



Safety Data Sheet

SECTION 1: Identification

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| Product Name | | Ferrous Ammonium Sulfate Hexahydrate, ACS Reagent | |
| Other Identifiers | | Iron(II) Ammonium Sulfate Hexahydrate; 84410-23 | |
| Recommended Uses | | General Laboratory Reagent/Chemical. | |
| Uses Advised Against | | Not intended for drug, food or household use. | |
| Address | | 24-Hour Emergency Telephone | |
| SPEX CertiPrep, LLC 203 Norcross Ave. Metuchen, NJ 08840 USA | | CHEMTREC (USA) 800-424-9300 CHEMTREC (International) 1 + 730-527-3887 | |
| Telephone | | | |
| 1.732.549.7144 | | | |
| Website | | | |
| www.spex.com | | | |

SECTION 2: Hazard(s) Identification

Hazards not otherwise classified or covered by GHS

None identified.

Hazard Statements

This product is not categorized as hazardous in any GHS class.

SECTION 3: Composition / Information on Ingredients

| Component Name | Component Number CAS | Component Number EC | Component Weight % |
|--|----------------------|---------------------|--------------------|
| Iron (II) Ammonium Sulfate Hexahydrate | 7783-85-9 | 233-151-8 | 100 |

Safety Data Sheet

SECTION 4: First-Aid Measures

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| General Advice | Show this SDS to attending physician if medical treatment is needed. |
| Skin Contact | Rinse affected areas with plenty of water. If skin irritation develops, seek medical attention. |
| Eye Contact | Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. If irritation persists, seek medical attention. |
| Inhalation | Remove person to fresh air and keep comfortable for breathing. If breathing is difficult or labored, seek medical attention. |
| Ingestion | Rinse mouth. Seek medical attention if feeling unwell. |
| Symptoms/effects | The most important known symptoms/effects are described in Section 2 of this Safety Data Sheet. |
| Treatment | Treat symptomatically. |

SECTION 5: Fire-Fighting Measures

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| Extinguishing Media | Substance is not flammable, use agent most appropriate to extinguish surrounding fire (water, carbon dioxide, dry chemical, sand/earth, foam). |
| Specific Hazards | Thermal decomposition may produce toxic or irritating fumes. |
| Actions for Firefighters | Wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. |

SECTION 6: Accidental Release Measures

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| Precautions and Procedures | Ensure adequate ventilation. Use personal protective equipment as required. Evacuate unprotected personnel to safe areas. Keep people away from and upwind of spill/leak. |
| Environmental Precautions | As with any chemical, avoid release to the environment for the responsible stewardship of our planet. |
| Containment and Clean Up | Avoid dust formation. Sweep up or vacuum material and place in a suitable lidded container for disposal. |

Section 7: Handling and Storage

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| Handling | Follow good hygiene procedures when handling chemical materials. Avoid contact with skin, eyes and clothing. Do not eat, drink, smoke or use personal items when handling chemical substances. As a general practice, wear gloves and eye protection when handling chemical substances. |
| Storage | Keep containers tightly closed in a cool, dry and well-ventilated place. Protect from freezing and physical damage. Store separately from incompatible materials. |

Section 8: Exposure Controls / Personal Protection

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| Engineering Controls | As part of safe chemical handling, emergency eye wash fountains and safety showers should be available in handling areas. Provide sufficient ventilation measures to keep the airborne concentration below the applicable workplace exposure limits. |
| Exposure Limits | PNOR PEL-TWA 15 mg/m ³ (total dust) US-OSHA |
| Exposure Limits | PNOR TWA 5 mg/m ³ (respirable fraction) US-OSHA |
| Eye Protection | As part of good industrial hygiene, wear safety glasses with side shields or safety goggles. Wear face shield if there is risk of splashes. |
| Skin Protection | As a general practice, wear chemical resistant gloves when handling chemical substances. |
| Respiratory Protection | In general, special respiratory protection is not required and normal ventilation is expected to be adequate for safe handling under normal conditions of use. |

Section 9: Physical and Chemical Properties

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|-----------------------------------|------------------------|
| Physical State | Solid |
| Appearance/Color | Pale green |
| Odor | Faintly metallic |
| Odor Threshold | Data not available. |
| Melting/Freezing Point | 100-110°C (decomposes) |
| Boiling Point/Range | Data not available |
| Flammability | Not flammable |
| Flammable/Explosive Limits | Not applicable |
| Flash Point | Not applicable |
| Auto-Ignition Temperature | Not applicable |
| Decomposition Temperature | 100-110°C |
| pH | Data not available |
| Viscosity | Not applicable |

Safety Data Sheet

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| Solubility (in water) | 269 g/L at 20°C |
| Partition Coefficient (n-octanol/water) | Data not available |
| Relative Density | 1.864 |
| Vapor Pressure | < 1 Pa at 25°C |
| Vapor Density | Not applicable |
| Evaporation Rate | Not applicable. |
| Particle Characteristics | Data not available |

