


<b>Material Safety Data Sheet</b>		
Alpha Olefin Sulphonate		
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## 1. Chemical Product and Company Identification

**INCI name:** Alpha Olefin Sulphonate ( $\alpha$ -Olefin Sulfonate)

**CAS No.:** 68439-57-6

**Chemical structure:**  $\text{RCH(OH)(CH}_2\text{)}_n\text{-SO}_3\text{Na}$  (n= 14~16)

**Trade name:** Yeser® AOS 92%

**Product application:** Commonly used in detergents, personal care products and cosmetics.

**Supplier name:** GUANGZHOU YESER CHEMICALS CO., LTD

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**Emergency contact number:** +86-20- 86213761

## 2. Hazards Identification

### 2.1. Classification of the substance or mixture

<b>Physical and Chemical Hazards</b>	Not classified.
<b>Eye contact</b>	May cause significant eye irritation.
<b>Skin contact</b>	May cause significant skin irritation especially If exposure is prolonged and/or repeated.
<b>Inhalation</b>	Inhalation of vapors or mists of the product may be irritating to the respiratory system.
<b>Ingestion</b>	Ingestion of large amounts may produce gastrointestinal disturbances including irritation, nausea, and diarrhea.

### 2.2. Label elements

**Label In Accordance With (EC) No. 1272/2008**




**Signal Word** Warning

#### Hazard Statements

Harmful if swallowed  
Causes skin irritation  
Causes serious eye irritation  
May cause respiratory irritation

#### Precautionary Statements

Avoid breathing dust

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Wash exposed skin thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

Wear eye protection, protective gloves.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN: Wash with plenty of soap and water.

Call a POISON CENTER or doctor/physician.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

#### Supplementary Precautionary Statements

Take off contaminated clothing and wash before reuse.

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

Dispose of contents/container to comply with local, state and federal regulations.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

### 3. Composition/Information on Ingredients

Component	CAS NO.	Percentage, wt, %
Alpha-Olefin Sulfonate	68439-57-6 38	90~94
Water	7732-18-5	≤2
Alpha-Olefin	1120-36-1	≤5.0
Sodium sulfate	7757-82-6	≤6.0
Sodium chloride	7647-14-5	≤0.5

### 4. First aid Measures

#### 4.1. Description of first aid measures

##### First-aid measures general:

Never give anything by mouth to an unconscious person.


If you feel unwell, seek medical advice (show the label where possible).

##### First-aid measures after inhalation:

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

##### First-aid measures after skin contact:

Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

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**First-aid measures after eye contact:**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**First-aid measures after ingestion:**

Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a POISON CENTER or doctor/physician if you feel unwell.

#### 4.2. Most important symptoms and effects, both acute and delayed

**Potential Adverse human health effects and symptoms:** Based on available data, the classification criteria are not met. Harmful if swallowed.

**Symptoms/effects after inhalation:**

May cause respiratory irritation.

**Symptoms/effects after skin contact:**

Causes skin irritation.

**Symptoms/effects after eye contact:**

Causes serious eye irritation.

**Symptoms/effects after ingestion:**

Swallowing a small quantity of this material will result in serious health hazard.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat Symptomatically.

### 5. Fire-fighting Measures

#### 5.1. Extinguishing media

**Extinguishing media**

Suitable extinguishing media:

Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media:

Do not use a heavy water stream.

#### 5.2. Special hazards arising from the substance or mixture

Fumes containing carbon dioxide, carbon monoxide, Sulphur dioxide may be formed in large fires.

#### 5.3. Advice for firefighters

**Special Fire Fighting Procedures**

Containers close to fire should be removed immediately or cooled with water.

**Protective equipment for fire-fighters**

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

### 6. Accidental Release Measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

**Protective equipment:**

Gloves. Safety glasses. Equip cleanup crew with proper protection.

**Emergency procedures:**


Evacuate unnecessary personnel. Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

Avoid generation and spreading of dust. Remove spillage with vacuum cleaner. If not possible, collect spillage with shovel, broom or the like.

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Flush with plenty of water to clean spillage area. Do not let washing down water contaminate ponds or waterways.

#### 6.4. Reference to other sections

For waste disposal, see section 13.

### 7. Handling and storage

#### 7.1. Precautions for safe handling

**Precautions for safe handling:**

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Avoid breathing dust. Use only outdoors or in a well-ventilated area.

**Hygiene measures:**

Do not eat, drink or smoke when using this product.  
Wash exposed skin thoroughly after handling.

