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Liquid Ferrous Sulfate: pH>4.0

Product Data Sheet

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Description

Pencco's Ferrous Sulfate is a clear-green, aqueous solution containing soluble ferrous iron. Ferrous Sulfate is a high quality product manufactured to strict specifications. Pencco uses a proprietary manufacturing process that results in a superior liquid iron product by the reaction of sulfuric acid and high quality metallic iron. This enhanced product is made to stringent standards to give worry free storage and less impact on alkalinity reduction when fed into the system.

Application

Ferrous Sulfate is applied to wastewater collection systems, lift stations, headworks and internal plant processes for multiple purposes, such as odor and corrosion control. Specifically, Ferrous Sulfate aids in H₂S control, phosphorus removal, TSS reduction, sludge conditioning, and other benefits.

Typical Analysis

Concentration (%Fe ⁺²).....	5%
Specific Gravity.....	1.15; 9.6 lbs./gal
Free Acid.....	nil
pH.....	≥4.0
Appearance.....	Clear-Green to Aqua

Health and Safety

Ferrous Sulfate can cause irritation and burns to the skin and eyes. Ensure that individuals handling Ferrous Sulfate have been fully trained regarding the MSDS, along with PPE requirements and specific operational procedures. In the event of an emergency, call 24 hr. CHEMTREC: 800-424-9300.

Certifications

Ferrous Sulfate meets or exceeds all AWWA standards.

Product Handling and Shipping

Ferrous Sulfate is shipped in railcars, tank trucks, totes, and drums. Suitable materials of construction include fiberglass, PVC, polypropylene, polyethylene, and stainless steel. No dilution or preparation necessary.

DOT Classification: Environmentally Hazardous Substance, Liquid, N.O.S. (Contains Ferrous Sulfate)
 Hazard Class: 9 DOT ID Number: UN 3082 Packing Group: III
 RQ = 1000 Lbs.

Dosage Guidelines

Removal of 1 lb. H₂S requires 4.5 lbs. of Ferrous Sulfate (1.6 lbs. as Fe or 8.0 lbs. as FeSO₄· 7H₂O)
 Removal of 1 lb. H₂S requires 3.2 gallons of Ferrous Sulfate solution (5% Fe)
 For odor control, complete removal of H₂S from a wastewater stream is usually unnecessary. Typically, removal of 40-50% of H₂S will give excellent results.

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