

**Section 1: Identification of the substance/mixture and of the company/undertaking**

**1.1. Product identifier**

**Product name:** WTP RO 411

**CAS number:** 20596-85-2

**EINECS number:** 243-900-0

**Synonyms:** NITRILOTRIS(METHYLENE)PHOSPHONATE SODIUM SALT  
SODIUM AMINO-TRIS(METHYLENESULPHONATE)  
AMINOTRIMETHYLENEPHOSPHONIC ACID SODIUM SALT; ATMP-4NA

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

**Use of substance / mixture:** Antiscalant for the protection of Reverse Osmosis membranes.

**1.3. Details of the supplier of the safety data sheet**

**Company name:** Water Treatment Products Ltd  
Unit 1, Gilchrist Thomas Industrial Estate  
Blaenavon  
Pontypool  
Torfaen  
NP4 9RL

**Tel:** 01495 792790

**Fax:** 01495 792090

**Email:** sales@watertreatmentproducts.co.uk

**1.4. Emergency telephone number**

**Emergency tel:** 01495 792790

(office hours only)

**Section 2: Hazards identification**

**2.1. Classification of the substance or mixture**

**Classification under CHIP:** -:

**Most important adverse effects:** Not hazardous when normal industrial health and safety practises are observed.

**Classification under CLP:** This product has no classification under CLP.

**2.2. Label elements**

**Label elements under CLP:**

**Precautionary statements:** P262: Do not get in eyes, on skin, or on clothing.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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## Label elements under CHIP:

**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).

## 2.3. Other hazards

**PBT:** This substance is not identified as a PBT substance.

## Section 3: Composition/information on ingredients

### 3.2. Mixtures

#### Non-hazardous ingredients:

NITRILOTRIS(METHYLENE)PHOSPHONATE SODIUM SALT

EINECS	CAS	CHIP Classification	CLP Classification	Percent
-	94021-23-5	-	-	30-50%

## Section 4: First aid measures

### 4.1. Description of first aid measures

**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.

### 4.2. Most important symptoms and effects, both acute and delayed

**Skin contact:** No symptoms.

**Eye contact:** No symptoms.

**Ingestion:** No immediate symptoms.

**Inhalation:** No immediate symptoms.

### 4.3. Indication of any immediate medical attention and special treatment needed

**Immediate / special treatment:** Not applicable.

## Section 5: Fire-fighting measures

### 5.1. Extinguishing media

**Extinguishing media:** Dry chemical powder. Carbon dioxide. Water spray. Alcohol or polymer foam.

[cont...]

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## 5.2. Special hazards arising from the substance or mixture

**Exposure hazards:** In combustion emits toxic fumes.

## 5.3. Advice for fire-fighters

**Advice for fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

## Section 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**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.

### 6.2. Environmental precautions

**Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding.

### 6.3. Methods and material for containment and cleaning up

**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.

### 6.4. Reference to other sections

**Reference to other sections:** Refer to section 8 of SDS.

## Section 7: Handling and storage

### 7.1. Precautions for safe handling

**Handling requirements:** Ensure there is sufficient ventilation of the area. Avoid direct contact with the substance.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage conditions:** Store in cool, well ventilated area. Keep container tightly closed.

### 7.3. Specific end use(s)

**Specific end use(s):** No data available.

## Section 8: Exposure controls/personal protection

### 8.1. Control parameters

**Workplace exposure limits:** Not applicable.

### 8.2. Exposure controls

**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.

[cont...]

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## Section 9: Physical and chemical properties

### 9.1. Information on basic 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

**Kinematic visc. 40°C (mm<sup>2</sup>/s):** 17.4

**Viscosity test method:** Kinematic viscosity in 10-6 m<sup>2</sup>/s at 40°C (ISO 3104/3105)

**Boiling point/range°C:** >35

**Melting point/range°C:** -16

**Flash point°C:** >93

**Relative density:** 1.30 - 1.34

**pH:** 10-11

### 9.2. Other information

## Section 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity:** Stable under recommended transport or storage conditions.

### 10.2. Chemical stability

**Chemical stability:** Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

**Hazardous reactions:** Hazardous reactions will not occur under normal transport or storage conditions.  
Decomposition may occur on exposure to conditions or materials listed below.

### 10.4. Conditions to avoid

### 10.5. Incompatible materials

**Materials to avoid:** Strong oxidising agents.

### 10.6. Hazardous decomposition products

**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.

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

#### Toxicity values:

Route	Species	Test	Value	Units
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[cont...]

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ORL	RAT	LD50	>17800	mg/kg
SKN	RBT	LD50	>15800	mg/kg

## Symptoms / routes of exposure

**Skin contact:** No symptoms.

**Eye contact:** No symptoms.

**Ingestion:** No immediate symptoms.

**Inhalation:** No immediate symptoms.

## Section 12: Ecological information

### 12.1. Toxicity

#### Ecotoxicity values:

Species	Test	Value	Units
ALGAE	96H EC50	20	mg/l
DAPHNIA	48H EC50	297	mg/l
FISH	96H LC50	>330	mg/l

### 12.2. Persistence and degradability

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

### 12.3. Bioaccumulative potential

### 12.4. Mobility in soil

### 12.5. Results of PBT and vPvB assessment

**PBT identification:** This substance is not identified as a PBT substance.

### 12.6. Other adverse effects

## Section 13: Disposal considerations

### 13.1. Waste treatment methods

**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.

## Section 14: Transport information

**Transport class:** This product is not classified for transport.

## Section 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

[cont...]

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### 15.2. Chemical Safety Assessment

**Chemical safety assessment:** A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

### Section 16: Other information

#### Other information

**Other information:** This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

\* indicates text in the SDS which has changed since the last revision.

Informatie m.b.t. Wet verontreiniging oppervlaktewateren: ABM indeling 9B

**Phrases used in s.2 and 3:** Not hazardous when normal industrial health and safety practises are observed.

**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.