



# SAFETY DATA SHEET

**PRODUCT NAME:** SODIUM LAURYL SULPHATE

Issue Date: May-23

## IDENTIFICATION

**Product Name:** Sodium Lauryl Sulphate  
**Other Names:** Dodecyl Hydrogen Sulfate; Dodecyl sodium sulphate.  
**Product Code:** ZSFSLAUR  
**Uses:** Anionic detergent and surfactant often used in personal care products.  
**Supplier:** HamChem Hamilton Chemicals Ltd, 75 Ruffell Road, Hamilton  
Phone: 07 9744971 Web: [www.hamchem.nz](http://www.hamchem.nz) Email: [info@hamchem.nz](mailto:info@hamchem.nz)

- In emergency dial 111, and then ask for Fire, Ambulance or Police as necessary.
- In case of poisoning phone National Poisons Centre – 0800 764 766

## HAZARD IDENTIFICATION



### GHS Classifications

Acute Toxicity (Dermal) – Category 3  
Acute Toxicity (Oral) – Category 4  
Eye Irritation – Category 2

**Signal Word:** DANGER

### Hazard Statements:

H311 – Toxic in contact with skin  
H302 – Harmful if swallowed  
H319 – Causes serious eye irritation

### Prevention:

P280 – Wear protective gloves/clothing and eye/face protection  
P264 – Wash hands thoroughly after handling  
P270 – Do not eat, drink or smoke when using this product.

### Response:

P302 + P352 – IF ON SKIN: Wash with plenty of water.  
P312 – Call a POISON CENTRE or Doctor if you feel unwell  
P361 + P364 – Take off immediately all contaminated clothing and wash it before reuse  
P301 + P312 – IF SWALLOWED: Call a POISON CENTRE or Doctor if you feel unwell  
P330 – Rinse mouth  
P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337 + P313 – If eye irritation persists: Get medical advice/attention.

### Storage

P405 – Store locked up

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HamChem Ltd, 75 Ruffell Road, Hamilton, New Zealand. Phone: 07-974-4971 Email: [info@hamchem.nz](mailto:info@hamchem.nz) Web: [www.hamchem.nz](http://www.hamchem.nz)

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**Disposal:**

P501 – Dispose of contents/container to an approved waste facility in accordance with local regulations

<b>COMPOSITION &amp; INFORMATION ON INGREDIENTS</b>
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<b>Chemical Entity</b>	<b>CAS No.</b>	<b>Proportion (%)</b>
Sodium Lauryl Sulphate	151-21-3	>95%

<b>FIRST AID MEASURES</b>
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**SWALLOWED:** Do NOT induce vomiting. Immediately wash out mouth with water. Do not give anything by mouth to an unconscious person. Seek IMMEDIATE medical attention

**EYE:** If contact with the eyes occur, wash with running water holding eyelids open. Take care not to rinse contaminated water into the non-affected eye. In all cases of eye contamination, it is a sensible precaution to seek medical advice. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

**SKIN:** If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.

**INHALED:** Remove the source of contamination or move the affected person to fresh air. Ensure airways are clear and give oxygen if breathing is difficult. Apply artificial respiration if not breathing. Seek IMMEDIATE medical attention.

**NOTES TO PHYSICIAN:** Treat symptomatically.

**SYMPTOMS AND EFFECTS, ACUTE AND DELAYED, FROM EXPOSURE**

**Ingestion:** Harmful if swallowed. Ingestion of this product will irritate the gastric tract causing nausea and vomiting.

**Eye contact:** Risk of serious damage to eyes. Eye contact will cause stinging, blurring, tearing, severe pain and possible permanent corneal damage.

**Skin contact:** Harmful in contact with skin. Irritating to skin resulting in redness and itching.

**Inhalation:** Inhalation of product vapours will cause irritation of the nose, throat and respiratory system.

**Long Term Effects:** No information available for the product.

<b>FIRE FIGHTING MEASURES</b>
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**EXTINGUISHING MEDIA:** Carbon dioxide, dry chemical powder, foam.

**FIRE FIGHTING:** Alert Fire Brigade and tell them location and nature of hazard. Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) operated in positive pressure mode and full protective clothing to prevent exposure to vapours or fumes. Water spray may be used to cool down heat-exposed containers.

**FIRE/EXPLOSION HAZARD:** Flammable solid. In common with many organic chemicals may form flammable dust clouds in air. Will burn if involved in a fire.

**FIRE INCOMPATIBILITY:** Under fire conditions this product may emit toxic and/or irritating fumes including carbon monoxide, carbon dioxide, oxides of sulfur and sodium oxide.

**Personal Protective Equipment:** Breathing apparatus. Gas tight chemical resistant suit.

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### **ACCIDENTAL RELEASE MEASURES**

**SPILLS:** Remove all sources of ignition. Increase ventilation. Evacuate all unprotected personnel. Wear sufficient respiratory protection and full protective clothing to minimise skin and eye exposure. Sweep up material avoiding dust generation or dampen spilled material with water to avoid airborne dust, and then transfer material to a suitable container. Use absorbent paper dampened with water to pick up remaining material. Wash surfaces well, with soap and water. Seal all wastes in vapour tight labelled plastic containers for eventual disposal. If this material enters the waterways contact the Environmental Protection Authority, or your local Waste Management Authority.

