

### Name

Sodium C14-16 olefin sulfonate 92%

### Synonyms

CAS:68439-57-6;Sulfonic acids,Sodium alpha-olefin Sulfonate,C14-16-alkane hydroxy and C14-16-alkene,sodium salts,Alpha Olefin Sulphonate,Sodium C14-16 olefin sulfonate,AOS 92

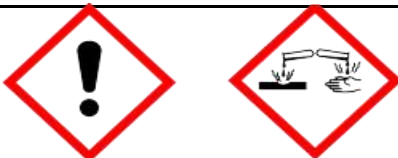
### Application

Detergent  
Foaming Agent for Building Materials  
Phosphate-free Laundry Detergent  
Fire Extinguishing Aid/Adjuvant  
Foaming Agent

### product info

CAS Number	68439-57-6
EC Number	931-534-0
Molecular formula	R-CH=CH-(CH <sub>2</sub> ) <sub>n</sub> SO <sub>3</sub> Na, R=C14-18
Appearance	White or Light yellow powder form
Active matter (%)	≥92
petroleum ether soluble substances (%)	≤3.0
NaSO(%)	≤5.5
NaCL(%)	≤0.15
free alkalinity (%)	≤1
Water(%)	≤30
PH Value(1% aq solution)	9-12
Whiteness(WB)	≥80
Color(Hazen)(5% aqueoussolution of active	≤120

### Safety & Regulations

Pictograms	
Signal word	Danger
Hazard statements	H315: Causes skin irritation H318: Causes serious eye damage
Precautionary statements	P264: Wash thoroughly after handling P280: Wear: protective gloves/ clothing & eye protection P302+352: IF ON SKIN: Wash with soap and water P305+351+338: IF IN EYES: Rinse with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing P332+313: IF skin irritation occurs: Get medical advice/attention

# Material Safety Data Sheet

2011-05-16

Product: AOS

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## 1、 Chemical Product and Company Identification

- Product Anionic Surfactant
- Chemical Name Alpha Olefin Sulfonate
- Company Identification Dongming Jujin Chemical Industry Co., Ltd.  
Zibo Industry Park, Developing District, Heze
- Address City, Shandong Province, China 274500

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## 2、 Composition, Information on Ingredients

- Chemical Structure  $R-CH=CH-(CH_2)_nSO_3Na$ ,  $R=C_{14-18}$   
 $\alpha$ -alkenyl sulfonic acid sodium: ~  
60% Hydroxyl alkyl sulfonates : ~30%
- Active Principle Disulfonat: ~10%  
(with little  $Na_2SO_4$ 、  $NaCl$ 、 unreacted olefins、  $H_2O$   
) 68439-57-6
- CAS No.

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## 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

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## 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.

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- Inhalation                                      Leave the spot quickly to ventilation places
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- Ingestion                                         Call the doctor when be in serious symptoms
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## 5、 Fire Fighting Measures

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

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## 6、 Accidental Release Measures

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

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## 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, moistureproof, sunshine resistant, ventilation

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## 8、 Exposure Controls, Personal Protection

- Exposure Controls                      The substance presents no explosive
  - Ventilation                                hazard. 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.
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## 9、 Physical and Chemical Properties

- Appearance                                Light yellow powder

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	Light yellow clear
• Odor	liquid Characteristic
• Melting point(°C)	odor 204-207
• Boiling Point(°C)	No
• Flashing point(°C)	date
• Specific Gravity(g/cm <sup>3</sup> )	No
	date
• Vapour	Powder: 0.38-0.4
• pressure	
Solubility (g/l )	Liquid: 1.02-1.04
	Data not available
	Easily soluble in water, 350
• H L B value	11
• Critical Micelle Concentration	0.6g/l
• Krafft (°C)	No date
• Ignition temperature (°C)	No date
• Upper Explosive Limit%(V/V)	No date
• Relative Vapor Density(air=1)	No date
• Lod Score of Octanol/Water Distribution Doefficient	No date
• Main Application	Mainly be used in mild detergent and products for baby, such as hand lotion, washing powder, complex soap, shampoo, bathlotion, facial cleaning cream, phosphorus free detergent. AOS can also be used as industrial detergents.

## 10. Stability and Reactivity

- Stability  
In the closed-up flash point test,  $fp > 80\text{ }^{\circ}\text{C}$ , so the substance does not belong to flammable liquid.  
Unstable under the acidic conditions, so be away from acidic materials
  - Forbidden Match Things  
No requirement
  - Thermal Decomposition  
Indissolubility
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• Reactivity Hazard	Adiaphoria
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• Dangerous Decomposition	No requirement
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Products

## 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.
- Sensitisation 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. Vehical should be thoroughly cleaned after transport.
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Integrity Professional  
15、Regulatory Information

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<ul style="list-style-type: none"><li>Laws and Regulations</li></ul>	According to Manufacturing ID of GB/20200-2006
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<ul style="list-style-type: none"><li>Hazard Warning</li></ul>	Wear goggle when contact. If accidental eye contact occurs, wash thoroughly with water and get medical care.
<ul style="list-style-type: none"><li>National Regulation</li></ul>	Water pollution as secondary (internal evaluation)

## 16、Other Information

- 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 don't have legally contact relationship.