

# Ferrous Sulfate Heptahydrate, Moist

## Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations  
Revision Date: 01/04/2016 Date of issue: 09/15/2015

Version: 1.0

### SECTION 1: IDENTIFICATION

#### 1.1. Product Identifier

**Product Form:** Mixture

**Product Name:** Ferrous Sulfate Heptahydrate, Moist

**Formula:** FeSO<sub>4</sub> 7H<sub>2</sub>O

**Synonyms:** Copperas, Iron (II) Sulfate, Green Vitriol

#### 1.2. Intended Use of the Product

No use is specified.

#### 1.3. Name, Address, and Telephone of the Responsible Party

##### Company

Davis Wire Corporation

5555 Irwindale Avenue

Irwindale, CA 91706

T: (626) 969-7651

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

#### 1.4. Emergency Telephone Number

**Emergency Number** : (626) 969-7651

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the Substance or Mixture

##### GHS-US classification

Acute Tox. 4 (Oral) H302

Skin Irrit. 2 H315

Eye Irrit. 2A H319

Full text of H-phrases: see section 16

#### 2.2. Label Elements

##### GHS-US Labeling

**Hazard Pictograms (GHS-US)** :



**Signal Word (GHS-US)** : Warning

**Hazard Statements (GHS-US)** : H302 - Harmful if swallowed.

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

**Precautionary Statements (GHS-US)** : P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P280 - Wear protective gloves, protective clothing, and eye protection.

P301+P312 - If swallowed: Call a poison center or doctor if you feel unwell.

P302+P352 - If on skin: Wash with plenty of water.

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P321 - Specific treatment (see section 4 on this SDS).

P330 - Rinse mouth.

P332+P313 - If skin irritation occurs: Get medical advice/attention.

P337+P313 - If eye irritation persists: Get medical advice/attention.

P362+P364 - Take off contaminated clothing and wash it before reuse.

P501 - Dispose of contents/container in accordance with local, regional, national, provincial, territorial and international regulations.

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### 2.3. Other Hazards

Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

### 2.4. Unknown Acute Toxicity (GHS-US)

No data available

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

Not applicable

### 3.2. Mixture

| Name   | Product Identifier | % (w/w)  | GHS-US classification   |
|--|--------------------|----------|---|
| Ferrous sulfate heptahydrate                 | (CAS No) 7782-63-0 | 98 - 100 | Acute Tox. 4 (Oral), H302<br>Skin Irrit. 2, H315<br>Eye Irrit. 2A, H319 |
| Iron oxide (Fe <sub>2</sub> O <sub>3</sub> ) | (CAS No) 1309-37-1 | 0.1 - 1  | Comb. Dust  |
| Sulfuric acid                                | (CAS No) 7664-93-9 | 0.1 - 1  | Skin Corr. 1A, H314<br>Eye Dam. 1, H318<br>Aquatic Acute 3, H402        |

Full text of H-phrases: see section 16

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of First Aid Measures

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**Inhalation:** When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

**Skin Contact:** Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists.

**Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

**Ingestion:** Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

### 4.2. Most Important Symptoms and Effects Both Acute and Delayed

**General:** Causes serious eye irritation. Causes skin irritation. Harmful if swallowed.

**Inhalation:** Prolonged exposure may cause irritation.

**Skin Contact:** Redness, pain, swelling, itching, burning, dryness, and dermatitis.

**Eye Contact:** Contact causes severe irritation with redness and swelling of the conjunctiva.

**Ingestion:** This material is harmful orally and can cause adverse health effects or death in significant amounts. Ingestion may cause adverse effects. Acute exposure side effects of ingestion of iron salts may include heartburn, nausea, gastric discomfort, constipation or diarrhea. Symptoms of severe poisoning may occur within 30 minutes or be delayed for several hours. Severe hemorrhagic gastritis with abdominal pain, retching, violent diarrhea, and vomiting may occur.

**Chronic Symptoms:** None expected under normal conditions of use.

### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

## SECTION 5: FIRE-FIGHTING MEASURES

### 5.1. Extinguishing Media

**Suitable Extinguishing Media:** Use extinguishing media appropriate for surrounding fire.

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.

