SLES (Sodium Lauryl Ether Sulphate)  
- 2mol 70% grade

DATE OF ISSUE: 2013-02-19

Section 1 - Chemical Product and Company Identification

MSDS Name: Sodium Lauryl Ether Sulphate, 2mol 70% grade  
Other names: Alcohol Ethoxy Sulphate 70%  
Catalog Numbers: NC9503495, NC9535873  
Synonyms: None.  
Company identification: LUKEM (Nanjing) Co., Ltd.  
For information, call: 0086-25 85552309  
Emergency Number: 0086-25-85552709  
For CHEMTREC assistance, call: 00386 1 244 3293  
For International CHEMTREC assistance, call: 00386 1 244 3291

Section 2 - Composition, Information on Ingredients

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Chemical Name</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>9004-82-4</td>
<td>Sodium Laurylethersulfate</td>
<td>70</td>
</tr>
<tr>
<td>7732-18-5</td>
<td>Water</td>
<td>30</td>
</tr>
</tbody>
</table>

Hazard Symbols: None listed  
Risk Phrases: None listed

Section 3 - Hazards Identification

Appearance: almost colorless liquid. Caution! May be harmful if swallowed. May cause eye and skin irritation. May cause allergic skin reaction. This is expected to be a low hazard for usual industrial handling.  
Target Organs: None known.  
Potential Health Effects  
Eye: May cause moderate irritation.  
Skin: May cause moderate skin irritation. Prolonged and/or repeated contact may cause irritation and/or dermatitis. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to
this material.

**Ingestion:** May cause irritation of the digestive tract. Low hazard for usual industrial handling.

**Inhalation:** May cause respiratory tract irritation. Low hazard for usual industrial handling.

**DEVELOPMENTAL TOXICITY:** Not available. The substance is toxic to lungs, mucous membranes. Repeated or prolonged exposure to the substance can produce target organs damage.

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### Section 4 - First Aid Measures

**Eyes:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation develops, get medical aid.

**Skin:** Flush skin with plenty of 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:** If victim is conscious and alert, give 2-4 cupfuls of milk or water. Wash mouth out with 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. Get medical aid if cough or other symptoms appear.

**Notes to Physician:** Treat symptomatically and supportively.

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### Section 5 - Fire Fighting Measures

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use extinguishing media appropriate to the surrounding fire. Substance is noncombustible.

**Extinguishing Media:** Substance is noncombustible; use agent most appropriate to extinguish surrounding fire.

**Flash Point:** Not applicable.

**Autoignition Temperature:** Not applicable.

**Explosion Limits, Lower:** Not available.

**Upper:** Not available.

**NFPA Rating:** (estimated) Health: 1; Flammability: 0; Instability: 0

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### Section 6 - Accidental Release Measures

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section. Provide ventilation.
Section 7 - Handling and Storage

**Handling:** Wash thoroughly after handling. Wash hands before eating. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Use with adequate ventilation.

**Storage:** Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8 - Exposure Controls, 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.

**Exposure Limits**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>NIOSH</th>
<th>OSHA - Final PELs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium lauryl sulfate</td>
<td>none listed</td>
<td>none listed</td>
<td>none listed</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>none listed</td>
<td>none listed</td>
<td>none listed</td>
</tr>
<tr>
<td>Water</td>
<td>none listed</td>
<td>none listed</td>
<td>none listed</td>
</tr>
</tbody>
</table>

Sodium lauryl sulfate: none listed
Sodium chloride: none listed
Water: none listed

**OSHA Vacated PELs:** Sodium lauryl ether sulfate: No OSHA Vacated PELs are listed for this chemical.
Sodium chloride: No OSHA Vacated PELs are listed for this chemical.
Water: No OSHA Vacated PELs are listed for this chemical.

**Personal Protective Equipment**

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to minimize contact with skin.

**Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

Section 9 - Physical and Chemical Properties

**Physical State:** Liquid

**Appearance:** almost colorless

**Odor:** none reported

**pH:** 7.0-10.5
Vapor Pressure: Not available.
Evaporation Rate: Not available.
Viscosity: Not available.
Boiling Point: N/A deg C
Melting Point: N/A deg C
Decomposition Temperature: Not available.
Solubility: Soluble.
Specific Gravity/Density: N/A (water=1)
Molecular Formula: Not available
Molecular Weight: Not available.

