

# SAFETY DATA SHEET

## Ferrous Sulfate Heptahydrate

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Printed: 03/16/2015

Revision: 03/16/2015

Supersedes Revision: 11/19/2014

### 1. Product and Company Identification

**Product Code:** FSH  
**Product Name:** Ferrous Sulfate Heptahydrate  
**Trade Name:** copperas, green vitriol  
**Company Name:** CROWN TECHNOLOGY, INC  
7513 E. 96TH STREET  
Indianapolis, IN 46256  
**Phone Number:** (317)845-0045  
**Web site address:** crowntech.com  
**Emergency Contact:** PERS (800)633-8253

**Distributed by:**  
**SAL Chemical**  
3036 Birch Drive,  
Weirton, WV 26062  
304.748.8200 - Phone  
304.797.8751 - Fax

### 2. Hazards Identification

**Acute Toxicity: Oral, Category 4**  
**Skin Corrosion/Irritation, Category 2**  
**Serious Eye Damage/Eye Irritation, Category 2**



**GHS Signal Word:** Warning  
**GHS Hazard Phrases:** H302 - Harmful if swallowed.  
H315 - Causes skin irritation.  
H319 - Causes serious eye irritation.  
**GHS Precaution Phrases:** P264 - Wash hands thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P362+364 - Take off contaminated clothing and wash it before reuse.  
**GHS Response Phrases:** P301+312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P330 - Rinse mouth.  
P302+352 - IF ON SKIN: Wash with plenty of soap and water.  
P332+313 - If skin irritation occurs, get medical advice/attention.  
P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+313 - If eye irritation persists, get medical advice/attention.  
**GHS Storage and Disposal Phrases:** No phrases apply.

**Potential Health Effects**  
**(Acute and Chronic):**

### 3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration
7782-63-0	Ferrous sulfate	100.0 %

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**4. First Aid Measures**

**Emergency and First Aid**

**Procedures:**

**In Case of Inhalation:** If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention. Never give anything by mouth to an unconscious person.

**In Case of Skin Contact:** Wash skin with soap and water.

**In Case of Eye Contact:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If eye irritation persists, get medical advice/attention.

**In Case of Ingestion:** If swallowed, induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

**5. Fire Fighting Measures**

**Flash Pt:** No data.

**Explosive Limits:** LEL: No data. UEL: No data.

**Autoignition Pt:** No data.

**Suitable Extinguishing Media:** Use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam.

**Fire Fighting Instructions:** Substance is noncombustible.

**Flammable Properties and Hazards:** No data available.

**6. Accidental Release Measures**

**Steps To Be Taken In Case Material Is Released Or Spilled:** Clean up spills immediately, observing precautions in Protective Equipment section.

**7. Handling and Storage**

**Precautions To Be Taken in Handling:** Store in a cool dry place.

**Precautions To Be Taken in Storing:** Keep container closed when not in use.

**8. Exposure Controls/Personal Protection**

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
7782-63-0	Ferrous sulfate	No data.	No data.	No data.
<b>Respiratory Equipment (Specify Type):</b>	ANSI approved respirator.			
<b>Eye Protection:</b>	Goggles.			
<b>Protective Gloves:</b>	Wear appropriate protective gloves to prevent skin exposure.			
<b>Other Protective Clothing:</b>	Wear appropriate protective clothing to prevent skin exposure.			
<b>Engineering Controls (Ventilation etc.):</b>	No data available.			

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## 9. Physical and Chemical Properties

**Physical States:** [ ] Gas [ ] Liquid [ X ] Solid

**Appearance and Odor:** Appearance: Bluish Green Crystals. Odor: metal odor.

**Melting Point:** 149.00 F (65.0 C)

**Boiling Point:** 572.00 F (300.0 C)

**Decomposition Temperature:** 572.00 F (300.0 C)

**Autoignition Pt:** No data.

**Flash Pt:** No data.

**Explosive Limits:** LEL: No data. UEL: No data.

**Specific Gravity (Water = 1):** No data.

**Density:** 55 LB/CF

**Vapor Pressure (vs. Air or mm Hg):** No data.

**Vapor Density (vs. Air = 1):** No data.

**Evaporation Rate:** No data.

**Solubility in Water:** 46.8g/100g

**pH:** 5% Sol 2.5 - 5

**Percent Volatile:** No data.

**Molecular Formula & Weight:** FeSO<sub>4</sub>\*7H<sub>2</sub>O 278.0

## 10. Stability and Reactivity

**Stability:** Unstable [ ] Stable [ X ]

**Conditions To Avoid - Instability:** No data available.

**Incompatibility - Materials To Avoid:** No data available.

**Hazardous Decomposition Or Byproducts:** No data available.

**Possibility of Hazardous Reactions:** Will occur [ X ] Will not occur [ ]

**Conditions To Avoid - Hazardous Reactions:** No data available.

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### 11. Toxicological Information

**Toxicological Information:** CAS# 7782-63-0: Acute toxicity, LD50, Oral, Mouse, 1520. MG/KG. Results: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste): Eye: Mydriasis (pupillary dilation). Behavioral: Convulsions or effect on seizure threshold. Gastrointestinal: Nausea or vomiting. ; American Journal of the Medical Sciences., Slack Inc., 6900 Grove Rd., Thorofare, NJ 08086, Vol/p/yr: 230,491, 1955

**Carcinogenicity:** NTP? No IARC Monographs? No OSHA Regulated? No

### 12. Ecological Information

**General Ecological Information:** No data available.

**Results of PBT and vPvB assessment:** No data available.

### 13. Disposal Considerations

**Waste Disposal Method:** Observe all federal, state, and local environmental regulations.

### 14. Transport Information

#### LAND TRANSPORT (US DOT):

**DOT Proper Shipping Name:** Not regulated as a hazardous material.

**DOT Hazard Class:**

**UN/NA Number:** NA9188

### 15. Regulatory Information

#### EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
7782-63-0	Ferrous sulfate	No	Yes 1000 LB	No

**This material meets the EPA 'Hazard Categories' defined for SARA Title III Sections 311/312 as indicated:**

<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Acute (immediate) Health Hazard
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Chronic (delayed) Health Hazard
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Fire Hazard
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Sudden Release of Pressure Hazard
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Reactive Hazard

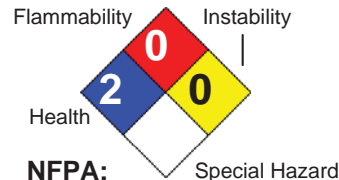
### 16. Other Information

**Revision Date:** 03/16/2015

**Hazard Rating System:**

HEALTH		2
FLAMMABILITY		0
PHYSICAL		0
PPE		

**HMIS:**



**Additional Information About This Product:** No data available.

**This Product:**