### 5.2. Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Not considered flammable but may burn at high temperatures.

**Explosion Hazard:** Product is not explosive.

**Reactivity:** Hazardous reactions will not occur under normal conditions.

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### 5.3. Advice for Firefighters

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire. Under fire conditions, hazardous fumes will be present.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Sulfur oxides.

### Reference to Other Sections

Refer to section 9 for flammability properties.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Avoid breathing dust. Avoid all contact with skin, eyes, or clothing. Avoid prolonged contact with eyes, skin and clothing.

#### 6.1.1. For Non-Emergency Personnel

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

#### 6.1.2. For Emergency Personnel

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Ventilate area. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

### 6.2. Environmental Precautions

Prevent entry to sewers and public waters.

### 6.3. Methods and Material for Containment and Cleaning Up

**For Containment:** Contain solid spills with appropriate barriers and prevent migration and entry into sewers or streams.

**Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Recover the product by vacuuming, shoveling or sweeping. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

### 6.4. Reference to Other Sections

See Heading 8. Exposure controls and personal protection. See Section 13, Disposal Considerations.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for Safe Handling

**Additional Hazards When Processed:** Corrosive to metals upon prolonged contact. Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Maintain a constant temperature not to exceed 24 °C (75 °F). Fluctuating temperatures causes product oxidation. Do not use this product if coated with brownish-yellow basic ferric sulfate. Isolate from incompatible substances. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product. There is evidence that occupational exposure to strong inorganic acid mists containing sulfuric acid is carcinogenic.

**Precautions for Safe Handling:** Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid breathing dust. Handle empty containers with care because they may still present a hazard. Do not get in eyes, on skin, or on clothing. Avoid prolonged contact with eyes, skin and clothing.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures.

### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Comply with applicable regulations.

