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Supersedes Revision: 06/01/2023

**Phone Number:** 

(317)845-0045

#### 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 (800)633-8253

Intended Use: Iron Source

#### 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 Precautionary 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:

#### 3. Composition/Information on Ingredients

CAS # 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:

LEL: UEL: **Explosive Limits:** 

Autoignition Pt:

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

Unsuitable Extinguishing

Substance is noncombustible; use agent most appropriate to extinguish surrounding fire.

Media:

Fire Fighting Instructions: Substance is noncombustible.

Flammable Properties and

Hazards:

Non Combustible.

**Hazardous Combustion** 

sulfur oxides.

**Products:** 

#### 6. Accidental Release Measures

Protective Precautions.

Not available.

**Protective Equipment and Emergency Procedures:** 

Reportable Quantity: 1000 lbs. **Environmental Precautions:** 

Steps To Be Taken In Case

Clean up spills immediately, observing precautions in Protective Equipment section.

Material Is Released Or

Spilled:

## 7. Handling and Storage

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:

Other Precautions: None.

## 8. Exposure Controls/Personal Protection

**Partial Chemical Name OSHA TWA** CAS# **ACGIH TWA Other Limits** 

7782-63-0 Ferrous sulfate

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Recommended Exposure

Not available.

Limits:

Respiratory Equipment

ANSI approved respirator.

(Specify Type):

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.):

If user operations generate dust, fume or mist, use ventilation to keep exposure to

airborne contaminants below the exposure limit.

Work/Hygienic/Maintenance

Wash thoroughly after handling.

Practices:

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

**Appearance and Odor:** Appearance: Bluish green to brown crystals.

Odor: metal odor.
Odor Threshold: N/A.

**pH:** 5% Sol 2.5 - 5 **Melting Point:** 149.00 F **Boiling Point:** 572.00 F

Flash Pt:

**Evaporation Rate:** 

Flammability (solid, gas):

Explosive Limits: LEL: UEL:

Vapor Pressure (vs. Air or

mm Hg):

Vapor Density (vs. Air = 1): Specific Gravity (Water =

1):

Density: 55 LB/CF Solubility in Water: 46.8g/100g

Saturated Vapor Concentration:

Octanol/Water Partition

N/A

Coefficient:

**Autoignition Pt:** 

Decomposition

572.00 F

Temperature:

Viscosity: Not established

Molecular Formula &

FeSO4\*7H2O 278.0

Weight:

Information with regard to primary physical hazard:

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10. Stability and Reactivity

Stability: Unstable [ ] Stable [ X ]

**Conditions To Avoid -**

Instability:

Incompatibility - Materials To

Avoid:

Hazardous Decomposition or

Byproducts:

Possibility of Hazardous

Will occur [X] Will not occur []

Reactions:

Conditions To Avoid - Hazardous Reactions:

#### 11. Toxicological Information

Toxicological Information: CAS# 7782-63-0: Acute toxicity, LD50, Oral, Mouse, 1520. MG/KG. Result: Sense

Organs and Special Senses (Nose, Eye, Ear, and Taste): Eye: Mydriasis (pupilliary

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

No data available.

Information: CAS# 7782-63-0: LC50, Bluegill (Lepomis macrochirus), 51.20 PPM, 96 H, Mortality.

Result: Morphological changes.; Pesticide Ecotoxicity Database (Formerly: Environmental Effects Database (EEDB)), Office of Pesticide Programs, 2000 LC50, Rainbow Trout (Oncorhynchus mykiss), 20.80 PPM, 96 H, Mortality. Result: Affected fish stopped schooling behavior. Affected fish became hypoactive.; Pesticide Ecotoxicity Database (Formerly: Environmental Effects Database (EEDB)), Office of

Pesticide Programs, 2000

Effective concentration to 50% of test organisms., Water Flea (Daphnia pulex), 7.100 PPM, 48 H, Intoxication,. Result: No loss of equilibrium observed.; Pesticide Ecotoxicity Database (Formerly: Environmental Effects Database (EEDB)), Office of Pesticide

Programs, 2000

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:

# SAFETY DATA SHEET

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## 15. Regulatory Information

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

CAS # Components (Chemical Name) S. 302 (EHS) S. 304 RQ S. 313 (TRI)

7782-63-0 Ferrous sulfate No Yes NA No

16. Other Information

**Revision Date:** 09/19/2023 **Previous revision:** 06/01/2023

Additional Information About

This Product:

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