

Safety Data Sheet

Product name: AOS/92

The content and format of this SDS is accordant with GB/T 16483-2008 and GB/T17519-2013

Issuing Date: Jan. 2025

Version: 1.3

1. Identification of the substance/preparation and of the company/undertaking

Product name: AOS/92

Chemical name: Alpha olefin sulfonate

Supplier/Manufacturer: T I A N J I N C R E D I T I N T E R N A T I O N A L C O . , L I M I T E D

Address:Room 1209, Zhe Tradespeople Investment Mansion, Yingbin Avenue, Binhai New Area XiangLuoWan, Tianjin, China.

Email: E M L I Y _ C H E N G @ C R E D I T C H E M I C A L S . C O M . C N

Further information obtainable from: C R E D I T C H E M I C A L C O . , L I M I T E D

Information in case of emergency: Tel.: +86-18020005356

Recommended use of the chemical and restrictions on use: It is used as cleaning products and cosmetics raw material.

Restrictions on use: Restrictions on use: Do NOT use it in an application which may do harm to human health or may be hazardous to aquatic environment.

2. Hazards identification

Emergency overview:

It is white to pale yellow powder without peculiar smell. The product is not flammable, no special danger. May be harmful if swallowed. Causes skin irritation. Causes serious eye irritation. Toxic to aquatic life.

GHS hazard classification per GB 30000. 2-2013 ~ GB 30000. 29-2013:

Physical hazards: Not classified.

Health hazards: Acute toxicity (oral)- Category 5

Skin corrosion/irritation-2

Serious eye damage/eye irritation-2A

Environmental hazards: Acute hazards to the aquatic environment- Category 2

Signal word: Warning

Symbol:



Hazard Statement:

H315: Causes skin irritation.

H319: Causes serious eye irritation.

Prevention Precautionary Statements:

P264: Wash hands thoroughly after handling.

P273: Avoid release to the environment.

P280: Wear protective gloves, eye protection/face protection/antiskid shoes.

Response Precautionary Statements:

P312: Call a POISON CENTER/doctor/...if you feel unwell.

P302+P352: IF ON SKIN: Wash with plenty water.

P332+P313: If skin irritation occurs: Get medical advice/attention.

P362+P364: Take off contaminated clothing and wash it before reuse.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical advice/attention.

Storage precautionary statements:

No special requirement.

Disposal precautionary statements:

P501: Dispose of contents/container to relevant local and national regulations.

Physical and chemical hazards: It is white to pale yellow powder without peculiar smell. The product is not flammable, no special danger.

Health hazards: May be harmful if swallowed. Causes skin irritation. Causes serious eye irritation.

Environmental hazards: Toxic to aquatic life.

Other hazards: No information available.

3. Composition/information on ingredients

Product description: substance (); preparation/mixture(√)

Ingredient (s)	CAS number	% by weight
Alpha olefin sulfonate	68439-57-6	92
Sodium sulfate	7757-82-6	5
Water	7732-18-5	3

4. First aid measures

Persons using this product should consult a physician or other medical professional if an accident involving this product in injury. Specific first-aid measures are as follows:

Inhalation: There is no special requirement under normal conditions.

Skin Contact: In case of contact, wash with plenty of water. If irritation persists, get medical advice/attention. Take off contaminated clothing and wash it before reuse.

Eyes Contact: IF IN EYES: 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.

Ingestion: Rinse mouth. Do not induce vomiting without professional instruction. Get medical attention if discomfort occurs.

Acute effect and delayed effect: Acute effect: May be harmful if swallowed. Causes skin irritation. Causes serious eye irritation. Delayed effect: Not found.

Personal protective equipment: Recommend wearing protective gloves (e.g. rubber gloves).

Indication of any immediate medical attention and special treatment needed: No special requirements.

5. Fire-fighting measures

Extinguishing Media: In case of a fire, use dry chemical for small fire; water fog, foam or CO₂ for large fire. Do NOT use water jet which may make molten material splash. Seek advice from local fire-fighting authority. Seek advice from local fire-fighting authority.

Special hazards arising from the chemical: The product is not flammable. No special danger is found. It may release carbon monoxide, carbon dioxide and other hazardous gas from burning.

Special Fire-Fighting Method:

Remove all ignition sources when this can be done without any risk.

Extinguish fire from upwind, and the fire extinguishing method should be appropriate to the situation in the surroundings.

