

Material Safety Data Sheet (MSDS / SDS)

Sodium Lauryl Ether Sulphate (SLES) - 70% Grade

SECTION 1: Identification

Product Name	Sodium Lauryl Ether Sulphate (SLES), 70% Concentrate
Synonyms	SLES 70%, Sodium Laureth Sulfate 70%, SLES Paste, Sodium Lauryl Ether Sulfate Concentrate
CAS No.	68585-34-2 / 9004-82-4
Recommended Use	Concentrated anionic surfactant feedstock for liquid detergents, shampoos, personal care and industrial cleaning formulations (diluted in-house by formulator)
Manufacturer / Supplier	Ochnology Solution Pvt. Ltd., B-153, Sector-4 Defence Colony, Dehradun, Uttarakhand, India - 248001
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SECTION 2: Hazard(s) Identification

GHS Classification: Skin Irritation Category 2 (H315); Eye Irritation Category 2A (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
- P362+P364 – Take off contaminated clothing and wash before reuse

SECTION 3: Composition / Information on Ingredients

Component	CAS No.	Concentration (w/w)
Sodium Lauryl Ether Sulphate (SLES)	68585-34-2	69-72%
Water	7732-18-5	Balance
Sodium Chloride / Sodium Sulfate (processing residuals)	7647-14-5	< 2.5% (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 promptly – concentrate is more irritating than dilute grades.
Skin Contact	Wash immediately 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 immediately.

SECTION 5: Fire-Fighting Measures

- Non-flammable aqueous concentrate; not classified as a fire hazard under normal conditions
- Suitable extinguishing media: water spray, foam, CO₂, dry chemical – select based on surrounding fire

- Higher viscosity/concentration than dilute grades – generates dense, persistent foam when heated or agitated, which 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; concentrate is viscous and will generate substantial foam with water – recover product directly by pumping before flushing residue
- Wear appropriate PPE (gloves, goggles, apron) during clean-up; avoid generating splashes/mist

SECTION 7: Handling and Storage

- Concentrate is more irritating than dilute grades – avoid all eye/skin contact; avoid generating mist or excessive foam during handling/transfer
- Use with adequate ventilation; wash hands and exposed skin after handling
- Store in tightly closed original containers in a cool, dry, well-ventilated area away from direct sunlight
- Avoid storage below 15°C – product will thicken/gel and require gentle warming (not direct flame) before use
- 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, particularly during dilution/mixing

Eye/Face Protection	Chemical splash goggles or face shield recommended when handling concentrate
Hand Protection	Chemical-resistant gloves (nitrile or PVC) required for handling concentrate
Skin/Body Protection	Protective clothing/apron recommended; concentrate is more irritating than in-use dilutions

SECTION 9: Physical and Chemical Properties

Property	Unit	Value
Appearance	–	White to pale yellow viscous paste/liquid
Odour	–	Characteristic, mild
pH (10% aqueous solution)	–	6.5 – 9.5
Density @ 25°C	g/cm ³	1.05 – 1.08
Solubility in Water	–	Complete / fully miscible (dilutes readily)
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
- May thicken/gel at temperatures below 15°C – this is a physical, reversible change, not decomposition
- 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
- Concentrate causes eye and skin irritation on direct contact; more concentrated than the 28% grade and should be handled accordingly
- 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; buyers requiring certified low-dioxane lots (e.g. <10 mg/kg) should confirm against the batch COA

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)
- As a concentrate, avoid any release to drains, surface water, or groundwater – dilute product carries proportionally lower but still relevant aquatic risk

SECTION 13: Disposal Considerations

- Dispose of product and contaminated packaging in accordance with local, state and national regulations
- Do not discharge undiluted concentrate to drains, waterways or soil
- Empty containers may retain significant product residue given high viscosity – 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; concentrate poses higher relative aquatic risk if released undiluted

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, noting the higher concentration relative to standard 28% dosing grade

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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