Section 10 - Stability and Reactivity

Chemical Stability: Stable at room temperature in closed containers under normal storage and handling conditions.
Conditions to Avoid: Incompatible materials, excess heat.
Incompatibilities with Other Materials: Dichloromaleic anhydride + urea, nitrogen compounds.
Hazardous Decomposition Products: Oxides of sulfur, irritating and toxic fumes and gases, sodium oxide.
Hazardous Polymerization: Has not been reported

Section 11 - Toxicological Information

RTECS#:
CAS# 9004-82-4
Draize test, rabbit, eye: 100 mg/24H Moderate;
Draize test, rabbit, eye: 250 ug Mild;
Draize test, rabbit, eye: 2 mg;
Draize test, rabbit, eye: 10 mg Moderate;
Draize test, rabbit, skin: 50 mg/24H Severe;
Draize test, rabbit, skin: 25 mg/24H Moderate;
Draize test, rabbit, skin: 250 mg/24H Moderate;
Draize test, rabbit, skin: 10 mg/24H;
Draize test, rabbit, skin: 50 mg/24H Mild;
Inhalation, rat: LC50 = >3900 mg/m3/1H;
Oral, rat: LD50 = 1288 mg/kg;<BR.
CAS# 7732-18-5: Oral, rat: LD50 = >90 mL/kg;<BR.
Carcinogenicity:
CAS# 9004-82-4: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA. CAS# 7732-18-5: Not listed by ACGIH,
IARC, NIOSH, NTP, or OSHA.

**Epidemiology:** No information available.

**Teratogenicity:** No information available.

**Reproductive Effects:** No information available.

**Neurotoxicity:** No information available.

**Mutagenicity:** No information available.

**Other Studies:** See actual entry in RTECS for complete information.

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**Section 12 - Ecological Information**

**Ecotoxicity:** Not available.

**BOD5 and COD:** Not available.

**Products of Biodegradation:**
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

**Toxicity of the Products of Biodegradation:** The product itself and its products of degradation are not toxic.

**Special Remarks on the Products of Biodegradation:** Not available.

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**Section 13 - Disposal Considerations**

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

**RCRA P-Series:** None listed.

**RCRA U-Series:** None listed.

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**Section 14 - Transport Information**

**DOT Classification:** Not a DOT controlled material.

**RID/ADR:** Non-Hazardous for transport, this substance is considered to be non-hazardous for transport

**IATA:** Non-Hazardous for Air Transport

**IMO:** Non-Hazardous for Sea Transport

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**Section 15 - Regulatory Information**

**US FEDERAL**
TSCA: CAS# 9004-82-4 is listed on the TSCA inventory. CAS# 7732-18-5 is listed on the TSCA inventory.

Health & Safety Reporting List: None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules: None of the chemicals in this product are under a Chemical Test Rule.

Section 12b: None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule: None of the chemicals in this material have a SNUR under TSCA.

SARA CERCLA Hazardous Substances and corresponding RQs: None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances: None of the chemicals in this product have a TPQ.

Section 313: No chemicals are reportable under Section 313.

Clean Air Act: This material doesn’t contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters.

Clean Water Act: None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA: None of the chemicals in this product are considered highly hazardous by OSHA.

STATE: CAS# 9004-82-4 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

CAS# 7732-18-5 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available.

Risk Phrases:

Safety Phrases:

WGK (Water Danger/Protection): CAS# 9004-82-4

CAS# 7732-18-5: No information available.

Canada - DSL/NDSL: CAS# 9004-82-4 is listed on Canada’s DSL List.

CAS# 7732-18-5 is listed on Canada’s DSL List.

Canada - WHMIS: WHMIS: Not available.

Canadian Ingredient Disclosure List: CAS# 9004-82-4 is listed on the Canadian Ingredient Disclosure List.

Section 16 - Additional Information

MSDS Creation Date: 06/18/2011

Disclaimer:
The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall LUKEM be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if LUKEM has been advised of the possibility of such damages.