



# Liquid Ferric Sulfate PRODUCT PROFILE

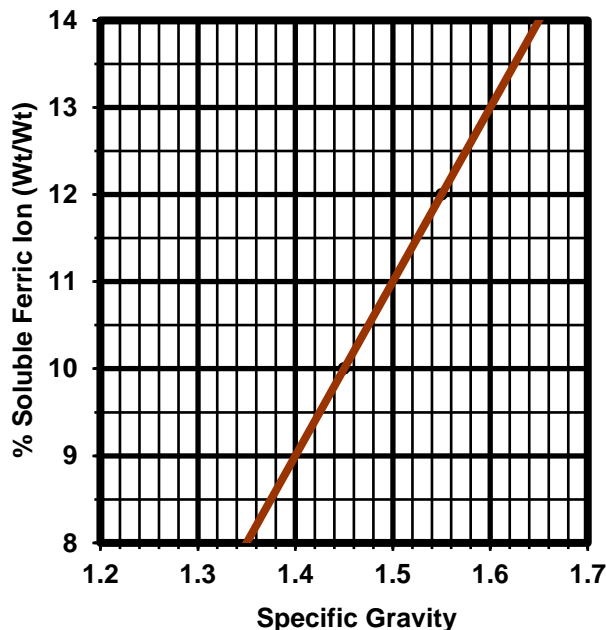
## CHARACTERISTICS

Liquid ferric sulfate is a red-brown aqueous solution.

## TYPICAL PROPERTIES

	50% Ferric Sulfate	55% Ferric Sulfate	60% Ferric Sulfate
Soluble Ferric Iron (Fe <sup>+3</sup> )	10%	11%	12%
Soluble Ferrous Iron (Fe <sup>+2</sup> )	< 0.2%	< 0.2%	< 0.2%
Free Sulfuric Acid (as H <sub>2</sub> SO <sub>4</sub> )	< 3%	< 3%	< 3%
Water Insolubles	< 0.1%	< 0.1%	< 0.1%
Product Density, lbs./US gallon	11.7 - 12.6	12.5 - 12.9	12.5 - 13.5
pH, as is	1.0 (approx.)	1.0 (approx.)	1.0 (approx.)
pH, 1% solution	4.8 (approx.)	4.8 (approx.)	4.8 (approx.)
Specific Gravity (See Figure 1)	1.40 - 1.51	1.50 - 1.55	1.50 - 1.62
Freezing Temperatures	< -50°C (< -58°F)	< -50°C (< -58°F)	< -50°C (< -58°F)
Boiling Temperatures (approx.)	100°C (212°F)	100°C (212°F)	100°C (212°F)

Acidified and Polymer Blends of Ferric Sulfate also available



**Figure 1:** Approximate Specific Gravity of Liquid Ferric Sulfate, at 16°C (60°F).

## PRODUCT MARKETS AND USES

### Potable & Process Water Treatment

- Coagulant for Turbidity Removal
- Color Reduction
- Disinfection Byproduct Control
- Total Organic Carbon (TOC) Reduction
- Water Clarification

### Municipal & Industrial Wastewater Treatment

- BOD Removal
- Chemically Enhanced Primary Treatment
- Coagulation / Flocculation Agent
- H<sub>2</sub>S Removal and Odor Control
- Oily Waste and Heavy Metal Separation
- Phosphorus Control
- Sludge Conditioning / Thickening and Dewatering
- Stormwater Treatment
- Struvite Control
- Suspended Solids Removal

# Liquid Ferric Sulfate

## PRODUCT PROFILE

### CONTAINERS

- Bulk rail cars
- Bulk tank trucks
- 250 gallon totes
- 55 gallon drums

### SHIPPING LOCATIONS

Liquid Ferric Sulfate is shipped from the following North American locations:

- Decatur, AL
- Denver, CO
- East St. Louis, IL
- Newark, NJ
- Middletown, OH
- Celina, TX
- Hopewell, VA
- Menasha, WI
- Wisconsin Rapids, WI
- Saint-Augustin-de-Desmaures, QC
- Saskatoon, SK

### PRODUCT SAFETY INFORMATION

Liquid ferric sulfate may be harmful if swallowed, and causes severe skin burns and eye damage. Do not breathe mist, spray, or vapors. Wash hands, forearms, and other exposed areas thoroughly after handling. Wear protective gloves, protective clothing, and eye protection.

Anyone procuring, using or disposing of these products or their containers must be familiar with the appropriate safety and handling precautions.

This information is available in the Safety Data Sheet, which may be obtained by contacting our Customer Service group. In the event of an emergency with these products, call the 24 hour Emergency Number:

*US and Canada Only:*  
(CHEMTREC) (800) 424-9300

### SHIPPING REGULATIONS

Hazard Class: 8

Label: *Corrosive*

ID Number: *UN3264*

Proper Shipping Name: *Corrosive Liquid, Acidic, Inorganic, N.O.S. (Contains Ferric Sulfate, Sulfuric Acid)*

Packing Group: *II*

### FEEDING METHODS

Liquid Ferric Sulfate can be fed with metering pumps, eductors, rotometers, and rotadips or even gravity through a needle valve.

Attention must be paid to the materials of construction of the feed equipment, piping, and storage vessels.

### SATISFACTORY MATERIALS OF CONSTRUCTION

Most commonly used plastics including polyethylenes, polypropylene, PVC, ABS, Teflon, and FRP.

Most commonly used elastomers including natural rubbers, Hypalon, Buna N, and Neoprene.

Metals: Stainless Steel Type 316, Alloy 20.  
Others: Glass, Ceramics.

### CORPORATE HEADQUARTERS

Chemtrade Logistics, Inc.  
155 Gordon Baker Road, Suite 300  
Toronto, Ontario M2H 3N5 Canada



#### CUSTOMER SERVICE

(844) 204 9675

#### TECHNICAL SERVICE

(800) 255 7589 or (315) 478 2323

#### WEBSITE

[www.chemtradelogistics.com](http://www.chemtradelogistics.com)

Revision Date: May 13, 2020

All information, statements, data, advice and/or recommendations, including, without limitation, those relating to storage, loading/unloading, piping and transportation (collectively referred to herein as "information") are believed to be accurate and reliable. However, no representation or warranty, express or implied, is made as to its completeness, accuracy, fitness for a particular purpose or any other matter, including, without limitation, that the practice or application of any such information is free of patent infringement or other intellectual property misappropriation. Chemtrade Logistics Inc. and its affiliates (collectively, "Chemtrade") are not engaged in the business of providing technical, operational, engineering or safety information for a fee, and, therefore, any such information provided herein has been furnished as an accommodation and without charge. All information provided herein is intended for use by persons having requisite knowledge, skill and experience in the chemical industry. Chemtrade shall not be responsible or liable for the use, application or implementation of the information provided herein, and all such information is to be used at the risk, and in the sole judgment and discretion, of such persons, their employees, advisors and agents.