**Storage Conditions:** Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

**Incompatible Materials:** Strong acids, strong bases, strong oxidizers.

### 7.3. Specific End Use(s)

No use is specified.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

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| <b>Iron oxide (Fe<sub>2</sub>O<sub>3</sub>) (1309-37-1)</b> |                                      |   |
|---|--------------------------------------|---|
| <b>Mexico</b>   | OEL TWA (mg/m <sup>3</sup> )         | 5 mg/m <sup>3</sup>   |
| <b>Mexico</b>   | OEL STEL (mg/m <sup>3</sup> )        | 10 mg/m <sup>3</sup>  |
| <b>USA ACGIH</b>  | ACGIH TWA (mg/m <sup>3</sup> )       | 5 mg/m <sup>3</sup> (respirable fraction)   |
| <b>USA ACGIH</b>  | ACGIH chemical category              | Not Classifiable as a Human Carcinogen  |
| <b>USA OSHA</b>   | OSHA PEL (TWA) (mg/m <sup>3</sup> )  | 10 mg/m <sup>3</sup> (fume)<br>15 mg/m <sup>3</sup> (total dust)<br>5 mg/m <sup>3</sup> (respirable fraction)   |
| <b>USA NIOSH</b>  | NIOSH REL (TWA) (mg/m <sup>3</sup> ) | 5 mg/m <sup>3</sup> (dust and fume)   |
| <b>USA IDLH</b>   | US IDLH (mg/m <sup>3</sup> )         | 2500 mg/m <sup>3</sup> (dust and fume)  |
| <b>Alberta</b>  | OEL TWA (mg/m <sup>3</sup> )         | 5 mg/m <sup>3</sup> (respirable)  |
| <b>British Columbia</b>                                     | OEL STEL (mg/m <sup>3</sup> )        | 10 mg/m <sup>3</sup> (fume)   |
| <b>British Columbia</b>                                     | OEL TWA (mg/m <sup>3</sup> )         | 10 mg/m <sup>3</sup> (total particulate matter containing no Asbestos and <1% Crystalline silica-total particulate)<br>3 mg/m <sup>3</sup> (particulate matter containing no Asbestos and <1% Crystalline silica-respirable particulate)<br>5 mg/m <sup>3</sup> (dust and fume) |
| <b>Manitoba</b>   | OEL TWA (mg/m <sup>3</sup> )         | 5 mg/m <sup>3</sup> (respirable fraction)   |
| <b>New Brunswick</b>  | OEL TWA (mg/m <sup>3</sup> )         | 5 mg/m <sup>3</sup> (particulate matter containing no Asbestos and <1% Crystalline silica, dust and fume)<br>10 mg/m <sup>3</sup> (regulated under Rouge-particulate matter containing no Asbestos and <1% Crystalline silica)  |
| <b>Newfoundland &amp; Labrador</b>                          | OEL TWA (mg/m <sup>3</sup> )         | 5 mg/m <sup>3</sup> (respirable fraction)   |
| <b>Nova Scotia</b>  | OEL TWA (mg/m <sup>3</sup> )         | 5 mg/m <sup>3</sup> (respirable fraction)   |
| <b>Nunavut</b>  | OEL TWA (mg/m <sup>3</sup> )         | 5 mg/m <sup>3</sup> (respirable mass)<br>10 mg/m <sup>3</sup> (total mass)  |
| <b>Northwest Territories</b>                                | OEL STEL (mg/m <sup>3</sup> )        | 10 mg/m <sup>3</sup> (dust and fume)<br>20 mg/m <sup>3</sup> (regulated under Rouge)  |
| <b>Northwest Territories</b>                                | OEL TWA (mg/m <sup>3</sup> )         | 5 mg/m <sup>3</sup> (dust and fume)<br>10 mg/m <sup>3</sup> (regulated under Rouge)   |
| <b>Ontario</b>  | OEL TWA (mg/m <sup>3</sup> )         | 5 mg/m <sup>3</sup> (respirable)  |
| <b>Prince Edward Island</b>                                 | OEL TWA (mg/m <sup>3</sup> )         | 5 mg/m <sup>3</sup> (respirable fraction)   |
| <b>Québec</b>   | VEMP (mg/m <sup>3</sup> )            | 5 mg/m <sup>3</sup> (dust and fume)<br>10 mg/m <sup>3</sup> (containing no Asbestos and <1% Crystalline silica, regulated under Rouge-total dust)   |
| <b>Saskatchewan</b>   | OEL STEL (mg/m <sup>3</sup> )        | 10 mg/m <sup>3</sup> (dust and fume)<br>20 mg/m <sup>3</sup> (regulated under Rouge)  |
| <b>Saskatchewan</b>   | OEL TWA (mg/m <sup>3</sup> )         | 5 mg/m <sup>3</sup> (dust and fume)<br>10 mg/m <sup>3</sup> (regulated under Rouge)   |
| <b>Yukon</b>  | OEL STEL (mg/m <sup>3</sup> )        | 10 mg/m <sup>3</sup> (fume)<br>20 mg/m <sup>3</sup> (regulated under Rouge)   |
| <b>Yukon</b>  | OEL TWA (mg/m <sup>3</sup> )         | 5 mg/m <sup>3</sup> (fume)<br>30 mppcf (regulated under Rouge)<br>10 mg/m <sup>3</sup> (regulated under Rouge)  |
| <b>Sulfuric acid (7664-93-9)</b>                            |                                      |   |
| <b>Mexico</b>   | OEL TWA (mg/m <sup>3</sup> )         | 1 mg/m <sup>3</sup>   |
| <b>USA ACGIH</b>  | ACGIH TWA (mg/m <sup>3</sup> )       | 0.2 mg/m <sup>3</sup> (thoracic fraction)   |
| <b>USA ACGIH</b>  | ACGIH chemical category              | Suspected Human Carcinogen contained in strong inorganic acid mists   |
| <b>USA OSHA</b>   | OSHA PEL (TWA) (mg/m <sup>3</sup> )  | 1 mg/m <sup>3</sup>   |
| <b>USA NIOSH</b>  | NIOSH REL (TWA) (mg/m <sup>3</sup> ) | 1 mg/m <sup>3</sup>   |
| <b>USA IDLH</b>   | US IDLH (mg/m <sup>3</sup> )         | 15 mg/m <sup>3</sup>  |

