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#### 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

Web site address: crowntech.com

**Emergency Contact:** PERS

**Information:** 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.

P321 - Specific treatment see ... on this label.

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** 

P501 - Dispose of contents/container to ....

Phrases:

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.

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

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and In Case of Eye Contact:

lower eyelids. If eye irritation persists, get medical advice/attention.

If swallowed, induce vomiting immediately as directed by medical personnel. Never give In Case of Ingestion:

anything by mouth to an unconscious person. Get medical attention immediately.

5. Fire Fighting Measures

Flash Pt: No data.

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

No data available.

No data. **Autoignition Pt:** 

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

Fire Fighting Instructions: Substance is noncombustible.

Flammable Properties and

Hazards:

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

6. Accidental Release Measures

Precautions To Be Taken in

Store in a cool dry place.

Handling:

Precautions To Be Taken in

Keep container closed when not in use.

Storing:

## 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** 

ANSI approved respirator.

(Specify Type):

**Eve 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 No data.

mm Hg):

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 No data available.

Avoid:

Hazardous Decomposition Or No data available.

Byproducts:

Possibility of Hazardous Will occur [ X ] Will not occur [ ]

Reactions:

Conditions To Avoid - No data available.

Hazardous Reactions:

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11. Toxicological Information

Toxicological Information: No data available.

CAS# 7782-63-0: Acute toxicity, LD50, Oral, Mouse, 1520. MG/KG; American Journal

of the Medical Sciences., Slack Inc., 6900 Grove Rd., Thorofare, NJ 08086, Vol/p/yr: Carcinogenicity:

230,491, 1955

NTP? No IARC Monographs? No OSHA Regulated? No

12. Ecological Information

General Ecological

Results of PBT and vPvB

No data available.

Information:

No data available.

assessment:

13. Disposal Considerations

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

**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 [X] Yes [ ] No Acute (immediate) Health Hazard 'Hazard Categories' defined [ ] Yes [X] No Chronic (delayed) Health Hazard

for SARA Title III Sections [ ] Yes [X] No Fire Hazard

311/312 as indicated: [ ] Yes [X] No Sudden Release of Pressure Hazard

[ ] Yes [X] No Reactive Hazard

#### 16. Other Information

11/19/2014 **Revision Date:** 

**Hazard Rating System:** HEALTH **FLAMMABILITY** 0 **PHYSICAL** 0

**PPE** 

Instability Flammability NFPA: Special Hazard

HMIS:

Additional Information About No data available.

This Product: