



Canadian Agri Products(USA) Corp.

Chemicals to Trade, Experience to Remember

## Material Safety Data Sheet

### MAPLE FERROUS SULPHATE MONOHYDRATE

<b>1. Product identity</b>	Product Name : Ferrous Sulphate Monohydrate Chemical Formula : $\text{FeSO}_4 \cdot \text{H}_2\text{O}$ Molecular Weight : 249.68 CAS # : 17375-41-6 (monohydrate) : 7720-78-7 (Anhydrous)
<b>2. Composition</b>	<u>Substance</u> Ingredients : Ferrous Sulphate Monohydrate % By Weight : 90-100% (as $\text{FeSO}_4 \cdot \text{H}_2\text{O}$ ) CAS No. : 17375-41-6 (monohydrate) Classification : Not regulated (China GB 12268-2005)
<b>3. Hazardous Identification</b>	Hazard Class : Not regulated by China GB 12268-2005 Routes of Entry : Inhalation, ingestion, eye contact. Health Hazards : May be harmful by inhalation, ingestion, irritating to eyes. Environmental Hazards : Not regulated Fire/Explosion Hazards : Not classified as fire and explosion hazards.
<b>4. First Aid Measure</b>	Skin : Take off contaminated clothing and flush eyes with plenty of water. Eyes : Flush eyes with plenty of water for at least 15 mins. Seek medical attention. Ingestion : Induce vomiting as directed by physician. Never give anything by mouth to an unconscious person. Seek medical attention. Inhalation : Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a Physician.
<b>5. Fire-Fighting Measures</b>	Extinguishing Media : This product does not burn or support combustion. Use extinguishing media appropriate for surrounding fire. Hazards : This product is non-flammable. Protection : Wear a self-contained breathing apparatus with a full face piece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment.



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<p><b>6. Accidental Release Measures</b></p>	<p>Personal Precautions : Wear protective equipment to prevent skin and eye contamination and inhalation of dust.</p> <p>Environmental Precautions: Prevent entry into sewers or streams and other water bodies.</p> <p>Disposal Methods : Use appropriate tools to put the spilled material into a sealed container and hold for reuse or later disposal.</p>
<p><b>7. Handling and Storage</b></p>	<p>Handling : Avoid breathing dust. Avoid contacting skin, eyes and clothing. Use adequate ventilation. No smoking, eating and drinking water at workplace. Avoid prolonged or repeated exposure.</p> <p>Storage : Store in a dry place, keep away from conditions of high temperature and moisture. Avoid physical damages. Do not use this product if coated with brownish-yellow.</p> <p>Precautions : Please pay attention to Section 10 CONDITIONS TO AVOID &amp; MATERIALS TO AVOID.</p>
<p><b>8. Exposure Control</b></p>	<p>Exposure Limits : China (GBZ 2-2002) : No data for Ferrous Sulfate ACGIH TReshold Limit Value (TLV): 1mg/m<sup>3</sup> (TWA) soluble iron salt as Fe</p> <p>Engennieering Control : Use adequate exhaust ventilation to keep airborne concentrations below the allowable exposure limits.</p> <p>Respiratory Protection : Dustproof respirators</p> <p>Hand Protection : Protective gloves</p> <p>Eye Protection : Safety glasses. Use goggles.</p> <p>Skin and Body Protection : Resistant protective clothing.</p> <p>Hygiene Precautions : No smoking, eating and drinking water at workplace. Washing hands before eating. Taking bath after work.</p>
<p><b>9. Physical and Chemical Properties</b></p>	<p>Physical State : Solid</p> <p>Colour : Light grey to offwhite or white</p> <p>Odour : Odourless</p> <p>pH Value : 3.0-5.0</p> <p>Melting Point : N/A</p> <p>Boiling Point : N/A</p> <p>Decomposition Temperature : N/A</p> <p>Flash Point : N/A</p> <p>Auto Ignition Temperature : N/A</p> <p>Explosion properties : No explosion property</p> <p>Vapour Pressure : N/A</p>



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	<p>Vapour Density (Air=1) : N/A  Density/Specific Gravity (Water=1) : 2.97  Solubility : Easily soluble in water  Octanol/Water Partition Coefficient : N/A</p>
<b>10. Stability and Reactivity</b>	<p>Stability : Stable  Conditions to Avoid : High temperature, moisture.  Material to Avoid : Alkalis, soluble carbonates and oxidizing materials.  R : Reacts in moist air to form Ferric sulfate  Hazardous Polymerization : Will not occur.  Hazardous Decomposition Products : May produce oxides of iron and/or sulphur.</p>
<b>11. Toxicological Information</b>	<p>Acute Toxicity : Acute Oral LD50 : Not available  Acute Dermal LD50 : Not available  Acute Inhalation LC50 : Not available  Eyes : Pain, redness  Skin : Mild skin sensitizer, redness.  Ingestion : Nausea, vomiting, diarrhoea  Inhalation: Cough, pain, shortness of breath, etc.  Chronic exposure : Chronic ferrous sulphate poisonings may damage blood vessels. Large chronic doses cause rickets in infants. Chronic exposure may cause liver effects. Prolonged exposure to eye may cause discoloration.  Teratogenicity : N/A  Production Toxicity : N/A  Mutagenicity : N/A  Carcinogenicity : Not listed as a suspected / confirmed carcinogen by IARC, NTP.</p>
<b>12. Ecological Information</b>	<p>Overview : Don't allow undiluted product or large quantities to penetrate into ground water, water bodies or sewage system.  Biodegradability : N/A  Ecotoxicity : N/A</p>
<b>13. Disposal Considerations</b>	<p>Methods of Disposal : Dispose of according to all applicable governments' regulation.  Contaminated Packaging : Empty packaging should be recycled or disposed of through an approved waste management facility.</p>
<b>14. Transport Information</b>	<p>Proper Shipping Name : Not regulated  UN No. : N/A  Hazard Class : N/A  Packing Group : N/A</p>



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	Marine Pollutant : No
<b>15. Regulatory Information</b>	China: Not listed as hazardous goods in GB 12268-2005 International: Please pay attention to any applicable national regulations as to the hazard and safety information of this product.

*THE INFORMATION IN THIS MSDS RELATES TO THIS SPECIFIC MATERIAL. IT MAY NOT BE VALID FOR THIS MATERIAL IF USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS. IT IS THE USERS' RESPONSIBILITY TO SATISFY THEMSELVES AS TO THE SUITABILITY AND COMPLETENESS OF THIS INFORMATION FOR THEIR OWN PARTICULAR USE.*

All non-emergency questions should be  
Directed to Customer Service at

**972-403-7444**

**24 hour emergency Telephone: Chemtrec 800-424-9300**  
**National response in Canada: Canutec 613-996-6666**  
**Outside US & Canada: Chemtrec: 202-483-7616**

Note: Chemtrec and Canutec emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, exposure or accident involving chemicals.