Liquid Ferrous Sulfate: pH>2.0
Product Data Sheet
Revision Date: 3/5/13

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’s manufacturing process results in a superior liquid iron product by the reaction of sulfuric acid and high quality metallic iron.

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 H{sub}2{sub}S control, phosphorus removal, TSS reduction, sludge conditioning, and other benefits.

Typical Analysis
Concentration (%Fe{sup 2+}) ................................................................. 5%
Specific Gravity .............................................................................. 1.15; 9.6 lbs./gal
Free Acid ....................................................................................... nil
pH ................................................................................................. ≥2.0
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. H{sub}2{sub}S requires 4.5 lbs. of Ferrous Sulfate (1.6 lbs. as Fe or 8.0 lbs. as FeSO{sub}4· 7H{sub}2{sub}O)
Removal of 1 lb. H{sub}2{sub}S requires 3.2 gallons of Ferrous Sulfate solution (5% Fe)
For odor control, complete removal of H{sub}2{sub}S from a wastewater stream is usually unnecessary. Typically, removal of 40-50% of H{sub}2{sub}S will give excellent results.