

# MATERIAL SAFETY DATA SHEET



Chemifloc Ltd

## FERROUS SULPHATE

SECTION 1 IDENTIFICATION	
Trade Marks and Synonyms (if any) <b>Iron (II) Sulphate</b> <b>Copperas</b>	Chemical Names and Synonyms <b>Ferrous Sulphate</b>
Physical Form <b>Blue Green Crystals</b>	Molecular Formula <b>FeSO<sub>4</sub>.7H<sub>2</sub>O</b>
Responsible Person : <b>Chemifloc Ltd,</b> <b>Smithstown Ind. Estate,</b> <b>Shannon,</b> <b>Co. Clare.</b> <b>+353 61-708650</b>	Emergency Telephone : <b>Chemifloc Ltd,</b> <b>+353 61-708650</b>

SECTION 2 INFORMATION ON INGREDIENTS		
Ingredients	Classification	CAS No.
<b>Ferrous Sulphate Iron 95-100%</b>	<b>Irritant</b>	<b>7720-78-7</b>

SECTION 3 HAZARDS IDENTIFICATION
<b>May cause irritation to skin, eyes and respiratory system. Affects the liver.</b>
Occupational Exposure Limit (OEL) <b>Respirable Iron Salts (as Iron)1mg/m<sup>3</sup>(8hr TWA)</b>

SECTION 4 PHYSICAL AND CHEMICAL PROPERTIES			
Appearance and Odour : <b>Blue Green crystals</b>			
pH		Conc:	
Boiling Point <b>&gt;300°C</b>	Melting Point <b>57°C loses water</b>	Flash Point <b>N/A</b>	Specific Gravity <b>1.90</b>
Autoignition <b>N/A</b>	Flammable Limit (% by Vol. in Air) <b>0</b>	Vapour Pressure (mm Hg) <b>N/A</b>	
Solubility in Water <b>Soluble</b>	Solubility in Other Solvents <b>Not Specified</b>	Oxidising Properties <b>None</b>	

## SECTION 5 STABILITY AND REACTIVITY

Stability	Unstable		Conditions to Avoid <b>High temperatures, exposure to moisture</b>
	Stable	<b>X</b>	

Incompatibility (Materials and Conditions to Avoid)  
**Incompatible with oxidising agents, soluble carbonates and alkalis.**

Hazardous Decomposition Products  
**Could emit highly toxic oxides of sulphur when heated to decomposition.**

## SECTION 6 TOXICITY DATA

Short term effects of over exposure when :

In contact with skin : **Repeated and / or prolonged contact may cause irritation.**

In contact with eyes : **May cause eye irritation.**

Inhaled : **High concentrations of mist may be irritant to the respiratory tract.**

Ingested : **May cause irritation of the gastrointestinal tract.**

Long Term Exposure : **No known hazards associated with material.**

## SECTION 7 FIRST AID MEASURES

Skin Contact : **Remove contaminated clothing and wash affected area with copious quantities of water. Contaminated clothing should be laundered before re-use.**

Eye Contact : **Irrigate with eyewash solution or water holding the eyelids apart for at least ten minutes. Seek medical attention.**

Inhalation : **Remove patient to fresh air, keep warm and at rest. Obtain medical attention if ill effects occur.**

Ingestion : **Do not induce vomiting.  
Provided patient is conscious wash out mouth with water and give 5% sodium bicarbonate solution followed by a demulcent such as milk.**

Further Medical Advice : **If in doubt seek medical attention.**

<b>SECTION 8</b>		<b>FIRE AND EXPLOSIVE HAZARD DATA</b>	
Would any material saturated with this product be subject to spontaneous combustion ?	<b>YES</b>		Materials :
	<b>NO</b>	<b>X</b>	
Fire Extinguishing Data <b>Normal extinguishing media</b>			
Fire Fighting Protective Equipment <b>Wear full protective clothing and breathing apparatus.</b>			
Unusual Fire and Explosive Hazards <b>Non - Combustible</b>			

<b>SECTION 9</b>		<b>PERSONAL PROTECTION</b>	
General Precautions :		<b>Eye and skin protection should be used when handling Ferrous Sulphate. Wear dust mask/respirator. (TLV=1mg/m<sup>3</sup> Fe)</b>	
Ventilation Requirements : <b>Provide adequate ventilation</b>		Respiratory Protection : <b>Wear dust mask.</b>	
Protective Clothing <b>Gloves and overalls should be worn</b>		Eye protection : <b>Goggles or full face mask</b>	

<b>SECTION 10</b>		<b>HANDLING AND STORAGE</b>	
Handling :		<b>Avoid contact with skin and eyes. Avoid inhalation. Keep away from oxidising agents and alkalis.</b>	
Storage :		<b>Protect from high temperatures (+25°C)</b>	

<b>SECTION 11</b>		<b>SPILLAGE/ACCIDENTAL RELEASE</b>	
Small Spillage :		<b>Wash away with large quantities of water.</b>	
Large Spillage :		<b>Neutralise with Lime or Soda Ash then dispose of according to Local Regulations. Water can be used if washings can go to drain. Inform local authority immediately if product enters public waterways</b>	
Personal Precautions :		<b>Wear full protective clothing including breathing apparatus.</b>	
Neutralising Chemicals :		<b>Hydrated Lime or Soda Ash.</b>	

<b>SECTION 12</b> <b>WASTE DISPOSAL</b>
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<b>Neutralise with Lime and landfill in accordance with local regulations.</b>
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<b>SECTION 13</b> <b>ENVIRONMENTAL INFORMATION</b>
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Environmental Fate and Distribution

**Low tonnage material used in open systems.  
The substance is predicted to have high mobility in soil.  
The substance is soluble in water.**

Persistence and Degradation

**No information available.**

Effect on Effluent Treatment

**Large discharges may contribute to the acidification of water and soil and will injure aquatic life and soil micro - organisms.**

Toxicity

**This product is used in effluent systems (both biological and physiochemical systems) to enhance settlement and remove metals. Overdosing may have a harmful effect on effluent treatment systems.**

<b>SECTION 14</b> <b>REGULATORY INFORMATION</b>
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EEC Classification :	Hazard Symbol :
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Risk Phrases :

**Not classified as hazardous to users**

Safety Phrases :

<b>SECTION 15</b> <b>TRANSPORT INFORMATION</b>
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UN No.	N/A	UN Pack. Group	ICAO/IATA Class
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IMDG Class	ADR/RID Class	ADR/RID Item
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<b>SECTION 16</b> <b>OTHER INFORMATION</b>
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The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release, and is not to be considered 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 materials or in any process unless specified in the text.