SAFETY DATA SHEET SODIUM LAURETH SULPHATE 25%

1. Chemical Product and Company Identification

Product name:	Sodium Laureth Sulphate 25%
Chemical name:	Sodium alkyl ether sulphate
Chemical formula:	$CH_3(CH_2)_{10}CH_2(OCH_2CH_2)_2OSO_3Na$
Recommended use:	Surfactant
Company:	NuVest Chemicals

2. Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Water	7732-18-5	72–74%
Sodium laureth sulphate (n ≥ 2)	68585-34-2	24–26%
C_{12}–C_{14} alcohol ethoxylates	68439-34-2	<2%
Sodium sulphate	7757-82-6	<1%

3: Hazards Identification

Classification as stated in the source:

Physical hazards: Not classified.

Health hazards: Skin irritation, Category 2. Serious eye damage, Category 1.

Environmental hazards: Aquatic acute hazard, Category 2. Aquatic long-term hazard, Category 3.

OSHA-defined hazards: Not classified.

Label elements:



Signal word: Danger

Hazard statement: Causes skin irritation. Causes serious eye damage. Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Precautionary statement:

Prevention: Wash thoroughly after handling. Avoid release to the environment. Wear protective gloves/eye protection/face protection.

Response: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor/physician. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. IF ON SKIN: Wash with plenty of soap and water

Storage: Store in a well-ventilated place. Keep cool.

Disposal: Dispose of contents/container in accordance with the local or national regulations

Hazard(s) not otherwise Classified (HNOC): Not known

Supplementary information: None

4. First Aid Measures

Inhalation: Remove patient to fresh air. If symptoms persist, get medical attention. If affected person is not breathing, apply artificial respiration. If breathing is difficult, give oxygen and get medical attention immediately.

Skin Contact: Flush with large amounts of water. If irritation develops or persists, immediately take off contaminated clothing. Wash contaminated clothing separately before reuse.

Eye Contact: Flush with plenty of water for 10–15 minutes. Get medical attention immediately.

Ingestion: Rinse mouth. If symptoms occur, contact a physician immediately. Do not induce vomiting without a physician's advice.

Most important acute and delayed symptoms: Symptoms may include stinging, redness, tearing, swelling and blurred vision. Skin irritation may cause redness and pain
Immediate medical attention and special treatment: Thermal burns: Flush with water immediately while removing clothing if safe to do so. Call an ambulance. Keep victim under observation
General information: Take off all contaminated clothing immediately. Ensure medical personnel are aware of the nature of material involved. Wash contaminated clothing before reuse

5. Fire and Explosion Data
Suitable Extinguishing Media: Water fog. Foam. Dry chemical powder. Use water to cool fire-exposed containers and to protect personnel.
Hazardous combustion products: Material is not flammable but if involved in a fire could give off toxic fumes such as sulphur dioxide. Use self-contained breathing apparatus. Use any suitable firefighting medium.
Protective equipment and precautions for firefighters: Wear self-contained breathing apparatus and full protective gear.

6. Accidental Release Measures
Personal precautions: Isolate area. Ventilate closed space before entering. Keep unnecessary personnel away. Stay upwind and keep out of low areas.
Environmental precautions: Prevent any further leakage or spillage if safe to do so.
Method for containment: Prevent entry into waterways, sewers, basements, or confined space.
Methods for cleaning up: Wear appropriate protective equipment and clothing during clean-up.
Small Spills: Use a non-combustible material like vermiculite, sand or earth to soak up product and place into a container for later disposal. Large Spills: Dike far ahead of liquid spill for later disposal.

7. Handling and Storage
Handling: Avoid skin and eye contact. Wash thoroughly after handling.
Storage: Avoid mild steel storage. Avoid extremes of temperature (above 45 °C). Keep container in a well-ventilated place.

