

SafeGuard™ H2O In-situ Reagent Generation Technology



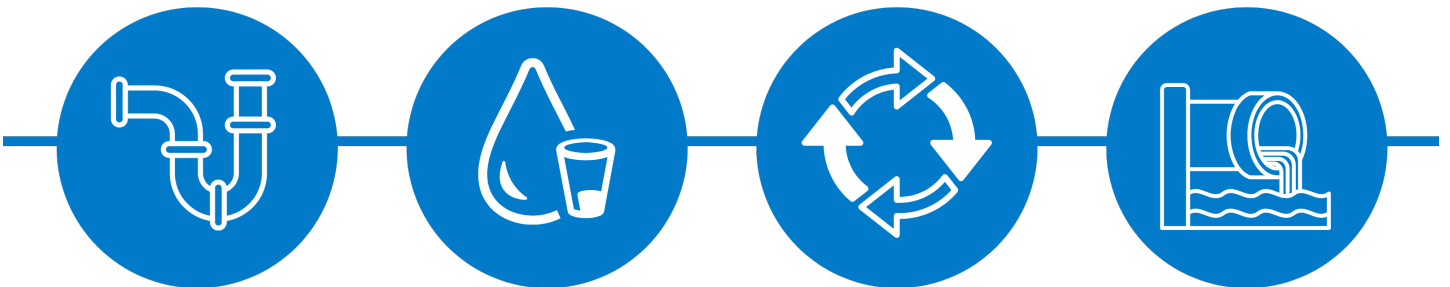
SafeGuard™ H2O is an advanced intelligent treatment solution that is driving down the lifetime costs of ownership and GHG emissions of water treatment. This NSF-approved technology provides significant cost savings and a rapid ROI for facilities seeking reliable treatment for a wide range of applications.

**CORROSION
CONTROL**

**DRINKING
WATER**

**RESOURCE
RECOVERY**

**WASTE
WATER**



The SafeGuard™ H2O in-situ generation reagent technology displaces traditional treatment technologies such as Ion Exchange and Reverse Osmosis, and replaces bulk chemicals including ferric chloride, ferric sulfate, orthophosphates, organosulfides, ozone, alum and more.

The Value of SafeGuard™ H2O

The fully automated SafeGuard™ H2O technology uses a certified precursor and an in-situ electrolytic generator to create a non-toxic reagent onsite and on demand. The process is simple, effective and sustainable. SafeGuard™ H2O features automatic dosing and incorporates proprietary continuous, real-time monitoring of contaminant levels at the influent and effluent to ensure optimal treatment and compliance with regulatory and operational targets 24/7/365.

- Fully automated system for complete process control and remote performance management
- Certified precursor ensures the quality of the reagent generated in-situ
- Safe system that uses and produces non-toxic waste streams with low process water loss
- Significantly reduces a facility’s need to transport, deliver and handle toxic bulk chemicals
- Compact modular system design that easily scales and integrates into existing infrastructure
- Energy efficient system with low power consumption that also optimizes electrical power load balancing
- System is powered by renewable energy sources



Market	Application	Arsenic	Chromium (VI)	Iron/Manganese	Lead/Copper	Mercury	Selenium	Cadmium	Iron/Copper	Hydrogen Sulfide	Phosphate	TOC	Germicide
Cooling & Heating Systems	Anti Corrosion								•				•
Municipal	Groundwater sources	•	•	•		•				•	•		
	Surface water sources											•	
	Wastewater									•	•		
Residential	Anti Corrosion				•								•
Industry & Energy	Process Effluent	•	•			•	•			•		•	
Mineral Mining	Leaching & Byproducts	•	•	•	•	•	•						
Semi Conductor	Process Effluent	•			•								•
Photovoltaics	Process Effluent	•					•	•					

Table 1. SafeGuard™ H2O Global Applications

• Resource Recovery



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