

Material Safety Data Sheet (MSDS / SDS)

Sodium Lauryl Ether Sulphate (SLES) - 28% Grade

SECTION 1: Identification

Product Name	Sodium Lauryl Ether Sulphate (SLES), 28% Aqueous Solution
Synonyms	SLES 28%, Sodium Laureth Sulfate 28%, SLES Liquid, Sodium Lauryl Ether Sulfate
CAS No.	68585-34-2 / 9004-82-4
Recommended Use	Anionic surfactant for liquid detergents, dishwashing liquids, shampoos and personal-care cleansing formulations
Manufacturer / Supplier	Ochnology Solution Pvt. Ltd., B-153, Sector-4 Defence Colony, Dehradun, Uttarakhand, India – 248001
Telephone	+91 9286823642/43
Email	projects@ochnology.com, bd@ochnology.com

SECTION 2: Hazard(s) Identification

GHS Classification: Skin Irritation Category 2 (H315); Eye Irritation Category 2 (H319); Aquatic Chronic Category 3 (H412)

Signal Word: Warning

Hazard Statements:

- H315 – Causes skin irritation
- H319 – Causes serious eye irritation
- H412 – Harmful to aquatic life with long lasting effects

Precautionary Statements:

- P264 – Wash hands thoroughly after handling
- P273 – Avoid release to the environment
- P280 – Wear protective gloves/eye protection
- P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes; remove contact lenses if present and easy to do; continue rinsing
- P332+P313 – If skin irritation occurs, get medical advice/attention

SECTION 3: Composition / Information on Ingredients

Component	CAS No.	Concentration (w/w)
Sodium Lauryl Ether Sulphate (SLES)	68585-34-2	27-29%
Water	7732-18-5	Balance
Sodium Chloride / Sodium Sulfate (processing residuals)	7647-14-5	< 1.5% (combined)

SECTION 4: First-Aid Measures

Eye Contact	Rinse immediately with plenty of water for at least 15 minutes, holding eyelids open. Remove contact lenses if present. Seek medical attention if irritation persists.
Skin Contact	Wash with plenty of water and mild soap. Remove contaminated clothing. Seek medical attention if irritation persists.
Inhalation	If mist/vapour is inhaled, move person to fresh air. Seek medical attention if discomfort or breathing difficulty occurs.
Ingestion	Rinse mouth with water. Do NOT induce vomiting. Give water to drink if conscious. Seek medical attention.

SECTION 5: Fire-Fighting Measures

- Non-flammable aqueous solution; not classified as a fire hazard under normal conditions
- Suitable extinguishing media: water spray, foam, CO₂, dry chemical – select based on surrounding fire
- May generate dense foam when heated or agitated – this can complicate fire-fighting access; use water spray to cool containers
- Fire-fighters should wear self-contained breathing apparatus (SCBA) and full protective equipment

SECTION 6: Accidental Release Measures

- Contain spill and prevent entry into drains, sewers or natural waterways (aquatic hazard – H412)
- Small spills: absorb with inert absorbent material (sand, vermiculite, earth) and collect in suitable containers for disposal
- Large spills: dike to contain, pump into recovery containers; area may become slippery due to foaming – flush residue with water only after containment
- Wear appropriate PPE (gloves, goggles) during clean-up; avoid generating splashes/mist

SECTION 7: Handling and Storage

- Avoid contact with eyes and prolonged contact with skin; avoid generating mist or excessive foam during handling/transfer
- Use with adequate ventilation; wash hands after handling
- Store in tightly closed original containers in a cool, dry, well-ventilated area away from direct sunlight
- Avoid prolonged storage below 5°C – product may become cloudy/gel; warm gently and mix before use if this occurs
- Keep away from strong oxidising agents and strong acids; segregate from incompatible materials

SECTION 8: Exposure Controls / Personal Protection

Occupational Exposure Limits	No specific OEL established for SLES; handle per good industrial hygiene practice
Engineering Controls	Ensure adequate general/local ventilation where mist or vapour may be generated
Eye/Face Protection	Chemical splash goggles recommended when handling concentrate
Hand Protection	Chemical-resistant gloves (nitrile or PVC) recommended for prolonged/repeated contact
Skin/Body Protection	Protective clothing/apron where splash risk exists

SECTION 9: Physical and Chemical Properties

Property	Unit	Value
Appearance	–	Clear to slightly hazy, colourless to pale straw liquid
Odour	–	Characteristic, mild
pH (1% aqueous solution)	–	6.5 – 9.0
Density @ 25°C	g/cm ³	1.03 – 1.05
Solubility in Water	–	Complete / fully miscible
Flash Point	–	Not applicable (aqueous solution, non-flammable)
Boiling Point	°C	≈ 100 (water-based solution)

SECTION 10: Stability and Reactivity

- Stable under normal conditions of storage, handling and use
- Hazardous polymerisation: does not occur
- Incompatible materials: strong oxidising agents, strong acids
- Hazardous decomposition products: none under normal conditions; combustion may produce oxides of sulfur, sodium and carbon

SECTION 11: Toxicological Information

- Low acute oral and dermal toxicity, consistent with published data for this class of anionic surfactant
- May cause irritation to eyes and skin on direct/prolonged contact with concentrate; use-dilutions are generally mild
- Not classified as carcinogenic, mutagenic, or toxic to reproduction based on available information

- 1,4-Dioxane (a trace processing by-product typical of ethoxylated surfactants) is controlled to low ppm levels per the product specification

SECTION 12: Ecological Information

- Readily biodegradable, consistent with published data for SLES-type anionic surfactants (e.g. OECD 301 series)
- Can be harmful to aquatic organisms at higher concentrations (H412 – harmful to aquatic life with long lasting effects)
- Avoid release of concentrate or wash-water to drains, surface water, or groundwater

SECTION 13: Disposal Considerations

- Dispose of product and contaminated packaging in accordance with local, state and national regulations
- Do not discharge undiluted product to drains, waterways or soil
- Empty containers may retain product residue – handle, rinse and dispose of per label and local regulations

SECTION 14: Transport Information

UN Number	Not applicable – not classified as Dangerous Goods
Proper Shipping Name	Not regulated for transport (IMDG / ADR / IATA / RID)
Transport Hazard Class	Not classified
Packing Group	Not applicable
Environmental Hazards	Avoid bulk release to aquatic environment during transport handling

SECTION 15: Regulatory Information

- Not listed as a hazardous substance under standard Indian regulatory schedules at typical commercial concentration
- Buyers/importers should confirm inventory listing and labelling requirements (e.g. REACH, TSCA, or destination-country equivalents) applicable to their specific jurisdiction and end-use
- Users should ensure workplace labelling and handling comply with locally applicable OSH/GHS regulations

SECTION 16: Other Information

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This SDS has been compiled based on general industry data and knowledge for Sodium Lauryl Ether Sulphate (SLES) products of this type as commercially supplied. It is intended as a general handling and safety guide and does not replace a batch-specific SDS from the manufacturing mill, which should be obtained and reviewed for each shipment where regulatory submission is required.

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