

Technical Data Sheet (TDS)

Product Name: Membrane System Corrosion and Scale Inhibitor

Product Code: CSI-0727

Revision Date: 2025-03-15

1. Product Description

This product is a high-performance anti-scalant and corrosion inhibitor designed for membrane systems. It effectively prevents the formation of inorganic scales such as calcium carbonate, calcium sulfate, barium sulfate, and silica, and also protects metal components from corrosion. The formulation is compatible with most major membrane brands, contains no phosphate, and does not promote biofouling. It enhances membrane life and system efficiency while being environmentally safe.

2. Application

Specifically developed for membrane separation systems such as reverse osmosis (RO), nano-filtration (NF), and ultra-filtration (UF). This product provides efficient scale and corrosion inhibition while maintaining membrane performance and longevity.

3. Product Features

- Highly effective in preventing scaling from calcium, barium, strontium, iron, and silica
- Compatible with polyamide and cellulose acetate membranes
- Phosphate-free, minimizes biofouling risk
- Excellent corrosion protection for metal system components
- Stable over a wide range of pH and temperatures
- Extends membrane lifespan and reduces cleaning frequency
- Environmentally friendly and safe for disposal

4. Typical Properties

Property	Value
Appearance	Transparent liquid
pH (1% solution)	1.5 - 2.5
Density (20°C)	1.03 - 1.50 g/cm ³
Solubility	Fully soluble in water

Note: The above data are typical values and not product specifications.

5. Usage & Dosage

Typical dosage: 2-6 ppm depending on water chemistry and membrane type. Dosage should be optimized based on system operating conditions and water analysis. Please consult our technical support team for tailored recommendations.

6. Packaging

- 25 kg / 200 kg plastic drums / 1000L IBC Tote
- Customized packaging available upon request

7. Storage & Handling

- Store in a cool, dry, and well-ventilated area
- Avoid direct sunlight and freezing
- Shelf life: 12 months in original unopened packaging

8. Safety & Environmental Information

- Non-toxic and phosphate-free formulation
- Handle with standard industrial safety precautions
- Refer to Safety Data Sheet - SDS for full safety and handling information

9. Compliance

Complies with international membrane manufacturer guidelines and local environmental regulations.

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