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|                         |                               |  |
|-------------------------|-------------------------------|--|
| Alberta                 | OEL STEL (mg/m <sup>3</sup> ) | 3 mg/m <sup>3</sup>  |
| Alberta                 | OEL TWA (mg/m <sup>3</sup> )  | 1 mg/m <sup>3</sup>  |
| British Columbia        | OEL TWA (mg/m <sup>3</sup> )  | 0.2 mg/m <sup>3</sup> (Thoracic, contained in strong inorganic acid mists) |
| Manitoba                | OEL TWA (mg/m <sup>3</sup> )  | 0.2 mg/m <sup>3</sup> (thoracic fraction)                                  |
| New Brunswick           | OEL STEL (mg/m <sup>3</sup> ) | 3 mg/m <sup>3</sup>  |
| New Brunswick           | OEL TWA (mg/m <sup>3</sup> )  | 1 mg/m <sup>3</sup>  |
| Newfoundland & Labrador | OEL TWA (mg/m <sup>3</sup> )  | 0.2 mg/m <sup>3</sup> (thoracic fraction)                                  |
| Nova Scotia             | OEL TWA (mg/m <sup>3</sup> )  | 0.2 mg/m <sup>3</sup> (thoracic fraction)                                  |
| Nunavut                 | OEL STEL (mg/m <sup>3</sup> ) | 3 mg/m <sup>3</sup>  |
| Nunavut                 | OEL TWA (mg/m <sup>3</sup> )  | 1 mg/m <sup>3</sup>  |
| Northwest Territories   | OEL STEL (mg/m <sup>3</sup> ) | 0.6 mg/m <sup>3</sup> (thoracic fraction)                                  |
| Northwest Territories   | OEL TWA (mg/m <sup>3</sup> )  | 0.2 mg/m <sup>3</sup> (thoracic fraction)                                  |
| Ontario                 | OEL TWA (mg/m <sup>3</sup> )  | 0.2 mg/m <sup>3</sup> (thoracic)   |
| Prince Edward Island    | OEL TWA (mg/m <sup>3</sup> )  | 0.2 mg/m <sup>3</sup> (thoracic fraction)                                  |
| Québec                  | VECD (mg/m <sup>3</sup> )     | 3 mg/m <sup>3</sup>  |
| Québec                  | VEMP (mg/m <sup>3</sup> )     | 1 mg/m <sup>3</sup>  |
| Saskatchewan            | OEL STEL (mg/m <sup>3</sup> ) | 0.6 mg/m <sup>3</sup> (thoracic fraction)                                  |
| Saskatchewan            | OEL TWA (mg/m <sup>3</sup> )  | 0.2 mg/m <sup>3</sup> (thoracic fraction)                                  |
| Yukon                   | OEL STEL (mg/m <sup>3</sup> ) | 1 mg/m <sup>3</sup>  |
| Yukon                   | OEL TWA (mg/m <sup>3</sup> )  | 1 mg/m <sup>3</sup>  |

### 8.2. Exposure Controls

**Appropriate Engineering Controls:** Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

**Personal Protective Equipment:** Gloves. Protective clothing. Protective goggles.



**Materials for Protective Clothing:** Chemically resistant materials and fabrics.

**Hand Protection:** Wear protective gloves.

**Eye Protection:** Chemical safety goggles.

**Skin and Body Protection:** Wear suitable protective clothing.

**Respiratory Protection:** If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

**Environmental Exposure Controls:** Avoid release to the environment.

**Other Information:** When using, do not eat, drink or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on Basic Physical and Chemical Properties

|                  |                                    |
|------------------|------------------------------------|
| Physical State   | : Solid                            |
| Appearance       | : Hygroscopic, Blue Green, Crystal |
| Odor             | : Not available                    |
| Odor Threshold   | : Not available                    |
| pH               | : Not available                    |
| Evaporation Rate | : Not available                    |
| Melting Point    | : Not available                    |
| Freezing Point   | : Loses Water at 149 °F (65 °C)    |
| Boiling Point    | : Decomposes > 572 °F (> 300 °C)   |
| Flash Point      | : Not available                    |

