

Name

Sodium C14-16 olefin sulfonate 38% (AOS38)

Synonyms

CAS:68439-57-6;AOS38,Sulfonic acids,Sodium alpha-olefin Sulfonate,C14-16-alkane hydroxy and C14-16-alkene,sodium salts,Alpha Olefin Sulphonate,Sodium C14-16 olefin sulfonate,

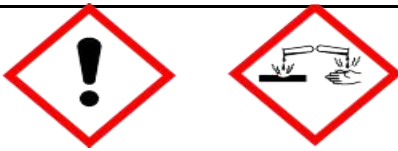
Application

Petroleum Additive (Demulsifier)
Laundry Detergent Dish
Washing Liquid Foam
Stabilizer for Gypsum Board

Product info

CAS Number	68439-57-6
EC Number	931-534-0
Molecular formula	R-CH=CH-(CH ₂) _n SO ₃ Na, R=C14-18
Appearance	Light yellow transparent liquid
Active matter (%)	≥38
petroleum ether soluble substances (%)	≤1.5
NaSO(%)	≤1.0
free alkalinity (%)	≤1.0
PH Value(5% aq solution)	7-9
Color (5% aq solution)	≤60

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

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Product: AOS

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

2、Composition, Information on Ingredients

- Chemical Structure $R-CH=CH-(CH_2)_nSO_3Na$, $R=C_{14-18}$
 α -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.

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.

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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.

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, moistureproof, sunshine resistant, ventilation

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 ³)	No
	date
• Vapour pressure	Powder: 0.38-0.4
• 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 Coefficient	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

Qingdao Orid Chem Co., Ltd.
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- Laws and Regulations

According to Manufacturing ID of GB/20200-2006

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Product: AOS

<ul style="list-style-type: none">• Hazard Warning	Wear goggle when contact. If accidental eye contact occurs, wash thoroughly with water and get medical care.
<ul style="list-style-type: none">• National Regulation	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.