8. Exposure Controls/Personal Protection
Exposure limits: Not stated in the source.
Engineering controls: Use general ventilation. Local exhaust is suggested for use where possible in enclosed or confined space.
<u>Personal protective equipment:</u>
General: Eye wash fountain and emergency showers are recommended.
Eye/face protection: Wear chemical goggles or face shield.
Skin protection: Wear suitable protective clothing. Wear impervious gloves.
Respiratory protection: Handle product in closed vessels. If ventilation is insufficient to effectively prevent build-up of aerosols or vapours, appropriate respiratory protection must be provided

9. Physical and Chemical Properties

Appearance:	Liquid
Physical state Form:	Not available
Colour:	Water white to pale yellow
Odour:	Slight mild fatty
Odour threshold:	Not available
pH:	6.5 – 7.5 (10% Aqueous solution)
Melting /freezing point:	5 °C
Initial boiling point and boiling range:	>100°C
Flash point:	> 94°C

Evaporation rate:	Not available
Flammability and explosive limits:	Not available
Flammability limit-lower:	Not available
Flammability limit-upper:	Not available
Explosive limit-lower (%):	Not available
Explosive limit-upper (%):	Not available
Vapour pressure:	Not available
Vapour density:	Estimated lighter than air
Relative density:	Not available
Solubility:	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	Not available
Other information:	
Density:	1.01 g/cm³
Percent volatile:	70

10. Stability and Reactivity Data

Reactivity: Stable under normal conditions of use, storage and transportation.
Chemical Stability: Material is stable under normal conditions
Possibility of hazardous reactions: No dangerous reaction is known under normal condition of use.
Conditions to avoid: Avoid heat, sparks and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials: Strong oxidants. Strong acids.
Hazardous decomposition products: Upon decomposition, the product may yield sulphur dioxide and oxides of sulphur.

11. Toxicological Information

Information on likely routes of exposure:
Inhalation: Prolonged inhalation may be harmful
Skin Contact: Causes skin irritation. May be harmful in contact with skin
Eye Contact: Causes serious eye damage.
Ingestion: May be harmful if swallowed.
Symptoms related to the physical, chemical and toxicological characteristics: Not available
Acute toxicity: May be harmful in contact with skin. May be harmful if swallowed.

Vestol ES25 acute toxicity	Species	Test result
Dermal LD_{50}	Rat	>5,000 mg/kg
Oral LD_{50}	Rat	>2,000 mg/kg

Skin corrosion/irritation: Causes skin irritation
Serious eye damage/eye irritation: Causes serious eye damage
Respiratory or skin sensitization
Respiratory sensitization: Not a respiratory sensitizer
Skin sensitization: Not expected to cause skin sensitization
Germ cell mutagenicity: No data available to indicate product or any of its components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity: Product not considered to be a carcinogenic
Reproductive toxicity: Product contain no ingredients listed as toxic to reproduction.
Specific target organ toxicity (single exposure): Not applicable
Specific target organ toxicity (repeated exposure): Not applicable
Aspiration hazard: Not applicable

12. Ecological Information
Ecotoxicity: Toxic to aquatic life. Harmful to aquatic life with long lasting effects
Persistence and degradability: Readily biodegradable
Bioaccumulation potential: No data available
Mobility in soil: No data available
Other adverse effects: No other environmental effects are expected from this product.

13. Disposal Considerations
Disposal Instructions: Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazardous waste code: the waste code should be assigned in discussion with the user, the producer and waste disposal company.
Waste from residues/unused products: Dispose in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (See Disposal Instructions)
Contaminated Packaging: Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport Information
DOT: Not regulated as dangerous goods
IATA: Not regulated as dangerous goods
IMDG: Not regulated as dangerous goods
Special precautions for transport: Packaging in accordance with SANS 10232/SANS 10232-1/SANS 10232-3

15. Other Regulatory Information
Technical review: The source lists H320 in this section and serious eye damage, Category 1, in Section 3. The source also describes aquatic hazards differently in Sections 3 and 15. Confirm the applicable classification and label elements before issue.
Labelling accordance with SANS 10234 latest revision.
Physical Hazards: None
Health Hazards: H303 May be harmful if swallowed
H315: Causes mild skin irritation
H320: Causes eye irritation
Environment Hazards: H403 Harmful to aquatic life
OHS Act, 1993(Act No. 85 of 1993). Hazardous Substance Regulation of 1995

16. Other Information
Source: NuVest Chemicals, Sodium Laureth Sulphate 25% MSDS, Version 1, July 2022.
ISO 9001:2015 Quality Management System

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