

SAFETY DATA SHEET

Ferrous Sulfate Heptahydrate

Page: **CF02100**

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

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. |
| Respiratory Equipment (Specify Type): | ANSI approved respirator. | | | |
| Eye Protection: | Goggles. | | | |
| Protective Gloves: | Wear appropriate protective gloves to prevent skin exposure. | | | |
| Other Protective Clothing: | Wear appropriate protective clothing to prevent skin exposure. | | | |
| Engineering Controls (Ventilation etc.): | 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: FeSO4*7H2O 278.0

10. Stability and Reactivity

Stability: Unstable [] Stable [X]
Conditions To Avoid - No data available.
Instability:
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 |

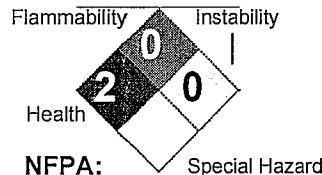
16. Other Information

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Hazard Rating System:

| | |
|--------------|---|
| HEALTH | 2 |
| FLAMMABILITY | 0 |
| PHYSICAL | 0 |

HMIS:



Additional Information About This Product: No data available.

This Product: