

Alpha Olefin Sulfonates AOS (RXSOL-67-1980-250)

MATERIAL SAFETY DATA SHEET • SALALAH CHEMICAL, OMAN

1. Product and Company Identification

www.rxmarine.com

Product Name	Alpha Olefin Sulfonates AOS
Part Number	RXSOL-67-1980-250

Company Details:....

RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
VASHI ,NEW BOMBAY 400703 INDIA

Branch : Kandla, Mumbai , Chennai, Vizag, Kolkata, UAE , OMAN , CANADA and KENYA

Phone	+91 22 20871200 - 1400
Fax	+91 22 27612100 ::AOH :0091 9821214367
Email	mail@rxmarine.com
Website	www.rxmraine.com

2. Composition / Information on ingredients

www.rxmarine.com

Component	CAS NO.	Percentage, wt, %
Alpha-Olefin Sulfonate	68439-57-6 38	90~94
Water	7732-18-5	≤2
Alpha-Olefin	1120-36-1	≤5.0
Sodium sulfate	7757-82-6	≤6.0
Sodium chloride	7647-14-5	≤5.0

3. Hazards Identification

www.rxmarine.com

Classification of the substance or mixture

Physical and Chemical Hazards	Not classified.
Eye contact	May cause significant eye irritation.
Skin contact	May cause significant skin irritation especially If exposure is prolonged and/or repeated.
Inhalation	Inhalation of vapors or mists of the product may be irritating to the respiratory system.
Ingestion	Ingestion of large amounts may produce gastrointestinal disturbances including irritation, nausea, and diarrhea.

Label elements

Signal Word	Warning
-------------	---------

Hazard Statements	Harmful if swallowed Causes skin irritation Causes serious eye irritation May cause respiratory irritation
Precautionary Statements	Avoid breathing dust Wash exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear eye protection, protective gloves. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor/physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention.
Supplementary Precautionary Statements	Take off contaminated clothing and wash before reuse. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents/container to comply with local, state and federal regulations. If inhaled: Remove person to fresh air and keep comfortable for breathing.

4. First Aid Measures

www.rxmarine.com

Description of first aid measures

First-aid measures general	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible)
First-aid measures after inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
First-aid measures after skin contact	Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	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.
First-aid measures after ingestion	Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a POISON CENTER or doctor/physician if you feel unwell.

Most important symptoms and effects, both acute and delayed

Potential Adverse human health effects and symptoms	Based on available data, the classification criteria are not met. Harmful if swallowed.
Symptoms/effects after inhalation	May cause respiratory irritation
Symptoms/effects after skin contact	Causes skin irritation
Symptoms/effects after eye contact	Causes serious eye irritation.
Symptoms/effects after ingestion	Swallowing a small quantity of this material will result in serious health hazard

Indication of any immediate medical attention and special treatment needed	Treat Symptomatically.
---	------------------------

5. Fire-fighting Measures

www.rxmarine.com

Extinguishing media

Suitable extinguishing media	Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	Do not use a heavy water stream.
Special hazards arising from the substance or mixture	Fumes containing carbon dioxide, carbon monoxide, Sulphur dioxide may be formed in large fires.
Advice for firefighters	
Special Fire Fighting Procedures	Containers close to fire should be removed immediately or cooled with water.
Protective equipment for fire-fighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

6. Accidental Release Measures

www.rxmarine.com

Personal precautions, protective equipment and emergency procedures

Protective equipment	Gloves. Safety glasses. Equip cleanup crew with proper protection.
Emergency procedures	Evacuate unnecessary personnel. Ventilate area.
Environmental precautions	Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.
Methods and materials for containment and cleaning up	Avoid generation and spreading of dust. Remove spillage with vacuum cleaner. If not possible, collect spillage with shovel, broom or the like. Flush with plenty of water to clean spillage area. Do not let washing down water contaminate ponds or waterways
Reference to other sections	For waste disposal, see section 13.

