

## MATERIAL SAFETY DATA SHEET

Document drafted on: 2005-05-04  
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# Rosulfan AOS

### 1. Identification of the substance and of the company

**Product name**

Trade name: Rosulfan AOS

**Application**

Anionic surfactant used as a component of liquid and powder washing, cleaning and cosmetic agents.

**Producer**

**PCC Rokita SA**, ul. Sienkiewicza 4, 56-120 Brzeg Dolny, Poland

**Specialty Chemicals Business Unit**

Telephone: (+4871) 319 24 32 or 319 26 97; Fax: (+4871) 319 28 02 or 319 25 50

**Emergency telephone number:**

Telephone: (+4871) 319 25 55, 319 24 41 or 319 26 90 (fax) at PCC Rokita SA or the closest local Fire Brigade

### 2. Composition / information on ingredients

<b>Chemical name:</b>	Aqueous solution of sulphonic acid sodium salts, mainly tetradecenosulphonic, hexadecenosulphonic, hydroxytetradecanosulphonic and hydroxyhexadecanosulphonic	
<b>Molecular formula:</b>	R-CH <sub>2</sub> -CH=CH-CH <sub>2</sub> SO <sub>3</sub> Na, where R = C <sub>n</sub> H <sub>2n+1</sub> ; n = 10 or 12 (for a basic component)	
<b>Component names:</b>	Sodium salt of sulphonated alpha olefins C14-16 (36-40%)	Water (60-64%)
<b>Hazard symbol:</b>	Xi; R36/38	
<b>Index number:</b>	-	
<b>CAS number(s):</b>	68439-57-6	
<b>EC Number (EINECS):</b>	270-407-8	
<b>Additional information:</b>	INCI name: Sodium C14-16 Olefin Sulfonate	

### 3. Hazards identification

Irritant (Xi).

Irritating to eyes and skin (R 36/38).

### 4. First aid measures

**Inhalation**

Under normal conditions does not emit hazardous fumes.

**Skin contact**

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water.

**Eye contact**

Irrigate copiously with fresh water for at least 15 minutes with eyelids rolled up. Immediately seek ophthalmologist attention.

**Ingestion**

Rinse mouth, do not give anything to drink. Do not induce vomiting (risk of choking because of substance foaming). Immediately seek medical attention.

## 5. Fire fighting measures

### Suitable extinguishing media

Foam, dry powder, carbon-dioxide and water (water spray).

### Extinguishing media which must not be used for safety reasons

Not known.

### Special hazards

In case of fire, sulphur dioxide may be formed. If possible, remove containers from the area exposed to fire or high temperature.

### Special protective equipment for fire-fighters

In case of sulphur dioxide formation, use appropriate protective clothing and respiratory protective equipment.

### Additional information

Non-flammable, flammable after evaporation of water. Sulphur dioxide formed should be absorbed using water spray.

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## 6. Accidental release measures

### Personal precautions

Avoid contact with the substance. Ensure adequate ventilation in closed spaces.

### Environmental precautions

Prevent penetration of large product volumes into drains or sewage systems, ground or surface water and soil. Notify relevant authorities in case of environmental pollution.

### Methods for cleaning / disposal

If possible, eliminate the spill. Contain the spreading of the spill by bunding. Soak up the spill with absorbent material (e.g. earth, sand), collect into a closed container and recycle or neutralize in compliance with the regulations in force (see sec. 13). Wash the contaminated area thoroughly with water.

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## 7. Handling and storage

### Handling

Handle in compliance with general safety and industrial hygiene standards. Prevent access of unauthorised persons.

### Storage

Store in closed containers made of acid resistant steel or other corrosion-resistant material fitted with heating elements and mixers or a circulating pump or store in closed polyolefin containers. Maximum storage temperature of 50°C.

### Specific applications

Substance with broad application.

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## 8. Exposure controls/personal protection

### Exposure control parameters

MAC (TWA): not specified.

### Personal protective equipment:

#### Respiratory protection

Not required in normal use.

#### Eye and face protection

Required – wear tightly fitting safety goggles if there is a risk of direct contact.

#### Hand protection

Required – protective gloves.

**Skin protection**

Required – protective clothing.

**Hygiene measures**

Take off immediately all contaminated clothing. Wash hands and face after use. When using do not eat or drink.

