# Safety Data Sheet

Version 4.00 Revised: 2026-09-09

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier**

**Product Name** Ferrous Sulfate, Heptahydrate

**Other means of identification**

**Product Code(s)** A2607

**Synonyms** No information available

**Product Use** For Laboratory Research Use Only.

**Supplier/Manufacturer**

Biomatik Corporation
4 Third Avenue
Kitchener, Ontario N2C 1N6
Canada

**Telephone Number** 1-519-489-7195

**E-mail Address** info@biomatik.com

Emergency Telephone Number 1-519-590-7717

## 2. HAZARDS IDENTIFICATION

**Classification**

**OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

| | |
|---|---|
| Acute Toxicity - Oral | Category 4 |
| Skin Corrosion/Irritation | Category 2 |
| Serious Eye Damage/Eye Irritation | Category 2 |

**Label elements**

**Emergency Overview**

**Warning**

**Hazard statements**

H302 - Harmful if swallowed
H315 - Causes skin irritation
H319 - Causes serious eye irritation



**Appearance** Blue-green **Physical State** Granular Powder **Odor** No information available

**Precautionary Statements - Prevention**
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product

**Precautionary Statements - Response**
Specific treatment (see .? on this label)
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
IF ON SKIN: Wash with plenty of water and soap
If skin irritation occurs: Get medical advice/attention
Take off contaminated clothing and wash it before reuse
IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell
Rinse mouth

**Precautionary Statements - Disposal**
Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**
Not regulated
**Other Information**

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS-No | EC No. | Weight % | Trade Secret |
|---|---|---|---|---|
| Ferrous sulfate heptahydrate | 7782-63-0 | - | 95-100 | Not applicable |

## 4. FIRST AID MEASURES

**First Aid Measures**

**Eye Contact** Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

**Skin Contact** Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.

**Inhalation** Move to fresh air. If not breathing, give artificial respiration.

**Ingestion** Clean mouth with water and afterwards drink plenty of water. Consult a physician.

**Most important symptoms and effects, both acute and delayed**

**Most Important Symptoms/Effects** No information available.

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**
Dry chemical, CO2, appropriate foam.

**Unsuitable Extinguishing Media** No information available.

**Specific Hazards Arising from the Chemical**
No information available.

**Hazardous Combustion Products** Sulfur oxides.

**Explosion Data**
**Sensitivity to Mechanical Impact** None.
**Sensitivity to Static Discharge** None.

**Protective Equipment and Precautions for Firefighters**
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal protection** Ensure adequate ventilation, especially in confined areas.

**Environmental Precautions**

**Environmental Precautions** See Section 12 for additional Ecological information.

**Methods and material for containment and cleaning up**

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for Cleaning Up** Avoid dust formation. Pick up and transfer to properly labeled containers. Ventilate area and wash spill site after material pickup is complete.

## 7. HANDLING AND STORAGE

**Precautions for Safe Handling**

**Handling** Handle in accordance with good industrial hygiene and safety practice. Protect from moisture.

**Conditions for safe storage, including any incompatibilities**

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture.

**Incompatible Products** Strong oxidizing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

**Exposure Guidelines** This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|---|---|---|---|
| Ferrous sulfate heptahydrate | - | - | - |

**Appropriate engineering controls**

**Engineering Measures** Showers
Eyewash stations
Ventilation systems.

**Individual protection measures, such as personal protective equipment**

**Eye/Face Protection** Tightly fitting safety goggles.

| | |
|---|---|
| **Skin and Body Protection** | Wear protective gloves/clothing. |
| **Respiratory Protection** | If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations. |
| **Hygiene Measures** | Handle in accordance with good industrial hygiene and safety practice. |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

| | | | |
|---|---|---|---|
| **Physical State** | Granular Powder | | |
| **Appearance** | Blue-green | **Odor** | No information available |
| **Color** | No information available | **Odor Threshold** | No information available |

| **Property** | **Values** | **Remarks • Method** |
|---|---|---|
| **pH** | No information available | |
| **Melting point/freezing point** | 57 °C | |
| **Boiling Point/Range** | >300 °C | |
| **Flash Point (High in °C)** | No information available | |
| **Evaporation Rate** | No information available | |
| **Flammability (solid, gas)** | No information available | |
| **Flammability Limit in Air** | | |
| **Upper flammability limit:** | No information available | |
| **Lower flammability limit:** | No information available | |
| **Vapor pressure** | No information available | |
| **Vapor Density** | No information available | |
| **Specific Gravity** | No information available | |
| **Water Solubility** | Very soluble in water | |
| **Solubility in other solvents** | No information available | |
| **Partition coefficient** | No information available | |
| **Autoignition Temperature** | No information available | |
| **Decomposition Temperature** | No information available | |
| **Kinematic viscosity** | No information available | |
| **Dynamic viscosity** | No information available | |
| **Explosive Properties** | No information available | |
| **Oxidizing Properties** | No information available | |

**Other Information**

| | |
|---|---|
| **Softening Point** | No information available |
| **Molecular Weight** | No information available |
| **VOC Content** | No information available |
| **Density** | 1.90 |
| **Bulk Density** | No information available |

## 10. STABILITY AND REACTIVITY

**Reactivity**
No data available

**Chemical Stability**
Stable under recommended storage conditions.
**Possibility of Hazardous Reactions** None under normal processing. **Conditions to Avoid**
Protect from moisture.
**Incompatible Materials**
Strong oxidizing agents.

