

## PRODUCT DATA SHEET

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**PRODUCT NAME: RTW-301**  
**TYPE: Dispersant & Antiscalant, Antifoulant**  
For Reverse Osmosis Systems

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### PRODUCT DESCRIPTION

RTW-301a high-performance, broad-spectrum antiscalant formulated to prevent inorganic scale formation in membrane separation systems.

- Effectively controls calcium carbonate scaling, withstanding a Calcium Carbonate Nucleation Index (CCNI) of up to 2.2
  - Inhibits the formation of calcium sulfate, calcium fluoride, barium sulfate, strontium sulfate, and silica scales
  - Stabilizes metal ions to prevent precipitation of metal oxides and disperses existing deposits of metal oxides, hydroxides, silt, and clay
  - Environmentally friendly, ideal for applications where waste discharge regulations are stringent
- RTW-301 does not contain wetting agents nor strong complexing agents such as NTA or EDTA (which can cause corrosion).

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### KEY BENEFITS

- **Highly effective scale inhibition** for reliable system protection
- **Excellent hydrolytic stability** ensuring long-term performance
- **Fully miscible in water**, allowing easy dosing and uniform distribution
- **Reduces acid-induced corrosion**, protecting system components
- **Simple and accurate monitoring** even at low dosages
- **Compatible with all membrane types**, safeguarding filtration performance
- **Crystal growth modifier** that controls scale morphology
- **Promotes deflocculation and dispersion** to prevent deposits
- **Low impurities and by-products**, minimizing side effects
- **Cost-effective solution** with superior performance
- **Environmentally friendly** and suitable for potable water applications

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### APPLICATIONS

RTW-301 is widely used in:

- **Reverse Osmosis (RO) plants** for drinking water production
- **Water re-use system**
- **Seawater System**

### DOSAGE GUIDELINES:

- Brackish water RO systems: 2–5 ppm continuous feed
- Seawater RO systems: 1–4 ppm continuous feed

Dosage should be optimized based on system parameters such as temperature, water hardness, chloride levels, iron, manganese content, and overall operating conditions.

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### STORAGE & SAFETY

Store in a cool, dry place, avoid direct sunlight, avoid contact with skin, eyes, and clothing. Use appropriate personal protective equipment.

### PACKAGING

Polyethylene drums of 25 or 220 liters, containers of 1000 liters.