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**9. Physical and chemical properties**

<b>Appearance:</b>	liquid
<b>Colour:</b>	pale yellow to light brown
<b>Odour:</b>	weak, characteristic
<b>pH:</b>	5.5-10.0 (5% active substance aqueous solution)
<b>Temperature</b>	
<b>solidification:</b>	approx. 0 <sup>0</sup> C
<b>boiling:</b>	above 100 <sup>0</sup> C
<b>flash-point:</b>	not applicable
<b>self-ignition:</b>	not applicable
<b>Flammability:</b>	non-flammable, flammable after evaporation of water
<b>Explosive properties</b>	
<b>upper and lower explosion limit:</b>	not applicable
<b>Oxidizing properties:</b>	not present
<b>Vapour pressure:</b>	approx. 2.4 kPa at 20 <sup>0</sup> C for a solvent
<b>Relative density:</b>	approx. 1.06 g/cm <sup>3</sup> at 20 <sup>0</sup> C
<b>Solubility</b>	
<b>in water:</b>	complete
<b>in organic solvents:</b>	low aliphatic alcohols
<b>Partition coefficient: n-octanol/water:</b>	no data available
<b>Other properties:</b>	viscosity at 20 <sup>0</sup> C: approx. 200 mPa·s

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**10. Stability and reactivity**

<b>Stability</b>	Product stable under normal conditions
<b>Conditions to avoid</b>	Do not heat above 50 <sup>0</sup> C; during storage avoid temperatures outside the range specified in sec. 7
<b>Materials to avoid</b>	Copper and its alloys may cause colouring of the product
<b>Hazardous decomposition products</b>	Decomposition causes sulphur dioxide formation
<b>Additional information</b>	No risk of hazardous exothermic reaction

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**11. Toxicological information**

<b>Acute oral toxicity</b>	LD <sub>50</sub> (rat) of 4,443 mg/kg
<b>Inhalation toxicity</b>	Under normal conditions does not emit hazardous fumes
<b>Skin contact</b>	Has slightly irritating and skin degreasing effect
<b>Eye contact</b>	Causes irritation
<b>Ingestion</b>	Irritation of oral mucosa, pharynx, oesophagus and digestive system mucous membranes
<b>Additional information</b>	Other hazardous properties can not be ruled out

## 12. Ecological information

### Ecotoxicity

Toxicity to aquatic organisms      LC<sub>50</sub> (96h) 2.5-5 mg/l (trout)  
CE<sub>50</sub> 5-50 mg/l (daphnia)  
CI<sub>50</sub> 10-100 mg/l (algae)

### Mobility

After dissolving in water may penetrate to groundwater

### Persistence and degradability

Persistence      Biodegradation potential of 98.2%, specified in compliance with 82/243/EEC

Degradability      Ultimate aerobic biodegradation specified using the closed bottle method as per Directive 67/548/EEC, Annex V.C.4-E equals 93.0%

### Bioaccumulation potential

No data available

### Other adverse effects

Inhibition of sewage bacteria growth has not been observed

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## 13. Disposal Considerations

### Product

Do not dispose of to drains or sewage system. Prevent penetration into ground or surface water. Do not landfill inert waste. Waste product should be recycled or neutralized in compliance with the regulations in force (Waste Act) in facilities or equipment that meet relevant requirements (authorized plants or producer).

### Packaging

Empty packaging should be treated as hazardous waste. Packaging can be re-used if thoroughly washed with water or treated using an equivalent cleaning procedure. Best results are obtained by washing immediately after emptying the packaging. Recycling or neutralization of the packaging should comply with the regulations in force (Packaging and Packaging Waste Act).

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## 14. Transport information

### Road transport ADR/RID

Limitations resulting from ADR and RID regulations do not apply

### Sea transport IMDG

Limitations resulting from IMDG regulations do not apply

### Air transport ICAO-TI and IATA-DGR

No data available

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## 15. Regulatory information

This Material Safety Data Sheet has been drafted in compliance with the Act on Chemical Substances and Preparations of 11 January 2001 (*Official Journal* Dziennik Ustaw 2001, No. 11, item 84), as amended.

Template for the Material Safety Data Sheet has been taken from the Regulation of the Minister of Health on Safety Data Sheets for Hazardous Substances and Preparations of 3 July 2002 (*Official Journal* Dziennik Ustaw 2002, No. 140, item 1171) as amended.

Additional regulations:

**Packaging labelling** – as per the Regulation of the Minister of Health on Hazardous Substance and Preparation Labelling of 2 September 2003 (*Official Journal* Dziennik Ustaw 2003, No. 173, item 1679), as amended.



Irritant (Xi)

**R-phrases**

R 36/38 Irritating to eyes and skin

**S-phrases**

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S 28 After contact with skin, wash immediately with plenty of water

S 37/39 Wear suitable gloves and eye/face protection

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**16. Other information****List of R-phrases** R 36/38 Irritating to eyes and skin**Training required** Customers applying Rosulfan AOS should carefully read this Material Safety Data Sheet**Recommended application restrictions** Not known**Further information can be obtained from** Producer**Source of information** Own research and Internet databases**Modifications in the sheet** Section 12 (degradability)**Additional information** Information given herein refers solely to the technical product and ceases to be valid after its processing

MSDS version: 2

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Information presented herein is given based on our most contemporary knowledge and it describes the product in terms of health care, environment protection and safe handling requirements. It shall not be understood as a guarantee of specific properties of the product.