Section 10: Stability and Reactivity

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|--------------------------------|--|
| Reactivity | Based on available data, no reaction hazards have been identified. |
| Chemical Stability | Stable under normal conditions of handling and storage. |
| Hazardous Reactions | Based on available data, no reaction hazards have been identified that would occur during normal handling and storage. |
| Conditions to Avoid | Avoid contact with incompatible materials. |
| Incompatible Materials | Data not available. |
| Hazardous Decomposition | Heating may produce iron oxides, nitrogen oxides and sulfur oxides. |

Section 11: Toxicological Information

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|------------------------------------|--|
| Acute Toxicity - Oral | LD50 (rat) 3250 mg/kg |
| Acute Toxicity - Dermal | The toxicological data is limited or unavailable. |
| Acute Toxicity - Inhalation | The toxicological data is limited or unavailable. |
| Skin Corrosion/Irritation | This material is not expected to cause skin irritation under normal conditions. |
| Eye Damage/Irritation | This material is not expected to cause eye damage or irritation under normal usage conditions. |
| Respiratory Sensitization | Not expected to cause respiratory sensitization. |
| Skin Sensitization | Not expected to cause skin sensitization. |
| Germ Cell Mutagenicity | The genotoxicity properties have not been fully investigated. Data is unavailable, limited or inconclusive. |
| Carcinogenicity | This material has not been identified as a carcinogen by IARC or NTP. |
| Reproductive Toxicity | The reproductive toxicity properties have not been fully investigated. Data is unavailable, limited or inconclusive. |
| STOT Single Exposure | None known. |
| STOT Repeated Exposure | None known. |
| Aspiration Hazard | This substance is not considered to be an aspiration hazard. |
| Other Information | The toxicological properties have not been fully investigated. Data is unavailable, limited or inconclusive. |

Section 12: Ecological Information

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|-------------------------------------|---|
| Toxicity Values | Does not meet the criteria of ecotoxin. |
| Persistence/Biodegradability | Data is not available for this substance that does not meet the criteria of ecotoxin. |
| Bioaccumulation Potential | Data is not available for this substance that does not meet the criteria of ecotoxin. |
| Mobility in Soil | Data is not available for this substance that does not meet the criteria of ecotoxin. |
| Other Adverse Effects | None known. |

Section 13: Disposal Considerations

Discharge, treatment, or disposal may be subject to national, state, regional or local laws. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Since emptied containers retain product residue, follow label warnings even after container is emptied. Dispose in accordance with national, state, regional and local regulations.

Section 14: Transport Information

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| Proper Shipping Name, Hazard Class | NOT REGULATED. |
| Marine Pollutant | Not classified as a marine pollutant. |

Section 15: Regulatory Information

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| USA TSCA | On or in compliance with the inventory. |
| USA SARA 302/304 | Ferrous ammonium sulfate, TPQ 4540 kg (10,000 lbs) RQ 454 kg (1000 lbs) |
| USA SARA 311/312 | Ferrous ammonium sulfate |
| USA SARA 313 (TRI) | Does not apply. |
| Canada DSL/NDSL | On or in compliance with DSL. |
| California Proposition 65 | This product contains no substances on the list. |

Section 16: Other Information

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| Acronyms | ACGIH | American Conference of Governmental Industrial Hygienists (USA) |
| | ATE | Acute Toxicity Estimate (calculated toxicity value) |
| | BCF | Bioconcentration Factor |
| | CERCLA | Comprehensive Environmental Response, Compensation and Liability Act (USA) |
| | DOT | Department of Transportation (USA) |
| | DSL | Domestic Substances List (Canada) |
| | EHS | Extremely Hazardous Substance |
| | EPA | Environmental Protection Agency (United States) |
| | GHS | Globally Harmonized System |
| | IARC | International Agency for Research on Cancer |
| | IDLH | Immediately Dangerous to Life and Health |
| | NTP | National Toxicology Program (USA) |
| | OSHA | Occupational Safety and Health Administration (USA) |
| | PEL | Permissible Exposure Limit |
| | PNOR | Particulates Not Otherwise Classified |
| | PPE | Personal Protective Equipment |
| | ppb | Parts per billion |
| | ppm | Parts per million |
| | RQ | Reportable Quantity |
| | SARA | Superfund Amendments and Reauthorization Act (USA) |
| | TLV | Threshold Limit Value |
| | TPQ | Threshold Planning Quantity |
| | TRI | Toxic Release Inventory (USA) |
| | TSCA | Toxic Substances Control Act (USA) |
| | TWA | Time Weighted Average |
| | UN | United Nations |

Revision Date 03/30/22 **Issue Date:** 3/30/2022

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing SDS: product safety department

Contact: SPEX CertiPrep, LLC. 1-732-549-7144