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|  |  |
|--|--|
| <b>Auto-ignition Temperature</b>                         | : Not available  |
| <b>Decomposition Temperature</b>                         | : Not available  |
| <b>Flammability (solid, gas)</b>                         | : Not available  |
| <b>Lower Flammable Limit</b>                             | : Not available  |
| <b>Upper Flammable Limit</b>                             | : Not available  |
| <b>Vapor Pressure</b>                                    | : Not available  |
| <b>Relative Vapor Density at 20 °C</b>                   | : Not available  |
| <b>Relative Density</b>                                  | : Not available  |
| <b>Specific gravity / density</b>                        | : Approximately 60-70 lb / ft <sup>3</sup> (1.898@ 25°C)               |
| <b>Specific Gravity</b>                                  | : Not available  |
| <b>Solubility</b>  | : Water: 48.6 g/100 g water at 20°C                                    |
| <b>Partition Coefficient: N-Octanol/Water</b>            | : Not available  |
| <b>Viscosity</b>   | : Not available  |
| <b>Explosive Properties</b>                              | : Product is not explosive   |
| <b>Explosion Data – Sensitivity to Mechanical Impact</b> | : Not expected to present an explosion hazard due to mechanical impact |
| <b>Explosion Data – Sensitivity to Static Discharge</b>  | : Not expected to present an explosion hazard due to static discharge  |

### SECTION 10: STABILITY AND REACTIVITY

- 10.1. **Reactivity:** Hazardous reactions will not occur under normal conditions.
- 10.2. **Chemical Stability:** Stable under recommended handling and storage conditions (see section 7).
- 10.3. **Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.
- 10.4. **Conditions to Avoid:** Direct sunlight, extremely high or low temperatures, and incompatible materials.
- 10.5. **Incompatible Materials:** Strong acids, strong bases, strong oxidizers.
- 10.6. **Hazardous Decomposition Products:** Decomposes above 300 °C (572 °F) liberating SO<sub>2</sub> and SO<sub>3</sub>. Sulfur oxides are toxic.

### SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1. Information on Toxicological Effects - Product

**Acute Toxicity:** Oral: Harmful if swallowed.

**LD50 and LC50 Data:**

| Ferrous Sulfate Heptahydrate, Moist |                          |
|-------------------------------------|--------------------------|
| ATE US (oral)                       | 500.00 mg/kg body weight |

**Skin Corrosion/Irritation:** Causes skin irritation.

**Serious Eye Damage/Irritation:** Causes serious eye irritation.

**Respiratory or Skin Sensitization:** Not classified

**Germ Cell Mutagenicity:** Not classified

**Teratogenicity:** Not classified

**Carcinogenicity:** Not classified

**Specific Target Organ Toxicity (Repeated Exposure):** Not classified

**Reproductive Toxicity:** Not classified

**Specific Target Organ Toxicity (Single Exposure):** Not classified

**Aspiration Hazard:** Not classified

**Symptoms/Injuries After Inhalation:** Prolonged exposure may cause irritation.

**Symptoms/Injuries After Skin Contact:** Redness, pain, swelling, itching, burning, dryness, and dermatitis.

**Symptoms/Injuries After Eye Contact:** Contact causes severe irritation with redness and swelling of the conjunctiva.

**Symptoms/Injuries After Ingestion:** This material is harmful orally and can cause adverse health effects or death in significant amounts. Ingestion may cause adverse effects. Acute exposure side effects of ingestion of iron salts may include heartburn, nausea, gastric discomfort, constipation or diarrhea. Symptoms of severe poisoning may occur within 30 minutes or be delayed for several hours. Severe hemorrhagic gastritis with abdominal pain, retching, violent diarrhea, and vomiting may occur.

