



## SAFETY DATA SHEET

# EVAPORATOR SCALE CONTROLLER

Issued: 04/01/2008

Revision No: 1

### 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product name: EVAPORATOR SCALE CONTROLLER  
CAS number: 20596-85-2  
Synonyms: ATMP  
NITRILOTRIS(METHYLENE)PHOSPHONATE SODIUM SALT  
Use of substance / preparation: Antiscalant for the protection of Reverse Osmosis membranes.  
Company name: Aquamarine Chemicals Ltd  
2 Duddage Manor Business Park  
Brockridge Road, Twyning  
Glos.  
GL20 6BY  
Tel: 01684 290077  
Fax: 01684 290608

### 2. HAZARDS IDENTIFICATION

Main hazards: Not hazardous when normal industrial health and safety practises are observed.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Contains: Sodium salt of phosphonic acid antiscalant 20%  
Balance: Water

### 4. FIRST AID MEASURES (SYMPTOMS)

Skin contact: No symptoms.  
Eye contact: No symptoms.  
Ingestion: No immediate symptoms.  
Inhalation: No immediate symptoms.

### 4. FIRST AID MEASURES (ACTION)

Skin contact: Immediately wash with soap and water.  
Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.  
Ingestion: If conscious, give half a litre of water to drink immediately. Consult a doctor.  
Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

### 5. FIRE-FIGHTING MEASURES

Extinguishing media: Dry chemical powder. Carbon dioxide. Water spray. Alcohol or Polymer foam.  
Exposure hazards: In combustion emits toxic fumes.  
Protection of fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.



## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid.
Environmental precautions:	Do not discharge into drains or rivers. Contain the spillage using bunding.
Clean-up procedures:	Absorb into dry earth or sand. Transfer to a closable, labelled Salvage container for disposal by an appropriate method. Wash the spillage site with large amounts of water.

## 7. HANDLING AND STORAGE

Handling requirements:	Ensure there is sufficient ventilation of the area. Avoid direct contact with the substance.
Storage conditions:	Store in cool, well ventilated area. Keep container tightly closed.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures:	Ensure there is sufficient ventilation of the area.
Respiratory protection:	Self-contained breathing apparatus must be available in case of emergency.
Hand protection:	Protective gloves.
Eye protection:	Safety goggles.
Skin protection:	Protective clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

State:	Liquid
Colour:	Clear to pale yellow
Odour:	Perceptible odour
Oxidising:	Non-oxidising (by EC criteria)
Solubility in water:	Soluble
Viscosity:	Viscous
Viscosity value:	17.4
Viscosity test method:	Kinematic viscosity in 10 <sup>-6</sup> m <sup>2</sup> /s at 40°C (ISO 3104/3105)
Melting point/range°C:	-16
Relative density:	1.36 - 1.40
pH:	10-11

## 10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Materials to avoid:	Strong oxidising agents.
Haz. decomp. products:	In combustion emits toxic fumes of nitrogen oxides. In combustion emits toxic fumes of carbon dioxide / carbon monoxide. In combustion emits phosphines.

## 11. TOXICOLOGICAL INFORMATION

Acute toxicity:	EVAPORATOR SCALE CONTROLLER ORL RAT LD50 >17800 mg/kg SKN RBT LD50 >15800 mg/kg
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Routes of exposure: Eye irritation - rabbit, Slight 24hr. Skin irritation - rabbit, non irritating 24hr

## 12. ECOLOGICAL INFORMATION

Ecotoxicity: EVAPORATOR SCALE CONTROLLER  
Toxicity ALGAE 96H EC50 20 mg/l  
Toxicity DAPHNIA 48H EC50 297 mg/l  
Toxicity FISH 96H LC50 >330 mg/l

Persistence and degradability: Biodegradable. Modified SCAS 90% Closed Bottle OECD 301D 20% 30d

## 13. DISPOSAL CONSIDERATIONS

Disposal of packaging: Containers must be disposed of in a safe way.  
NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

## 14. TRANSPORT INFORMATION

ADR / RID  
IMDG / IMO  
IATA / ICAO

## 15. REGULATORY INFORMATION

Hazard symbols: No significant hazard.  
Risk phrases: Not hazardous when normal industrial health and safety practises are observed.

Safety phrases: S24/25: Avoid contact with skin and eyes.  
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S36/37: Wear suitable protective clothing and gloves.  
S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

## 16. OTHER INFORMATION

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.