7. Handling and Storage

www.rxmarine.com

Precautions for safe handling	Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Avoid breathing dust. Use only outdoors or in a wellventilated area.
Hygiene measures	Do not eat, drink or smoke when using this product. Wash exposed skin thoroughly after handling.
Conditions for safe storage, including any incompatibilities	
Storage conditions	Keep container tightly closed.
Incompatible products	Strong oxidizers.
Incompatible materials	Sources of ignition. Generation of airborne dust.
Storage class	Chemical storage

8. Exposure controls and personal protection

www.rxmarine.com

Exposure controls

Process conditions	All chemical Personal Protective Equipment (PPE) should be selected based on an assessment of both the chemical hazard present and the risk of exposure to those hazards. The PPE recommendations below are based on an assessment of the chemical hazards associated with this product. Where this product is used in a mixture with other products or fluids, additional hazards may be created and as such further assessment of risk may be required. The risk of exposure and need of respiratory protection will vary from workplace to workplace and should be assessed by the user in each situation.
Engineering measures	Provide adequate general and local exhaust ventilation.
Respiratory equipment	No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists. Wear mask supplied with: Dust filter P2 (for fine dust).
Hand protection	For prolonged or repeated skin contact use suitable protective gloves. Butyl rubber. Polyvinyl chloride (PVC).
Eye protection	Wear approved safety goggles
Other Protection	Wear appropriate clothing to prevent any possibility of skin contact. Provide eyewash station.

9. Physical and chemical properties

www.rxmarine.com

Water Solubility	Highly soluble
Specific Gravity	1.05
pH Value	7-9
Odor	Slight characteristic odor
Appearance	Light yellow creamy powder
Whiteness(WG)	≥80

10. Stability and reactivity

www.rxmarine.com

Reactivity	Strong oxidizing agents.
Chemical stability	Stable under normal temperature conditions and recommended use.
Possibility of hazardous reactions	Not known.
Conditions to avoid	Extremely high or low temperatures.
Incompatible materials	
Materials To Avoid	Strong oxidizing agents
Hazardous decomposition products	Upon decomposition, this product may yield sulfur dioxide and oxides of sulfur

11. Toxicological information

www.rxmarine.com

Information on toxicological effects

Acute toxicity (Oral)	Harmful if swallowed.
-----------------------	-----------------------

Acute toxicity (dermal)	Not classified
Acute toxicity (inhalation)	Not classified
LD50 oral rat	≥ 2000 mg/kg
ATE US (oral)	≥ 2000 mg/kg body weight
Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/irritation	Causes serious eye irritation.
Respiratory or skin sensitization	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified

12. Ecological information

www.rxmarine.com

Toxicity	LC50 fish 1 ≥ 500 mg/l
Persistence and degradability	This product is highly degradable.
Bio accumulative potential	Bio accumulative potential: No data available on bioaccumulation.
Mobility in soil	Mobility: The product is soluble in water.
Results of PBT and vPvB assessment	This product does not contain any PBT or vPvB substances.
Other adverse effects	Avoid release to the environment.

13. Disposal considerations

www.rxmarine.com

Waste disposal recommendations	Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	Avoid release to the environment.

14. Transport information

www.rxmarine.com

UN number	Not applicable.
UN proper shipping name	Not applicable.
Transport hazard class(es)	Not applicable.
Packaging group	Not applicable.
Environmental hazards	
Environmentally Hazardous Substance/Marine Pollutant	No.
Precautions for user	Not applicable.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.

15. Regulatory information

www.rxmarine.com

The following laws, regulations, rules and standards have made corresponding provisions on the management of the chemical	Workplace Safety Chemicals Regulations Convention on the Safe Use of Chemicals in the Workplace
---	---

16. Other information

www.rxmarine.com

Other Information	The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Rx Marine International has been advised of the possibility of such damages.
-------------------	--

Advice on safe handling	Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.
Advice on protection against fire and explosion	Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.
Hygiene measures	Change contaminated clothing. Wash hands after working with substance. For precautions see section 2.2.
Conditions for safe storage, including any incompatibilities Storage conditions	Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition.
Storage stability	Recommended storage temperature 2 - 8 °C
Storage class	Storage class (TRGS 510): 3: Flammable liquids
Specific end use(s)	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. Exposure controls and personal protection

www.rxmarine.com

Control parameters

Ingredients with workplace control parameters

Exposure controls

Personal protective equipment

Eye/face protection	Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles
Skin protection	Required
Body Protection	Flame retardant antistatic protective clothing.
Respiratory protection	Required when vapours/aerosols are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system. Recommended Filter type: Filter type ABEK The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Control of environmental exposure	Do not let product enter drains. Risk of explosion.
-----------------------------------	---

