



ODOPHOS® IRON SALT SOLUTION FOR ODOR AND CORROSION CONTROL

ODOPHOS® Iron Salt Solution is a ferrous sulfate solution that is proven to be efficient in controlling dissolved hydrogen sulfide in wastewater collection systems to <0.5 mg/L levels. ODOPHOS solution binds the hydrogen sulfide in a precipitation reaction that forms ferrous sulfide, which prevents the formation of hydrogen sulfide gas.

Reduction of the level of hydrogen sulfide entering the atmosphere arrests the formation of corrosion in the collection system and the treatment plant.

In addition, ODOPHOS iron salt solution effectively aids in phosphorous and solids removal in wastewater treatment facilities.

TYPICAL PHYSICAL PROPERTIES

Specific gravity	1.17 (9.76 lb/gal)
Crystallization Point	41-47°F (5-8°C)
pH	1.0 - 2.5
Color	Green to brown
Soluble Ferrous Iron	5% (0.5 lb/gal)
Insolubles	<0.5%
Free Acid as H ₂ SO ₄	<0.8%
Trace Elements	<0.02%
Total Arsenic	<1.5 mg/L
Total Cadmium	<1.5 mg/L
Total Chromium	<45 mg/L
Total Copper	<35 mg/L
Total Lead	<15 mg/L
Total Nickel	<35 mg/L
Total Selenium	<1.5 mg/L
Total Zinc	<75 mg/L
Total Mercury	<0.05 mg/L

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.

Typical Applications

- Lift stations/wetwells
- Gravity mains
- Force mains/Pressure mains
- Wastewater treatment plants
- Solids processing
- Ponds to lagoons

Typical Feed Requirements

ODOPHOS® solution can be added directly to the collection system creating the odors and is generally applied using standard designed feed systems. Dose rates will vary with the application.

Typically application rates are 1.65 pounds Fe²⁺ per pound of sulfide or 3.3 gallons of ODOPHOS solution per pound of sulfide.

For additional treatment information, including hydrogen sulfide testing and dosage specific to your application, please contact your Evoqua Water Technologies representative.

Chemical Storage and Feed Packages

Evoqua Water Technologies offers chemical storage and feed packages tailored to the odor control program. These systems can range from simple, single pump configurations to fully automated, dose-to-demand systems utilizing our VersaDose® controller. Advanced control may provide cost savings in dosage and improved performance.

Storage and Handling

ODOPHOS solution is an irritant. Do not get in eyes, or on skin, or clothing. Do not taste or swallow. Do not handle with bare hands. Use only thoroughly clean, dry utensils when handling. Avoid breathing fumes.

Can be stored outdoors in ambient conditions. Follow all local, state and federal regulations for storage. Do not dump on the ground or release into any body of water. All disposal methods must be in compliance with all Federal, State, Local and Provincial laws, and regulations. Regulations may vary in different locations.

Suitable handling materials include fiberglass, plastics (e.g., HDXLPE, PVC, PE, PP) rubber and 316 stainless steel.

See Material Safety Data Sheet for additional safety and handling information.

Packaging

ODOPHOS solution is normally shipped in 4,700 gallon bulk tanker loads. Mini bulk deliveries (<2,000 gallons) are available in many parts of the country. For further information, please contact your Evoqua Water Technologies representative. For reorders and customer service, call 1.800.345.3982.



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