#### 7.2. Conditions for safe storage, including any incompatibilities

**Storage conditions:**

Keep container tightly closed.

**Incompatible products:**

Strong oxidizers.

**Incompatible materials:**

Sources of ignition. Generation of airborne dust.

**Storage class:**

Chemical storage.

### 8. Exposure controls/personal protection

#### 8.1. Exposure controls

**Protective equipment**



**Process conditions:**

All chemical Personal Protective Equipment (PPE) should be selected based on an assessment of both the chemical hazard present and the risk of exposure to those hazards. The PPE recommendations below are based on an assessment of the chemical hazards associated with this product. Where this product is used in a mixture with other products or fluids, additional hazards may be created and as such further assessment of risk may be required. The risk of exposure and need of respiratory protection will vary from workplace to workplace and should be assessed by the user in each situation.


**Engineering measures:**

Provide adequate general and local exhaust ventilation.

**Respiratory equipment:**

No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists. Wear mask supplied with: Dust filter P2 (for fine dust).

**Hand protection:**

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For prolonged or repeated skin contact use suitable protective gloves. Butyl rubber. Polyvinyl chloride (PVC).

**Eye protection:**

Wear approved safety goggles.

**Other Protection:**

Wear appropriate clothing to prevent any possibility of skin contact. Provide eyewash station.

## 9. Physical and chemical properties

Water Solubility:	Highly soluble
Specific Gravity:	1.05
pH Value:	7-9
Odor:	Slight characteristic odor
Appearance:	Light yellow ceamy powder
Whiteness(WG):	≥ 80

## 10. Stability and reactivity

### 10.1. Reactivity

Strong oxidizing agents.

### 10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

### 10.3. Possibility of hazardous reactions

Not known.

### 10.4. Conditions to avoid

Extremely high or low temperatures.

### 10.5. Incompatible materials

**Materials To Avoid**

Strong oxidizing agents.


### 10.6. Hazardous decomposition products

Upon decomposition, this product may yield sulfur dioxide and oxides of sulfur.

## 11. Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral): Harmful if swallowed.	Serious eye damage/irritation: Causes serious eye irritation.
Acute toxicity (dermal): Not classified	Respiratory or skin sensitization: Not classified
Acute toxicity (inhalation): Not classified	Germ cell mutagenicity: Not classified
LD50 oral rat: > 2000 mg/kg	Carcinogenicity: Not classified
ATE US (oral): > 2000 mg/kg body weight	Reproductive toxicity: Not classified
Skin corrosion/irritation: Causes skin irritation.	

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## 12. Ecological information

### 12.1. Toxicity

LC50 fish  $1 \geq 500$  mg/l

### 12.2. Persistence and degradability

This product is highly degradable.

### 12.3. Bio accumulative potential

Bio accumulative potential: No data available on bioaccumulation.

### 12.4. Mobility in soil

Mobility: The product is soluble in water.

### 12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

### 12.6. Other adverse effects

Avoid release to the environment.

## 13. Disposal considerations

Waste disposal recommendations: Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials: Avoid release to the environment.

## 14. Transport information

General The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

### 14.1. UN number

Not applicable.

### 14.2. UN proper shipping name

Not applicable.

### 14.3. Transport hazard class(es)

Not applicable.

### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant


No.

### 14.6. Special precautions for user

Not applicable.

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

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## 15. Regulatory Information

**The following laws, regulations, rules and standards have made corresponding provisions on the management of the chemical:**

Workplace Safety Chemicals Regulations

Convention on the Safe Use of Chemicals in the Workplace

## 16. Other Information

### Writing and revising information

**Date originally compiled:** April 12, 2015

**Date of last revision:** June 08, 2020

Re-compiled according to the latest enterprise standard GB/T 20200-2006, the version has been upgraded from 1.0 to 2.0, and the product information has been updated.

IMPORTANT: while the descriptions, designs, data and information contained herein are presented in good faith and believed to be accurate, it is provided for your guidance only. Because many factors may affect processing or application/use, we recommend that you make tests to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding products described or designs, data or information set forth, or that the products, designs, data or information may be used without infringing the intellectual property rights of others. In no case shall the descriptions, information, data or designs provided be considered a part of our terms and conditions of sale. Further, you expressly understand and agree that the descriptions, designs, data, and information furnished by our company hereunder are given gratis and we assume no obligation or liability for the description, designs, data and information given or results obtained, all such being given and accepted at your risk.

END OF DATA SHEET