313 - If skin irritation occurs: Get medical advice/attention.  
P362 - Take off contaminated clothing and wash it before reuse.  
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.  
P405 - Store locked up.  
P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

### 2.3. Other Hazards

**Other Hazards Not Contributing to the Classification:** Hazardous to the aquatic environment - Chronic Hazard Category 3.

### 2.4. Unknown Acute Toxicity (GHS-US)

No data available

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substance

Not applicable

### 3.2. Mixture

Name	Product Identifier	%	Classification (GHS-US)
Sodium lauryl sulfate	(CAS No) 151-21-3	> 92	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 2, H401 Aquatic Chronic 3, H412
Sodium sulfate	(CAS No) 7757-82-6	<= 5.5	Not classified
Alcohols, C10-16	(CAS No) 67762-41-8	<= 1	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H-phrases: see section 16

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of First Aid Measures

**First-aid Measures General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**First-aid Measures After Inhalation:** When symptoms occur: go into open air and ventilate suspected area.

**First-aid Measures After Skin Contact:** Remove contaminated clothing. Drench affected area with water for at least 15 minutes.

**First-aid Measures After Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**First-aid Measures After Ingestion:** Rinse mouth. Do NOT induce vomiting.

### 4.2. Most Important Symptoms and Effects, Both Acute and Delayed

**Symptoms/Injuries:** Causes skin irritation. Causes serious eye damage. Harmful if swallowed. Harmful if inhaled. Irritation of respiratory tract.

**Symptoms/Injuries After Inhalation:** Harmful if inhaled. Sneezing, coughing, burning sensation of throat with constricting sensation of the larynx and difficulty in breathing.

**Symptoms/Injuries After Skin Contact:** Redness, pain, swelling, itching, burning, dryness, and dermatitis.

**Symptoms/Injuries After Eye Contact:** Redness. Pain. Blurred vision. Severe burns. Causes serious eye damage.

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**Symptoms/Injuries After Ingestion:** May cause nausea, vomiting, and diarrhea. Ingestion is likely to be harmful or have adverse effects.

**Chronic Symptoms:** None known.

### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If medical advice is needed, have product container or label at hand.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing Media

**Suitable Extinguishing Media:** Water spray or fog, dry chemical powder, alcohol-resistant foam, carbon dioxide (CO<sub>2</sub>). Use extinguishing media appropriate for surrounding fire.

**Unsuitable Extinguishing Media:** Do not use water jet.

### 5.2. Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Flammable solid.

**Explosion Hazard:** Dust clouds can be explosive.

**Reactivity:** Stable at ambient temperature and under normal conditions of use.

### 5.3. Advice for Firefighters

**Firefighting Instructions:** Exercise caution when fighting any chemical fire.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Handle in accordance with good industrial hygiene and safety practice. Avoid generating dust.

#### 6.1.1. For Non-emergency Personnel

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

#### 6.1.2. For Emergency Responders

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Ventilate area.

### 6.2. Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

### 6.3. Methods and Material for Containment and Cleaning Up

**For Containment:** Avoid generation of dust during clean-up of spills. Use a soft bristle brush or conductive rubber or conductive plastic shovel. Use caution, material is sensitive to initiation from sources such as heat, flame, shock, friction, or sparks. Use only non-sparking tools.

**Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely.

### 6.4. Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for Safe Handling

**Additional Hazards When Processed:** May form combustible dust concentrations in air. Use care during processing to minimize generation of dust.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

**Storage Conditions:** Store in a dry, cool and well-ventilated place. Keep container closed when not in use.

**Incompatible Products:** Strong acids. Strong bases. Strong oxidizers.

### 7.3. Specific End Use(s)

Personal Care; surfactant

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), or OSHA (PEL).

### 8.2. Exposure Controls

**Appropriate Engineering Controls** : Avoid dust production. Ground/bond container and receiving equipment.

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### Personal Protective Equipment

: Gloves. Protective goggles. Dust formation: dust mask.



### Hand Protection

: Rubber gloves.

### Eye Protection

: Chemical goggles or safety glasses.

### Respiratory Protection

: When manufacturing or handling product in large quantities and dusts or particulates may be generated, maintain airborne concentrations below recommended limits. Workplace risk assessments should be completed before specifying and implementing respirator usage. NIOSH/MSHA approved respirators for protection should be used if respirators are found to be necessary.

### Other Information

: When using, do not eat, drink or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on Basic Physical and Chemical Properties

Physical State	: Solid
Appearance	: White to pale yellow needles or powders
Odor	: Characteristic
Odor Threshold	: No data available
pH	: 7.5 - 10.5
Relative Evaporation Rate (butylacetate=1)	: No data available
Melting Point	: No data available
Freezing Point	: No data available
Boiling Point	: 187 °C @ 1010 hPa (368.6 °F)
Flash Point	: 206.5 °C @ 1013 mbar (DIN EN ISO 3679) (403.7 °F)
Auto-ignition Temperature	: > 302 °C (575.6 °F)
Decomposition Temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor Pressure	: No data available
Relative Vapor Density at 20 °C	: No data available
Relative Density	: No data available
Specific Gravity	: 400-600 g/l @ 20°C
Solubility	: Water: > 400 g/l @ 20°C. Soluble
Partition Coefficient: N-Octanol/Water	: @ 20°C (OECD Guideline 107)
Log Kow	: <= -2.24 @ 20°C (OECD Guideline 107)
Viscosity	: Not available
Explosive Properties	: No data available
Oxidizing Properties	: No data available
Explosive Limits	: Not applicable

### 9.2. Other Information No additional information available

## SECTION 10: STABILITY AND REACTIVITY

**10.1 Reactivity:** Stable at ambient temperature and under normal conditions of use.

**10.2 Chemical Stability:** Dust clouds can be explosive.

**10.3 Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.

**10.4 Conditions to Avoid:** Sparks, heat, open flame and other sources of ignition. Moisture. Direct sunlight. Avoid creating or spreading dust.

**10.5 Incompatible Materials:** None known.

**10.6 Hazardous Decomposition Products:** Carbon oxides (CO, CO<sub>2</sub>). Sulfur compounds.

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### SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1. Information On Toxicological Effects

Acute Toxicity : Oral: Harmful if swallowed. Inhalation: dust, mist: Harmful if inhaled.

Sodium Lauryl Sulfate (151-21-3)	
ATE (Oral)	1431.111 mg/kg body weight
ATE (Dust/Mist)	1.667 mg/l/4h
Sodium sulfate (7757-82-6)	
LD50 Oral Rat	> 10000 mg/kg
Alcohols, C10-16 (67762-41-8)	
LD50 Oral Rat	> 10000 mg/kg
LD50 Dermal Rabbit	> 11300 mg/kg
Sodium lauryl sulfate (151-21-3)	
LD50 Oral Rat	1288 mg/kg
LD50 Dermal Rat	> 2000 mg/kg
LD50 Dermal Rabbit	580 mg/kg
LC50 Inhalation Rat (mg/l)	> 3900 mg/m <sup>3</sup> (Exposure time: 1 h)
ATE (Dust/Mist)	1.500 mg/l/4h

Skin Corrosion/Irritation: Causes skin irritation.

pH: 7.5 - 10.5

Serious Eye Damage/Irritation: Causes serious eye damage.

pH: 7.5 - 10.5

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): May cause respiratory irritation.

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: Harmful if inhaled. Sneezing, coughing, burning sensation of throat with constricting sensation of the larynx and difficulty in breathing.

Symptoms/Injuries After Skin Contact: Redness, pain, swelling, itching, burning, dryness, and dermatitis.

Symptoms/Injuries After Eye Contact: Redness. Pain. Blurred vision. Severe burns. Causes serious eye damage.

Symptoms/Injuries After Ingestion: May cause nausea, vomiting, and diarrhea. Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms None known.

### SECTION 12: ECOLOGICAL INFORMATION

#### 12.1. Toxicity

Ecology - General : Harmful to aquatic life with long lasting effects.

Sodium Lauryl Sulfate (151-21-3)	
Sodium sulfate (7757-82-6)	
LC50 Fish 1	13500 (13500 - 14500) mg/l (Exposure time: 96 h - Species: Pimephales promelas)
EC50 Daphnia 1	2564 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC 50 Fish 2	> 6800 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
Sodium lauryl sulfate (151-21-3)	
LC50 Fish 1	8 (8 - 12.5) mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Daphnia 1	1.8 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC 50 Fish 2	15 (15 - 18.9) mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])

#### 12.2. Persistence and Degradability

Sodium Lauryl Sulfate (151-21-3)	
Persistence and Degradability	Not established. May cause long-term adverse effects in the environment.

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### 12.3. Bioaccumulative Potential

<b>Sodium Lauryl Sulfate (151-21-3)</b>	
Log Kow	<= -2.24 @ 20°C (OECD Guideline 107)
<b>Sodium lauryl sulfate (151-21-3)</b>	
BCF fish 1	(will not bioconcentrate)
Log Pow	1.6

### 12.4. Mobility in Soil

<b>Sodium Lauryl Sulfate (151-21-3)</b>	
Mobility In Soil	Low potential for absorption.

### 12.5. Other Adverse Effects

Other Information : Avoid release to the environment.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

**Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, national, and international regulations.

**Ecology – Waste Materials:** This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

## SECTION 14: TRANSPORT INFORMATION

In Accordance With ICAO/IATA/IMDG/DOT

**14.1. UN Number** Not regulated for transport

**14.2. UN Proper Shipping Name** Not regulated for transport

### 14.3. Additional Information

Other information : No supplementary information available.

**Transport by Sea** Not regulated for transport

**Air Transport** Not regulated for transport

## SECTION 15: REGULATORY INFORMATION

### 15.1 US Federal Regulations

<b>Sodium Lauryl Sulfate (151-21-3)</b>	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
<b>Sodium sulfate (7757-82-6)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Alcohols, C10-16 (67762-41-8)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Sodium lauryl sulfate (151-21-3)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

### 15.2 US State Regulations

<b>Sodium sulfate (7757-82-6)</b>
U.S. - Massachusetts - Right To Know List
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
U.S. - Pennsylvania - RTK (Right to Know) List

## SECTION 16: OTHER INFORMATION

*The data herein are based on our current knowledge and believed to be reliable. Henan Aslan Chemical Co provides this information without any representation or warranty, expressed or implied, regarding its accuracy or correctness.*

*Users must make their own determination that handling, storage, use and disposal of the product in the anticipated manner is safe and appropriate. Because these actions of the user are out of our control, and may be beyond our knowledge, we do not assume responsibility and expressly disclaim liability for loss, damage, expense or any other claim arising out of or in any way connected with the handling, storage, use or disposal of the product or container.*