Cool surrounding facilities, etc. with water spray.

Remove containers from fire area if it can be done without risk.

Special actions for fire-fighters: Firefighters must wear gas mask, self-contained breathing apparatus and full protective equipment. Check whether the protective equipment is in good condition before use.

6. Accidental release measures

Personal precautions: Use proper personal protective equipment as indicated in Section 8.

Emergency procedures: Due to the nature of this product, there is no special requirement.

Environmental Precautions: Keep collected waste out of municipal sewers and open bodies of water. Comply with local and national laws and regulations.

Measures for Cleaning/Collection:

Small Spill:

First mop up or absorb with an inert dry material (e.g. sand), second neutralize the residuals with sodium carbonate and lastly flush with water. Collect the waste into an appropriately labeled waste disposal container.

Large Spill:

Isolate contaminated area and set up a warning board. The persons handling emergency are recommended wearing protective gloves, clothing, safety glasses and antiskid shoes. Make sure all the present persons safe. Avoid slipping. Containers should be clearly marked for recycling or disposed as waste.

First mop up or absorb with an inert dry material (e.g. sand), second neutralize the residuals with sodium carbonate and lastly flush with water.

Precautions for secondary hazards: Keep collected waste out of municipal sewers and open bodies of water.

7. Handling and storage

Precautions for safe handling:

Wash hands thoroughly after handling.

Avoid release to the environment.

Wear protective gloves, eye protection/face protection/antiskid shoes.

Do not use hypochlorite bleach, as it will produce sulfone to cause skin sensitization.

Storage:

Requirements to be met by storerooms: Avoid freezing and overheating. Store in a dry and well-ventilated place.

Incompatible materials: No special requirement.

Packing material: Store in stainless steel containers or plastic containers.

Additional Information: The storeroom should be equipped with proper facilities for accidental leakage and fire.

8. Exposure controls/personal protection

Occupational Exposure Limits:

Ingredients	OELs (mg/m ³) (GBZ 2.1-2007)				ACGIH TLV-TWA	
	MAC	PC-TWA	PC-STEL	remark	TLV-TWA	remark
Alpha olefin sulfonate	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

Monitoring Method: The hazardous substances should be monitored per GBZ 159 “*Sampling code for monitoring of hazardous substances in workplace air*”. The well-accepted monitoring methods of other countries are also can be adopted.

Biological limit: Not data available

Engineering Controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits.

Install washer eyes and safety showers near to the handling and storage area.

Personal Protective Equipment (for workers):

Protection of Hands:

Wear impermeable rubber gloves (e.g. Rubber gloves).



Respiratory Protection: There is no special requirement under normal conditions.

Protection of Body: Recommend wearing protective clothing and antiskid shoes.



General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Avoid contact with eyes and skin.

9. Physical and chemical properties

General Information	
Form	powder
Color	Colorless to pale yellow
Odor	Odorless
Boiling Range	> 100°C
Melting point/Melting range	No data available
Flash point	No data available
Flammable/Explosive Limits-Lower Vol %	No data available
Flammable/Explosive Limits-Upper Vol %	No data available
Relative Vapor density	No data available

Vapor pressure (@20°C)	No data available
Solubility in/Miscibility with Water	Soluble in water and ethanol
n-octanol/Water Partition Coefficient	No data available
Self-igniting	No data available
Decomposition Temperature	No data available
Odor Threshold Value	No data available
Evaporation Rate	No data available
Flammability (solid, gas, etc.)	This product is not classified as flammable.

10. Stability and reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Possibility of hazardous reactions: The product is not flammable. No special danger is found.

Conditions to Avoid: Avoid freezing and overheating. Store in a dry and well-ventilated place at the range of 8°C to 50 °C.

Incompatible materials: No special requirement.

Hazardous decomposition products: It may release little CO and SO₂ from thermal decomposition.

11. Toxicological information

Product Toxicity Data:

Ingredient (s)/Product	CAS#	LD₅₀/LC₅₀ (median lethal dose)
Alpha olefin sulfonate	68439-57-6	Acute toxicity (Oral) LD ₅₀ : 2310mg/kg (rat) Data source: IUCLID 2000
Classification of the whole product		Acute toxicity (oral)- Category 5

Skin corrosion/irritation: This product is classified as Category 2. This product contains alpha olefin sulfonate (CAS: 68439-57-6) which is classified as Category 2 (Data source: IUCLID). Considering the percentage of this ingredient exceeds the classification criteria, the whole product is classified as Category 2.

