

MATERIAL SAFETY DATA SHEET

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1. PRODUCT NAME:

- SLES 70%
- Sodium Laureth Sulfate 70% aqueous solution
- Synonyms: Sodium Laury Ethyle Sulfate 70% aqueous solution; Sodium Alkyl Ethoxy Sulfate 70% aqueous solution; Sodium C10-16 Alkyl Ethoxy Sulphate (Predominantly C12-C14) 70% aqueous solution; SLES 70% aqueous solution
- Molecular formula: $\text{CH}_3-(\text{CH}_2)_n-(\text{O}-\text{CH}_2-\text{CH}_2)_p-\text{OSO}_3\text{Na}$, where $n=9\sim 15$, $p=2$
- Mean molecular weight: 388

2. COMPOSITION / INFORMATION ON INGREDIENTS:

CAS#	Chemical Name	%	EINECS#
68585-34-2	Sodium Laureth Sulfate	70% min.	
7732-18-5	Water	30% max.	231-791-2

Hazard Symbols: XN

Risk Phrases: 38 41



3. HAZARDOUS IDENTIFICATION:

- May cause some irritation to the mouth and upper digestive tract.
- May cause significant skin irritation especially if exposure is prolonged and/or repeated.
- Contact with eyes can cause severe irritation. If not washed out promptly, will injure the tissue, and permanent damage may result.

4. FIRST AID MEASURES:

- Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
- Skin: Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.
- Ingestion: Never give anything by mouth to an unconscious person. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water. Get medical aid if irritation or symptoms occur.
- Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.
- Notes to Physician: Treat symptomatically and supportively.

5. FIRE FIGHTING MEASURES:

- General Information: Fumes containing carbon dioxide, carbon monoxide and sulphur dioxide may be formed in large fire. As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Will burn if involved in a fire.
- Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or chemical foam, avoid using large quantities of water.

6. ACCIDENTAL RELEASE MEASURES:

- General Information: Use proper personal protective equipment as indicated in Section 8.
- Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section.

7. HANDLING AND STORAGE:

- Handling: Wash thoroughly after handling. Wash hands before eating. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

- Storage: Store in plastic, plastic lined or stainless steel, tight closed containers at between 5 ~ 40°C. Keep container closed when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances and sources of ignition.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION:

- Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low. Maintain concentration below recommended exposure limit. Local exhaust ventilation system may be required.
- Do not eat, drink or smoke in work areas. Wash hands thoroughly after handling this material.
- Personal Protective Equipment:
 - Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
 - Skin: Wear appropriate protective gloves to prevent skin exposure.
 - Clothing: Wear appropriate protective clothing and gloves to prevent skin exposure.
 - Respirators: A respiratory protection program that meets OSHA's 29 CFR :1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

9. PHYSICAL AND CHEMICAL PROPERTIES:

- Physical State : Liquid
- Appearance : Pale straw viscous
- Odor : Characteristic
- Set point (°C) : ca. 7
- PH : ca 7.5 (20°C) (100 g/l)
- Vapor Pressure : Not available
- Viscosity : ca. 25000 m Pa.s. (25°C) (Brookfield RVT Spindle 4.R.P.M 100)
- Boiling Point : Not available
- Freezing/Melting Point : 10-15°C
- Autoignition Temperature : Not available
- Flash Point : Not available
- Explosion Limits, lower : Not available
- Explosion Limits, upper : Not available
- Decomposition Temperature : Not available
- Solubility in water : ca 450 g/l (20°C)
- Solubility in lower alcohols : fully miscible (20°C)
- Relative Density : ca 1.1 (20°C)

10. STABILITY AND REACTIVITY:

- If the pH fails, an exothermic reaction may occur releasing sulphuric acid.
- May react with strong oxidants.
- Decomposition: May start to hydrolyse >50°C.

11. TOXICOLOGICAL INFORMATION:

- LD50 (oral rat) >2000mg/Kg
- Not classified as "Harmful if swallowed". May cause some irritation of the mouth and upper digestive tract.
- May produce significant skin irritation after prolonged contact.
- May cause severe, possibly permanent eye damage.

12. ECOLOGICAL EFFECTS:

- Ecotoxicity: The product is toxic to aquatic organisms.
- Ecological Overview: Not expected to cause significant environment impact.
- Mobility: The product will dissolve in water.
- Persistence/Degradability: This product is readily biodegradable with respect to EC criteria.
- Bio-accumulation: Product is surface active, Log Pow inappropriate.
- Do not release into surface waters.

13. DISPOSAL CONSIDERATIONS:

- When disposing of waste or surplus material avoid contact with the eye and skin. Impervious gloves/over all and a face

shied must be worn.

- Do not wash into the drains.
- Do not mix with other waste materials.
- Dispose of in accordance with Federal State and local authority regulations.
- Seek advice from the local waste authority or contact medical for guidance

14. TRANSPORT INFORMATION:

IATA

Not regulated as a hazardous material.

IMO

Not regulated as a hazardous material.

RID/ADR

Not regulated as a hazardous material.

- Not classified as hazardous for transport.

15. REGULATORY INFORMATION:

- European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XN

Risk Phrases:

R41: Risk of serious damage to eyes.

R38: Irritating to skin.

Safety Phrases:

S26: In case of contact with eyes, rinse immediately with plenty of water. Seek medical advice.

S39: Wear eye / face protection.

- WGK (Water Danger/Protection): 2

16. OTHER INFORMATION:

The information provided in this material safety data sheet is correct to the best of our knowledge. No warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof Zhengzhou Clean Chemical Co., Ltd. assumed no responsibility for any personal injury or property damage caused by the materials. Users assume all risks associated with the use of the materials.