

BIOXIDE-AQ® Solution for Odor and Corrosion Control

BIOXIDE-AQ® solution is an improvement on our patented solution which controls odors and corrosion caused by hydrogen sulfide and other compounds in wastewater systems. AQUIT® solution has been added to renowned BIOXIDE® solution to form a powerful hydrogen sulfide removal and prevention system.

BIOXIDE-AQ® solution has proven effective treatment in many types of wastewater facilities, in widely varying flows, and in any kind of weather. Many different levels of industrial discharge and compounds may be treated also. It is safe to handle, and effective dosage will prevent atmospheric hydrogen sulfide from reaching toxic levels.

Typical Application

- Gravity mains
- Force mains
- Lift stations/wetwells
- Solids processing
- Ponds and lagoons

Proper application of the BIOXIDE® solution to sludge or wastewater stream, has shown that it cost effectively provides for a population of beneficial bacteria which oxidize dissolved sulfide and other reduced sulfur compounds as part of their metabolism. Use of the BIOXIDE-AQ® solution will also cost effectively prevent formation of hydrogen sulfide in the slime layer or deep into solids build up by inhibiting sulfate respiration in bacteria found there.

By treating the hydrogen sulfide both in flow and solids of the wastewater stream, the process prevents release of hydrogen sulfide into the air, reducing odors and corrosion.

Typical Feed Requirements

Treatment is typically dosed into a collection system upstream from the problem facility. From a few selected points, the combined removal and prevention benefits will spread throughout the collection system, at a lower overall cost previously possible. The process has been documented to reduce pretreatment dissolved hydrogen sulfide levels from 50 ppm to <0.1 ppm in numerous wastewater collection force mains, wet wells and gravity interceptors. Similar results have been achieved with BIOXIDE-AQ® solution in sludge lagoons and storage tanks. Due to the biochemical nature of the process, complete sulfide removal and prevention is extremely cost effective in applications where extended detention times produce septic conditions.

For additional treatment information, including dosage specific to your application, please contact your Siemens Water Technologies representative.

Typical Physical Properties	
Description	Aqueous solution/ dispersion of stable compounds for biological enhancement
H ₂ S Dosage Requirement	0.7 gallon/lb. Dissolved H ₂ S removal/prevented
Weight/Gallon	11.8-12.2 lbs./gallon
pH	4-6
Freezing Point	5° F
Color	Turbid Tan
Viscosity	Equivalent to Water
CERCLA Listing	Contains no CERCLA reportable quantities of any hazardous substances. BIOXIDE-AQ® solution is exempt from Federal DOT placard requirements.
Equipment Requirements	Compatible with BIOXIDE® solution feed systems

Typical properties are listed for information only, and are not to be considered as specification requirements. These items are not analyzed on a routine basis.



Siemens Water Technologies North America Service Network

Storage and Handling

BIOXIDE-AQ® solution is environmentally safe. It contains no hazardous substances as defined by the CERCLA list of reportable quantities and the OSHA Hazard Communication Standard (29 CFR 1910.1200). The active ingredients are nitrate salts and anthraquinone, both of which are stable, safe compounds found in nature. These compounds were selected as the active ingredients for BIOXIDE-AQ® because they specifically interact with naturally occurring bacteria to remove and prevent dissolved sulfide, resulting in an effective, safe and cost efficient product.

Packaging

BIOXIDE-AQ® solution is normally shipped in 3800 gallon tanker loads. For further information, please contact your Siemens Water Technologies representative. For reorders and customer service, call 1.800.345.3982.

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