Technical Data Sheet (TDS)

Product Name: Phosphorus-Free Corrosion and Scale Inhibitor

Product Code: CSI-0770

Revision Date: 2025-03-15

1. Product Description

This phosphorus-free corrosion and scale inhibitor is designed for industrial cooling water and recirculating systems. The product effectively prevents corrosion and scale formation without using phosphorus-based components, meeting strict environmental regulations and ensuring long-term system stability.

2. Application

Industrial Cooling Water / Circulation Water Systems

3. Product Features

- Phosphorus-free, environmentally friendly formula
- Excellent corrosion inhibition for steel, copper, aluminum and other metals
- Effective scale prevention under various water conditions
- Compatible with most water treatment chemicals
- Helps maintain heat exchange efficiency
- Reduces system maintenance and downtime
- Complies with environmental discharge standards

4. Typical Properties

Property	Value
Appearance	Clear to dark yellow liquid
pH (1% solution)	2.0 – 3.0
Density (20°C)	1.10 – 1.25 g/cm^3
Solubility	Completely soluble in water

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

5. Usage & Dosage

Typical dosage: 50 – 150 ppm depending on system conditions, dosage should be adjusted according to water quality, system design, and operating conditions. Please consult our technical team for specific application recommendations.

6. Packaging

• 25 kg / 200 kg plastic drums / 1000 kg IBC tank
• 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, phosphorus-free formulation
• Handle with standard industrial safety precautions
• Refer to Safety Data Sheet - SDS for full safety and handling information.

9. Compliance

Complies with relevant local and international environmental regulations.