1、Chemical Product and Company Identification

- Product: Anionic Surfactant
- Chemical Name: Alpha Olefin Sulfonate
- Company Identification: Qingdao Chemtrade International Technology Co., Ltd.
- Address: Rm. 2-501, Huaxia Zonghe Building, No. 410, Jinggangshan Road, Huangdao, Qingdao, Shandong, China 266555
- Tel & Fax: +86-532-86893005

2、Composition, Information on Ingredients

- Chemical Structure: \( R-\text{CH}=\text{CH}-(\text{CH}_2)_n\text{SO}_3\text{Na} \), \( R=C_{14-18} \)
  - \( \alpha \)-alkenyl sulfonic acid sodium: \( \sim 60\% \)
  - Hydroxyl alkyl sulfonates: \( \sim 30\% \)
- Active Principle: Disulfonat: \( \sim 10\% \)
  (with little Na\( \text{SO}_4 \), NaCl, un-reacted olefins, H\( \text{O} \))
- CAS No.: 68439-57-6

3、Hazards Identification

- Risk Category: Non-dangerous goods
- Route of Entry: Inhalation, ingestion, Skin Contact
- Dangerous Explain: Weak excitant
- Hazard Info. of Human and Environmental: Little irritation to eyes and skin

4、First Aid Measures

- Eye: If accidental eye contact occurs, wash thoroughly with water and get medical care.
- Skin: Wash exposed skin thoroughly with soap and water.
- Inhalation: Leave the spot quickly to ventilation places
- Ingestion: Call the doctor when be in serious symptoms

5、Fire Fighting Measures
### Material Safety Data Sheet

**Alpha Olefin Sulfonate**

<table>
<thead>
<tr>
<th><strong>Suitable Extinguishing Media</strong></th>
<th>Use dry chemical, sandy soil, chemical foam or carbon dioxide.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Extinguishing Method</strong></td>
<td>Outfire following the wind</td>
</tr>
<tr>
<td><strong>Harmful Combustion Products</strong></td>
<td>Carbon monoxide, carbon dioxide, sulfide, oxidation sodium</td>
</tr>
<tr>
<td><strong>Special Protective Equipment</strong></td>
<td>Protective clothing and self-contained breathing equipment should be available for firefighters.</td>
</tr>
</tbody>
</table>

#### 6、Accidental Release Measures

- Mix with inert material (eg. dry sand, vermiculite) and transfer to sealed container for disposal.

#### 7、Handling And Storage

- **Handling**
  - Avoid prolonged or repeated contact with skin. Do not breathe vapour.
- **Storage**
  - Store in a cool, well-ventilated area. Far from various corrosion source
  - Pipeline and containers with stainless steel and require seal.
  - Preservation of bag products in room temperature should be isolated ground,
  - Rainproof, moisture proof, sunshine resistant, ventilation

#### 8、Exposure Controls, Personal Protection

- **Exposure Controls**
  - The substance presents no explosive hazard.
- **Ventilation**
  - Local exhaust is required.
- **Protection Clothing**
  - No protective clothing is normally required.
- **Eye Protection**
  - Chemical Worker’s goggles are required if engineering controls or work practices are not adequate to prevent eye contact.

#### 9、Physical and Chemical Properties

- **Appearance**
  - Light yellow powder
  - Light yellow clear liquid
- **Odor**
  - Characteristic odor
### Material Safety Data Sheet

**Alpha Olefin Sulfonate**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting Point (°C)</td>
<td>204-207</td>
</tr>
<tr>
<td>Boiling Point (°C)</td>
<td>No date</td>
</tr>
<tr>
<td>Flashing point (°C)</td>
<td>No date</td>
</tr>
<tr>
<td>Specific Gravity (g/cm³)</td>
<td>Powder: 0.38-0.4</td>
</tr>
<tr>
<td></td>
<td>Liquid: 1.02-1.04</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>Data not available</td>
</tr>
<tr>
<td>Solubility (g/l)</td>
<td>Easily soluble in water, 350</td>
</tr>
<tr>
<td>HLB value</td>
<td>11</td>
</tr>
<tr>
<td>Critical Micelle Concentration</td>
<td>0.6g/l</td>
</tr>
<tr>
<td>Kraft (°C)</td>
<td>No date</td>
</tr>
<tr>
<td>Ignition temperature (°C)</td>
<td>No date</td>
</tr>
<tr>
<td>Upper Explosive Limit% (V/V)</td>
<td>No date</td>
</tr>
<tr>
<td>Relative Vapor Density (air=1)</td>
<td>No date</td>
</tr>
<tr>
<td>Lod Score of Octanol/Water Distribution Coefficient</td>
<td>No date</td>
</tr>
<tr>
<td>Main Application</td>
<td>Mainly be used in mild detergent and products for baby, such as hand lotion, washing powder, complex soap, shampoo, bath-lotion, facial cleaning cream, phosphorus free detergent. AOS can also be used as industrial detergents.</td>
</tr>
</tbody>
</table>

#### 10. Stability and Reactivity

<table>
<thead>
<tr>
<th>Stability</th>
<th>In the closed-up flash point test, fp&gt;80°C, so the substance does not belong to flammable liquid. Unstable under the acidic conditions, so be away from acidic materials</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forbidden Match Things</td>
<td>No requirement</td>
</tr>
<tr>
<td>Thermal Decomposition</td>
<td>Indissolubility</td>
</tr>
<tr>
<td>Reactivity Hazard</td>
<td>Adiaphora</td>
</tr>
<tr>
<td>Dangerous Decomposition Products</td>
<td>No requirement</td>
</tr>
</tbody>
</table>
### 11. Toxicological Information

- The substance does not belong to toxic substances.
  - **Acute Toxicity**
    - LD/LC50: (Mice oral) General stimulation reactions
  - **Skin Irritation** May cause light irritation to skin.
  - **Eye Irritation** May cause moderate irritation to eye.
  - **Sensitization** Non-allergies within known range

### 12. Ecological Information

- Light pollution to water, but easily biodegradable. It will not be permitted to enter the groundwater and sewage system without treated

### 13. Disposal Considerations

- **Waste Property** Non-hazardous waste
- **Disposal Method** Individually, cannot be mixed processing with general refuse
- **Waste Packaging** Processing as concerned regulation

### 14. Transport Information

- Can use highway and railway shipping methods such as transportation
  - **Attention** Packing should be complete and load in the process of transportation should be safer to ensure that containers not leak, not collapse, not fall, no damage, and not allow mixed with corrosive materials, transit should prevent insolate and rain, prevent heat. Vehicle should be thoroughly cleaned after transport.

### 15. Regulatory Information

<table>
<thead>
<tr>
<th>Laws and Regulations</th>
<th>According to Manufacturing ID of GB/20200-2006</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazard Warning</td>
<td>Wear goggle when contact. If accidental eye contact occurs, wash thoroughly with water and get medical care.</td>
</tr>
<tr>
<td>National Regulation</td>
<td>Water pollution as secondary (internal evaluation)</td>
</tr>
</tbody>
</table>

### 16. Other Information
Material Safety Data Sheet

Alpha Olefin Sulfonate

- The above information is given in good faith, but no guarantee. It is intended to describe our products from point of view of safety requirements.
- Above content just products of general knowledge, but all of the information
- This manual do not have legally contact relationship.