



Material Safety Data Sheet

Alpha Olefin Sulfonate

1、 Chemical Product and Company Identification

- Product Anionic Surfactant
- Chemical Name Alpha Olefin Sulfonate
- Company Identification HEBEI KAIBEL INDUSTRY CO.,LTD.
Shijiazhuang High tech Development Zone,
Hebei, China
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2、 Composition, Information on Ingredients

- Chemical Structure $R-CH=CH-(CH_2)_nSO_3Na$, $R=C_{14-18}$
 α -alkenyl sulfonic acid sodium: ~60%
- Active Principle Hydroxyl alkyl sulfonates: ~30%
Disulfonate: ~10%
(with little Na_2SO_4 , $NaCl$, un-reacted olefins, H_2O)
- 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

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- 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 ,moisture proof ,sunshine resistant, ventilation
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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.
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9、 Physical and Chemical Properties

- Appearance Light yellow powder
Light yellow clear liquid
- Odor Characteristic odor

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• Melting point(°C)	204-207
• Boiling Point(°C)	No date
• Flashing point(°C)	No date
• Specific Gravity(g/cm ³)	Powder: 0.38-0.4 Liquid: 1.02-1.04
• Vapour pressure	Data not available
• Solubility (g/l)	Easily soluble in water, 350

• H L B value	11
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• Critical Micelle Concentration	0.6g/l
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• Kraft (°C)	No date
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• Ignition temperature (°C)	No date
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• Upper Explosive Limit%(V/V)	No date
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• Relative Vapor Density(air=1)	No date
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• Lod Score of Octanol/Water Distribution Doefficient	No date
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• Main Application	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.
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10、 Stability and Reactivity

• Stability	In the closed-up flash point test, fp>80°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	Adiaphora
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• Dangerous Decomposition Products	No requirement
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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

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

16、 Other Information

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- 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.
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