Serious eye damage/eye irritation: This product is classified as Category 2A. This product contains alpha olefin sulfonate (CAS: 68439-57-6) which is classified as Category 2A (Data source: IUCLID). Considering the percentage of this ingredient exceeds the classification criteria, the whole product is classified as Category 2A.

Respiratory /Skin sensitizer: No classification for this product.

Germ cell mutagenicity: No classification for this product.

Carcinogenicity: No classification for this product.

Reproductive Toxicity: No classification for this product.

STOT SE/RE: No classification for this product.

Aspiration hazard: No classification for this product.

Effects on or via lactation: No classification for this product.

Toxicokinetics, metabolism and distribution of information: No relevant information.

Other health hazards: No relevant information.

12. Ecological information

Ecotoxicity:

96h-LC₅₀: 2.5-5 mg/L, fish (Brown trout)

48h-EC₅₀: 4.53 mg/L, crustacean (Ceriodaphnia dubia Water flea)

Data source: HSNO CCID

Classification of the whole product: Acute hazards to the aquatic environment- Category 2

Persistence and Degradability: May quickly degrade.

Bioaccumulative Potential: Not bioaccumulative.

13. Disposal considerations

Chemical Waste: Transport to specialized waste disposal sites for disposal. It must strictly follow local regulations for disposal.

Contaminated packaging: Do not throw away the used containers and wash thoroughly before recycling. The waste water should be treated as to be not hazardous before discharge.

Cautions for disposal:

Do not allow product to reach sewage system.

Do not throw it into any open bodies of water.

14. Transport Information

DOT/ Air-Transportation- IATA/ICAO/Sea-Transportation-IMO/IMDG:

Proper Shipping Name: Not regulated.

Hazard Class: Not classified.

UN Code: Not regulated.

Packing Group: Not classified.

Packing Group Symbol: Not classified.

Marine Pollutant (Yes/No): No

EMS NO.: Not regulated.

Note:

Check whether the package is completed or sealed before transporting; make sure there are no damage and no falling down of packages during transporting; the transport vehicle should be equipped with fire-fighting equipments and emergency facilities for handling with release; do NOT transport this product together with incompatible substances.

15. Regulatory information

Laws and Regulations of China:

General rule for classification and hazard communication of chemicals (GB 13690-2009):

Physical hazards: Not classified.

Health hazards: Acute toxicity (oral)- Category 5

Skin corrosion/irritation-2

Serious eye damage/eye irritation-2A

Environmental hazards: Acute hazards to the aquatic environment- Category 2

The Principle of Classification of Transport Packaging Groups of Dangerous Goods (GB/T 15098-2008):

Not applicable

Dangerous Chemicals List (GB 12268-2012): Not listed.

Dangerous chemicals directory (2015): Not applicable

Production Safety Law of the People's Republic of China: As for safe production and management, emergency handling and legal liability, comply with relevant provisions of this law.

Occupation Disease Prevention Law the People's Republic of China: As for precautions, prevention, management and occupational disease diagnosis, comply with relevant provisions of this law.

The Environment Protection Law of the People's Republic of China: As for the prevention of environment pollution and environment protection, comply with relevant provisions of this law. Do not discharge into the water arbitrarily.

International Laws and Regulations:

Carcinogenicity categories: Not listed by EPA, NTP, ACGIH and IARC.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

16. Other information

DISCLAIMER: Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

References:

GB 16483-2008, GB 13690-2009, GB/T 17519-2013, GB 30000.2-2013~30000.29-2013, GB/T 15098-2008, GB12268-2012, Dangerous chemicals directory (2015), etc.

Full description of some acronyms:

GHS-Globally Harmonized System of Classification and Labelling of Chemicals

CAS-Chemical Abstracts Service

EINECS-European Inventory of Existing Commercial Chemical Substances

ACGIH- American Conference of Governmental Industrial Hygienists

OSHA-Occupational Safety and Health Administration

IARC- International Agency for Research on Cancer

NTP- The National Toxicology Program

IMO-International Maritime Organization

IMDG-International Maritime Dangerous Goods

IATA-International Air Transport Association

ICAO-International Civil Aviation Organization

TSCA-Toxic Substance Control Act

ECHA- European Chemicals Agency

CWA- Clean Water Act

HSDB-Hazardous Substances Data Bank (HSDB)