### **HANDLING & STORAGE**

**PROCEDURE FOR HANDLING:** Avoid generating dust. Use smallest possible amounts in designated areas with adequate ventilation. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Label containers. Keep containers closed when not in use. Wear appropriate protective equipment to prevent inhalation, skin and eye contact. Ensure a high level of personal hygiene is maintained when using this product. That is, always wash hands before eating, drinking, smoking or using the toilet.

**SUITABLE CONTAINER:** Packaging as recommended by manufacturer. Check all containers are clearly labelled and free from leaks.

**STORAGE INCOMPATIBILITY:** Avoid Strong oxidising agents.

**STORAGE REQUIREMENTS:** Store in a cool (< 40°C), dry, well-ventilated area, out of direct sun light away from heat, sources of ignition, and moisture. Store in labelled, corrosion-resistant containers. Avoid dust cloud in presence of sparks, flames, and other ignition sources. Avoid accumulation of static discharges. Keep containers tightly closed and away from other incompatible materials. Have appropriate fire extinguishers available in and near the storage area. Protect containers against physical damage and check regularly for leaks. Observe manufacturer's storing and handling recommendations.

### **EXPOSURE CONTROLS & PERSONAL PROTECTION**

**Occupational Exposure Limits:** No value assigned for this specific material by the New Zealand Occupational Safety and Health Service (OSH). However, Workplace Exposure Standard(s) for constituent(s): Triethanolamine: WES-TWA 5 mg/m<sup>3</sup>, A2 Suspected Human Carcinogen As published by the New Zealand Occupational Safety and Health Service (OSH).

**Engineering controls:** Use with good general ventilation. Where dust is generated the use of a local exhaust ventilation system (drawing dust away from workers breathing zone) is recommended. If engineering controls are not effective in controlling airborne exposure, then respiratory protective equipment should be used suitable for protecting against airborne contaminants. Final choice of appropriate breathing protection is dependent upon actual airborne concentrations and the type of breathing protection required will vary according to individual circumstances. Expert advice may be required to make this decision. 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.

**Personal protective equipment:** Safety glasses with side shields, goggles or full-face shield as appropriate recommended. Final choice of appropriate eye/face protection will vary according to individual circumstances i.e., methods of handling or engineering controls and according to risk assessments undertaken. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications. Wear gloves of impervious material. Final choice of appropriate gloves will vary according to individual circumstances i.e., methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance. Wear appropriate clothing including chemical resistant apron where clothing is likely to be contaminated. It is advisable that a local supplier of personal protective clothing is consulted regarding the choice of material.

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PHYSICAL & CHEMICAL PROPERTIES
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Physical state:	White powder, needles or granules
Colour:	White
Odour:	Odourless
Solubility in water:	1 – 10% Solution.
Specific Gravity:	Bulk density: 200-300 kg/m <sup>3</sup>
Relative Vapour Density (air=1):	Not available
Vapour Pressure (20 °C):	Not available
Flash Point (°C):	Not available
Flammability Limits (%):	Not available
Autoignition Temperature (°C):	Not available
Boiling Point/Range (°C):	Not available
pH:	7 – 10.5
Viscosity:	Not available
Evaporation Rate:	Not available
Freezing Point/Range (°C):	Not available

STABILITY & REACTIVITY
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**Chemical stability:** Stable under normal storage and handling conditions.

**Conditions to avoid:** Heat, direct sunlight, open flames or other sources of ignition.

**Incompatible materials:** Strong oxidising agents.

**Hazardous decomposition products:** Thermal decomposition may result in the release of toxic and/or irritating fumes including carbon monoxide, carbon dioxide, oxides of sulfur and sodium oxide.

**Hazardous reactions:** May react with strong oxidising agents. Hazardous polymerization will not occur.

TOXICOLOGICAL INFORMATION
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#### POTENTIAL ACUTE HEALTH EFFECTS

**Ingestion:** Harmful if swallowed. Ingestion of this product will irritate the gastric tract causing nausea and vomiting.

**Eye contact:** Risk of serious damage to eyes. Eye contact will cause stinging, blurring, tearing, severe pain and possible permanent corneal damage.

**Skin contact:** Harmful in contact with skin. Irritating to skin resulting in redness and itching.

**Inhalation:** Inhalation of product vapours will cause irritation of the nose, throat and respiratory system.

**CHRONIC HEALTH EFFECTS:** No information available for the product.

**Toxicity data:** LD50(Rat, Oral): 200-2000 mg/kg

ECOLOGICAL INFORMATION
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Readily and rapidly degradable. All organic substances contained in the product achieve > 60% BOD/COD or CO<sub>2</sub> liberation, or > 70% DOC reduction in tests for ease of degradability. The surfactants contained in the products are biodegradable to at least 90% on average.

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<b>DISPOSAL CONSIDERATIONS</b>
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Refer to Waste Management Authority. Dispose of material through a licensed waste contractor.

<b>TRANSPORT INFORMATION</b>
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Not classified as a Dangerous Good under NZS 5433 Transport of Dangerous Goods on Land.

<b>REGULATORY INFORMATION</b>
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**HSNO Classifications:** 6.1C (d), 6.1D (o), 6.4A

**EPA Approval Number:** HSR002508 – Additives, Process Chemicals & Raw Materials (Acutely Toxic)  
Group Standard 2020

**Restrictions:** Sodium Lauryl Sulphate is Restricted to Workplace only, due to the Acute Toxicity (Dermal) – Category 3 classification under the Hazardous Substances (Hazardous Property Controls) Notice 2017

<b>OTHER INFORMATION</b>
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**End of SDS.**