**Hazardous Decomposition Products**
Sulfur oxides.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

**Product Information**

**Inhalation** There is no data available for this product.

**Eye Contact** Irritating to eyes.

**Skin Contact** Irritating to skin.

**Ingestion** Harmful if swallowed.

| Chemical Name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|---|---|---|---|
| Ferrous sulfate heptahydrate | - | - | - |

**Information on toxicological effects**

**Symptoms** No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Sensitization** No information available.
**Mutagenic Effects** No information available.
**Carcinogenicity** No information available.

| Chemical Name | ACGIH | IARC | NTP | OSHA |
|---|---|---|---|---|
| Ferrous sulfate heptahydrate | - | - | - | - |

**Reproductive Toxicity** No information available.
**STOT - single exposure** No information available.
**STOT - repeated exposure** No information available.
**Target Organ Effects** Liver, Gastrointestinal tract (GI).
**Aspiration hazard** No information available.

**Numerical measures of toxicity - Product Information**

**The following values are calculated based on chapter 3.1 of the GHS document** .

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

100% of the mixture consists of components(s) of unknown hazards to the aquatic environment

| Chemical Name | Algae/aquatic plants | Toxicity to Fish | Crustacea |
|---|---|---|---|
| Ferrous sulfate heptahydrate | - | - | - |

**Persistence and Degradability**
No information available.

**Bioaccumulation/Accumulation**
No information available.

| Chemical Name | Partition coefficient |
|---|---|
| Ferrous sulfate heptahydrate | - |

**Other Adverse Effects** No information available

## 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods**

**Waste Disposal Method** Dispose of material in accordance with all federal, state, and local regulations.

**Contaminated Packaging** Do not re-use empty containers.

| Chemical Name | RCRA | RCRA - Basis for Listing | RCRA - D Series Wastes | RCRA - U Series Wastes |
|---|---|---|---|---|
| Ferrous sulfate heptahydrate | - | - | - | - |

| Chemical Name | RCRA - Halogenated Organic Compounds | RCRA - P Series Wastes | RCRA - F Series Wastes | RCRA - K Series Wastes |
|---|---|---|---|---|
| Ferrous sulfate heptahydrate | - | - | - | - |

| Chemical Name | California Hazardous Waste Status |
|---|---|
| Ferrous sulfate heptahydrate | - |

## 14. TRANSPORT INFORMATION

**DOT** Not regulated

**IATA** Not regulated

## 15. REGULATORY INFORMATION

**International Inventories**

| | |
|---|---|
| **TSCA** | Complies |
| **DSL/NDSL** | Does not comply |
| **EINECS/ELINCS** | Does not Comply |
| **ENCS** | Complies |
| **IECSC** | Complies |
| **KECL** | Does not Comply |
| **PICCS** | Complies |
| **AICS** | Complies |

**Legend**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List
**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
**ENCS** - Japan Existing and New Chemical Substances
**IECSC** - China Inventory of Existing Chemical Substances
**KECL** - Korean Existing and Evaluated Chemical Substances
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances
**AICS** - Australian Inventory of Chemical Substances

**U.S. Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

| Component | SARA 313 - Threshold Values % |
|---|---|
| Ferrous sulfate heptahydrate | - |

**SARA 311/312 Hazard Categories**

| | |
|---|---|
| **Acute Health Hazard** | Yes |
| **Chronic Health Hazard** | No |
| **Fire Hazard** | No |
| **Sudden Release of Pressure Hazard** | No |
| **Reactive Hazard** | No |

**Clean Water Act**
This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

| Chemical Name | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|---|---|---|---|---|
| Ferrous sulfate heptahydrate | - | - | - | X |

**CERCLA**
This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

| Chemical Name | Hazardous Substances RQs | Extremely Hazardous Substances RQs | RQ |
|---|---|---|---|
| Ferrous sulfate heptahydrate | 1000 lb | - | RQ 1000 lb final RQ<br>RQ 454 kg final RQ |

## U.S. State Regulations

**California Proposition 65**
This product does not contain any Proposition 65 chemicals.

| Chemical Name | California Prop. 65 |
|---|---|
| Ferrous sulfate heptahydrate | - |

**U.S. State Right-to-Know Regulations**

| Chemical Name | New Jersey | Massachusetts | Pennsylvania |
|---|---|---|---|
| Ferrous sulfate heptahydrate | - | X | X |

**U.S. EPA Label Information**
**EPA Pesticide Registration Number** Not regulated

## 16. OTHER INFORMATION

**Disclaimer**
**The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.**

**End of Safety Data Sheet**