**Chronic Symptoms:** None expected under normal conditions of use.

#### 11.2. Information on Toxicological Effects - Ingredient(s)

**LD50 and LC50 Data:**

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|   |   |
|---|---|
| <b>Ferrous sulfate heptahydrate (7782-63-0)</b>             |   |
| ATE US (oral)   | 500.00 mg/kg body weight                      |
| <b>Iron oxide (Fe<sub>2</sub>O<sub>3</sub>) (1309-37-1)</b> |   |
| LD50 Oral Rat   | > 10000 mg/kg                                 |
| <b>Iron oxide (Fe<sub>2</sub>O<sub>3</sub>) (1309-37-1)</b> |   |
| IARC Group  | 3   |
| <b>Sulfuric acid (7664-93-9)</b>                            |   |
| LD50 Oral Rat   | 2140 mg/kg                                    |
| LC50 Inhalation Rat   | 510 mg/m <sup>3</sup> (Exposure time: 2 h)    |
| ATE US (oral)   | 2,140.00 mg/kg body weight                    |
| ATE US (vapors)   | 510.00 mg/l/4h                                |
| ATE US (dust, mist)   | 510.00 mg/l/4h                                |
| <b>Sulfuric acid (7664-93-9)</b>                            |   |
| IARC Group  | 1   |
| OSHA Hazard Communication Carcinogen List                   | In OSHA Hazard Communication Carcinogen list. |

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

Ecology - General: Not classified.

|                                  |  |
|----------------------------------|--|
| <b>Sulfuric acid (7664-93-9)</b> |  |
| LC50 Fish 1                      | 500 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static]) |
| LC 50 Fish 2                     | 42 mg/l (Exposure time: 96 h - Species: Gambusia affinis [static])   |

### 12.2. Persistence and Degradability

|  |                  |
|--|------------------|
| <b>Ferrous Sulfate Heptahydrate, Moist</b> |                  |
| Persistence and Degradability              | Not established. |

### 12.3. Bioaccumulative Potential

|  |                  |
|--|------------------|
| <b>Ferrous Sulfate Heptahydrate, Moist</b> |                  |
| Bioaccumulative Potential                  | Not established. |

|                                  |                      |
|----------------------------------|----------------------|
| <b>Sulfuric acid (7664-93-9)</b> |                      |
| BCF Fish 1                       | (no bioaccumulation) |

### 12.4. Mobility in Soil

Not available

### 12.5. Other Adverse Effects

Other Information: Avoid release to the environment.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

**Waste Disposal Recommendations:** Dispose of contents/container in accordance with local, regional, national, provincial, territorial and international regulations.

**Additional Information:** Container may remain hazardous when empty. Continue to observe all precautions.

**Ecology – Waste Materials:** Avoid release to the environment.

## SECTION 14: TRANSPORT INFORMATION

- 14.1. In Accordance with DOT Not regulated for transport
- 14.2. In Accordance with IMDG Not regulated for transport
- 14.3. In Accordance with IATA Not regulated for transport
- 14.4. In Accordance with TDG Not regulated for transport

## SECTION 15: REGULATORY INFORMATION

### 15.1. US Federal Regulations

|  |                                 |
|--|---------------------------------|
| <b>Ferrous Sulfate Heptahydrate, Moist</b> |                                 |
| SARA Section 311/312 Hazard Classes        | Immediate (acute) health hazard |

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|   |  |
|---|--|
| <b>Iron oxide (Fe<sub>2</sub>O<sub>3</sub>) (1309-37-1)</b>               |  |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |  |
| <b>Sulfuric acid (7664-93-9)</b>  |  |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |  |
| Listed on the United States SARA Section 302                              |  |
| Subject to reporting requirements of United States SARA Section 313       |  |
| <b>SARA Section 302 Threshold Planning Quantity (TPQ)</b>                 | 1000   |
| <b>SARA Section 311/312 Hazard Classes</b>                                | Immediate (acute) health hazard<br>Delayed (chronic) health hazard                                     |
| <b>SARA Section 313 - Emission Reporting</b>                              | 1.0 % (acid aerosols including mists, vapors, gas, fog, and other airborne forms of any particle size) |


