



## LIQUID FERROUS SULFATE

Liquid Ferrous Sulfate is a solution of ferrous sulfate heptahydrate dissolved in water. It is a blue-green solution which is used primarily for waste water treatment. Concentrations are typically prepared according to customer's requirements, and the concentrations of the ferrous sulfate solutions are normally reported as percent iron (weight/weight) or as percent ferrous sulfate heptahydrate (weight/weight).

**ODOR/CORROSION CONTROL:** Ferrous sulfate is the most cost-effective method of controlling odors and corrosion from hydrogen sulfide liquid/gas, and ammonia gas. Treat at 1.62 lbs. iron per 1 lb. hydrogen sulfide in solution. (8 lbs. FSH) This is approximately 3 gallons of liquid (5%) iron sulfate.

**HEXAVALENT CHROMIUM REDUCTION:** Ferrous sulfate is a safe and effective method of reducing dangerous hexavalent chromium to trivalent.

**PHOSPHATE REMOVAL/CLARIFICATION:** During aeration, ferrous sulfate can easily reduce phosphate levels to meet regulations. It also increases the size of the floc particles for faster settling, and is not pH sensitive. It eliminates carry over of aluminum.

### TYPICAL ANALYSIS

FeS04*7H20	weight/weight	25-40%
Iron, Ferrous (Fe <sup>+2</sup> )	weight/weight	5-8%
Water		balance
pH		2-3
Specific Gravity		1.16-1.26
Density (lbs./gal)		9.6 - 10.5

### TYPICAL HEAVY METALS (MG/L)

Arsenic	<0.2	Copper	<10.0
Cadmium	<1.0	Mercury	<0.1
Chromium	<20.0	Nickel	<50.0
Lead	<1.0	Zinc	<25.0

Shipping requirements may vary to prevent crystallization of the product, due to seasonal temperature changes and concentrations of the product. Consult Crown Technology, Inc. for additional information. **NO WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS MADE, AND WE ASSUME NO LEGAL RESPONSIBILITY.**