9. Physical and chemical properties

www.rxmarine.com

Physical state	Liquid
Colour	No data available
Odor	No data available
Melting point/freezing point	Melting point/freezing point: -70 °C at 1.013,25 hPa
Initial boiling point and boiling range	130,5 - 134,5 °C at 1.013 hPa
Flammability (solid, gas)	Flammable aerosol.
Upper/lower flammability or explosive limits	No data available
Flash point	38,5 °C
Autoignition temperature	287 °C at 101,3 h Pa
Decomposition temperature	No data available
pH	No data available
Viscosity	Viscosity, kinematic: 2,469 mm ² /s at 20 °C Viscosity, dynamic: 2,21 mPa.s at 20 °C
Water solubility	No data available
Partition coefficient: n-octanol/water	log Pow: 1 at 20 °C
Vapor pressure	10 - 14 hPa at 34 - 56 °C
Density	0,898 g/cm ³ at 20 °C
Relative density	No data available
Relative vapor density	No data available
Particle characteristics	No data available
Explosive properties	No data available
Oxidizing properties	None
Other safety information	No data available

10. Stability and reactivity

www.rxmarine.com

Reactivity	Vapor/air-mixtures are explosive at intense warming.
Chemical stability	The product is chemically stable under standard ambient conditions (room temperature)
Possibility of hazardous reactions	No data available
Conditions to avoid	Heating.
Incompatible materials	Strong oxidizing agents
Hazardous decomposition products	In the event of fire: see section 5

11. Toxicological information

www.rxmarine.com

Information on toxicological effects

Acute toxicity	LD50 Oral - Rat - male and female - 1.792 mg/kg (OECD Test Guideline 401) LC50 Inhalation - Rat - male and female - 4 h - > 9,59 mg/l (OECD Test Guideline 403) LD50 Dermal - Rat - male and female - > 2.000 mg/kg (Directive 67/548/EEC, Annex V, B.3.)
Skin corrosion/irritation	Skin - Rabbit Result: Causes burns. Remarks: (ECHA)
sensitization	Not available
mutagenicity	Not available
Carcinogenicity	Not available
Reproductive toxicity	Not available
Teratogenicity	Not available
Specific target organ toxicity (single exposure)	Not available.
Specific target organ toxicity (repeated exposure)	Not available.
Aspiration hazard	Not available.
Information on the likely routes of exposure	Not available.

12. Ecological information

www.rxmarine.com

Persistence and degradability	No data available
Toxicity to fish	Static test LC50 - Oncorhynchus mykiss (rainbow trout) - 75 mg/l - 96 h (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates	Static test EC50 - Daphnia magna (Water flea) - 42,81 mg/l - 48 h (OECD Test Guideline 202) Remarks: (in analogy to similar products) The value is given in analogy to the following substances: maleic acid
Toxicity	Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 1.520 mg/l - 96 h
Toxicity to bacteria	EC10 - Bacteria - 14 mg/l - 72 h Remarks: (Lit.) EC5 - E.coli - 15.000 mg/l Remarks: (Lit.) (maximum permissible toxic concentration)
Toxicity to algae	Static test ErC50 - Pseudokirchneriella subcapitata (green algae) - 74,35 mg/l - 72 h (OECD Test Guideline 201) Remarks: (in analogy to similar products) The value is given in analogy to the following substances: maleic acid
Products Biodegradation	The methods for determining the biological degradability are not applicable to inorganic substances.
Mobility in soil	No data available
Results of PBT and vPvB assessment	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Endocrine disrupting properties	No data available
Other adverse effects	No data available .

13. Disposal considerations

www.rxmarine.com

Product	Offer surplus and non-recyclable solutions to a licensed disposal company. Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.
Contaminated packaging	Dispose of as unused product.
Waste treatment Method	See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

14. Transport information

www.rxmarine.com

UN number	ADR/RID:2404	IMDG:2404	IATA: 2404
UN proper shipping name	ADR/RID:PROPIONITRILE	IMDG:PROPIONITRILE	IATA:PROPIONITRILE
Transport hazard class(es)	ADR/RID: 3 (6.1)	IMDG: 3 (6.1)	IATA:3 (6.1)
Packaging group	ADR/RID: II	IMDG: II	IATA:II
Environmental hazards	ADR/RID: No	IMDG: No	IATA: No
Special precautions for user	No data available		
Further information	Not classified as dangerous in the meaning of transport regulations.		

15. Regulatory information

www.rxmarine.com

Safety, health and environmental regulations/legislation specific for the substance or mixture	This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.
Other regulations	Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable. Take note of Dir 94/33/EC on the protection of young people at work.
Chemical Safety Assessment	For this product a chemical safety assessment was not carried out

16. Other information

www.rxmarine.com

Other Information	The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Rx Marine International has been advised of the possibility of such damages. DISCLAIMER OF LIABILITY :The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.
-------------------	--