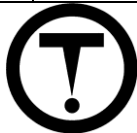
### 15.2. US State Regulations

|   |  |
|---|--|
| <b>Sulfuric acid (7664-93-9)</b>                                      |  |
| <b>U.S. - California - Proposition 65 - Carcinogens List</b>          | WARNING: This product contains chemicals known to the State of California to cause cancer. |
| <b>Ferrous sulfate heptahydrate (7782-63-0)</b>                       |  |
| U.S. - Massachusetts - Right To Know List                             |  |
| U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List |  |
| U.S. - Pennsylvania - RTK (Right to Know) List                        |  |

|   |  |
|---|--|
| <b>Iron oxide (Fe<sub>2</sub>O<sub>3</sub>) (1309-37-1)</b> |  |
| U.S. - Massachusetts - Right To Know List                   |  |
| U.S. - New Jersey - Right to Know Hazardous Substance List  |  |
| U.S. - Pennsylvania - RTK (Right to Know) List              |  |

|   |  |
|---|--|
| <b>Sulfuric acid (7664-93-9)</b>                                      |  |
| U.S. - Massachusetts - Right To Know List                             |  |
| U.S. - New Jersey - Right to Know Hazardous Substance List            |  |
| U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List |  |
| U.S. - Pennsylvania - RTK (Right to Know) List                        |  |

### 15.3. Canadian Regulations

|   |  |
|---|--|
| <b>Ferrous Sulfate Heptahydrate, Moist</b>  |  |
| WHMIS Classification  | Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects<br>Class D Division 2 Subdivision B - Toxic material causing other toxic effects |
|   |  |

|   |  |
|---|--|
| <b>Ferrous sulfate heptahydrate (7782-63-0)</b> |  |
| WHMIS Classification                            | Class D Division 2 Subdivision B - Toxic material causing other toxic effects<br>Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects |

|   |   |
|---|---|
| <b>Iron oxide (Fe<sub>2</sub>O<sub>3</sub>) (1309-37-1)</b> |   |
| Listed on the Canadian DSL (Domestic Substances List)       |   |
| Listed on the Canadian IDL (Ingredient Disclosure List)     |   |
| IDL Concentration 1 %                                       |   |
| WHMIS Classification  | Uncontrolled product according to WHMIS classification criteria |

|   |  |
|---|--|
| <b>Sulfuric acid (7664-93-9)</b>                        |  |
| Listed on the Canadian DSL (Domestic Substances List)   |  |
| Listed on the Canadian IDL (Ingredient Disclosure List) |  |
| IDL Concentration 1 %                                   |  |
| WHMIS Classification                                    | Class D Division 2 Subdivision A - Very toxic material causing other toxic effects<br>Class E - Corrosive Material |



# Ferrous Sulfate Heptahydrate, Moist

## Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

Class D Division 2 Subdivision B - Toxic material causing other toxic effects

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

### SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Revision Date** : 01/04/2016  
**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

#### GHS Full Text Phrases:

|                     |  |
|---------------------|--|
| Acute Tox. 4 (Oral) | Acute toxicity (oral) Category 4                               |
| Aquatic Acute 3     | Hazardous to the aquatic environment - Acute Hazard Category 3 |
| Comb. Dust          | Combustible Dust   |
| Eye Dam. 1          | Serious eye damage/eye irritation Category 1                   |
| Eye Irrit. 2A       | Serious eye damage/eye irritation Category 2A                  |
| Skin Corr. 1A       | Skin corrosion/irritation Category 1A                          |
| Skin Irrit. 2       | Skin corrosion/irritation Category 2                           |
| H232                | May form combustible dust concentrations in air                |
| H302                | Harmful if swallowed   |
| H314                | Causes severe skin burns and eye damage                        |
| H315                | Causes skin irritation   |
| H318                | Causes serious eye damage                                      |
| H319                | Causes serious eye irritation                                  |
| H402                | Harmful to aquatic life  |

#### Party Responsible for the Preparation of This Document

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*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

NA GHS SDS