

Product: AOS-35

Sheet No.: MSDS-005

Effective date: Jan. 1, 2013

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1、 Chemical Product and Company Identification

- Product AOS-35
- Chemical Name Sodium Alpha-olefin Sulfonate
- Company Identification Nanjing Chemical Material Corp.
- Address No.5 New Model Rd, Nanjing, China
- Postal Code 210009
- Tel (86-25)52337978
- Fax (86-25)52337978
- web www.njchm.com

For emergency involving a spill,leak,fire,exposure or accident contact:

- Tel(86-25) 52337978

2、 Hazards Identification

- Warning Statements Warning!! Severe eye, skin and respiratory tract irritant.
- Eye Contact Severe irritant. Causes redness, tearing.
- Skin Contact Severe irritant. Causes redness, inflammation.
- Inhalation Inhalation not likely. Mists may cause upper respiratory tract irritation.
- Ingestion Practically non-toxic.
- Chronic effects This product does not contain any ingredient designated by IARC, NTP, AGGIH or OSHA as probable or suspected human carcinogens.

3、 Composition, Information on Ingredients

- Chemical Structure ① $R-CH=CH-(CH_2)_n-SO_3Na$ (n=0,1,2)
- ② $R-CH_2-CH(OH)-(CH_2)_n-SO_3Na$ (n=2,3)
- ③ $R-CH_2-CH(OSO_3Na)-CH_2-SO_3Na$
- Active Ingredient (35.0±1.0)%

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- CAS No. Data not available.
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4、 First Aid Measures

- Eye Contact Flush eyes with water immediately while holding the eyelids open. Remove contact lenses, if worn, after initial flushing, and continue flushing for at least for 15 minutes. Get medical attention if irritation persist.
 - Skin Contact In case of contact, immediately wash with plenty of soap and water for at least 5 minutes. Seek medical attention. Remove contaminated clothing and shoes. Clean contaminated clothing and shoes before reuse.
 - Inhalation In case of inhalation, move the exposed person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if breathing difficulties continued.
 - Ingestion If victim is conscious and alert, give 1-2 glasses of water to drink. Do not give anything by mouth to an unconscious person. Seek medical attention. Do not leave victim unattended.
 - Note to Physician All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred. Treat symptomatically. No specific antidote available.
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5、 Fire Fighting Measures

- Unusual Fire and Explosion Hazards Product will burn under fire conditions. Closed containers may explode(due to the build-up of pressure) when exposed to extreme heat.
- Hazardous Decomposition Materials(Under Fire Condition) Oxides of Sulphur and oxides of Carbon.
- Suitable Extinguishing Media Use dry chemical, sandy soil, chemical foam or carbon dioxide.
- Exposure Hazards During Fire None
- Special Protective Equipment Protective clothing and self-contained breathing equipment should be available for

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firefighters.

6、 Accidental Release Measures

- Cleanup and Disposal of Spill Absorb with inert material (eg. dry sand, vermiculite). Sweep up and place in an appropriate closed container. Clean up residual material by washing area with water. Collect washings for disposal.
 - Environmental and Regulatory Reporting Do not flush to drain. Spills may be reportable to the National Response Centre and to state and/or local agencies.
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7、 Handling and Storage

- Handling Avoid breathing vapours and mists. Avoids direct or prolonged contact with skin and eyes. If freezing occurs, thaw and remix before using. Frozen material may be thawed in a warm room. Avoid localized overheating. Vent drums while heating. Mix thoroughly to assure homogeneity.
Ethylene oxide may collect in container head space. Although concentrations are expected to remain below established exposure limits, provide adequate ventilation when accessing or working with open containers and tanks.
 - Storage Store in a cool, well-ventilated area. Keep away from heat and flame. Store in a tightly closed container.

Incompatibilities: oxidants and food.

Storage temperature: 25~45°C.

Storage duration: 12 Months.
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8、 Exposure Controls, Personal Protection

- Exposure Controls No exposure limits were found for this product or any of its ingredients.
- Ventilation Local exhaust is required.
- Respiratory Protection When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industrial recommendations.

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- For reasonably foreseeable industrial end uses of this material, respiratory protection should not be necessary.
- **Protection Clothing** No protective clothing is normally required.
 - **Eye/Face Protection** Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material. Eye contact should be prevented through the use of chemical safety glasses with side shields or splash proof goggles.
Emergency eyewash must be readily accessible to the work area.
 - **Skin Protection** Skin contact should be minimized through the use of gloves and suitable long-sleeved clothing(i.e. shirts and pants). Consideration must be given both to durability as well as permeation resistance.
 - **Work Controls** **Practice** Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material:
 1. Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
 2. Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
 3. Wash exposed skin promptly to remove accidental splashes of contact with the material.

9. Physical and Chemical Properties

- **Appearance(20°C)** Pale straw-coloured, transparent liquid.
- **Odor** Faint fatty odor.
- **PH** 10.0-12.0
- **Boiling Point** > 100°C
- **Flash Point** ≥93.9°C
- **Flammability Class** Will burn.

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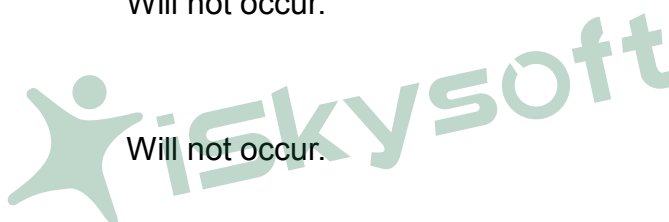
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- Vapour Pressure Data not available
 - Solubility Hardly soluble in water, practically soluble in acetone, practically soluble in ethanol.
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10、 Stability and Reactivity

- Stability In the closed-up flash point test, $fp > 80^{\circ}\text{C}$, so the substance does not belong to flammable liquid.
- Reactivity The substance does not react vigorously with reducing agent, so it does not belong to oxidizing substances.
- Conditions to Avoid Excessive heat, open flame and spark.
- Materials to Avoid Strong acids and strong oxidizing agents.
- Hazardous Will not occur.
- Decomposition Products
- Hazardous Polymerism Will not occur.



11、 Toxicological Information

- The substance does not belong to toxic substances.
 - Acute Oral Toxicity Moderately toxic: $LD_{50} > 6000\text{mg/kg}$, Rat
 - Skin Irritation May cause moderate irritation to skin.
 - Eye Irritation May cause moderate irritation to skin.
 - Sensitization Not a skin sensitizer.
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12、 Ecological Information

- No information available.
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13、 Disposal Considerations

- Disposal Method Chemical additions, processing or otherwise altering this material may make the waste management information presented in the MSDS incomplete, inaccurate or otherwise inappropriate. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state and local regulations regarding the proper

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disposal of this material.

- **Spill or Leak** In case of small amount, washes with water; In case of large amount, fences by non-flammable material and recovers.
- **Container Handling and Disposal** Any containers or equipment used should be decontaminated immediately after use.

14. Transport Information

- Not dangerous for conveyance under UN, IMO, ADR/RID and IATA/ICAO code.

15. Regulatory Information

- No information available.

16. Other Information

- National Fire Protection Association Hazard Ratings---NFPA(R):
 - 2 Health Hazard Rating --- Moderate.
 - 1 Flammability Rating --- Slight.
 - 0 Instability Rating --- Minimal.
- National Paint & Coating Hazardous Materials Identification System---HMIS(R):
 - 2 Health Hazard Rating --- Moderate.
 - 1 Flammability Rating --- Slight.
 - 0 Reactivity Rating --- Minimal.
- 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.