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29/11/11

## SAFETY DATA SHEET

Trade Name:	Sulphate of Iron
Analysis:	FeSO <sub>4</sub> · 7 H <sub>2</sub> O
Product Description:	Copperas Crystal, Green Vitriol
EEC Classification:	R22 Harmful if swallowed.
Safety Phrase:	S24/S25. Avoid contact with skin and eyes.

### PHYSICAL PROPERTIES

Form:	Damp crystals with no perceptible odour.
Colour:	Blue/Green
Bulk Density:	Approx. 0.95 Kg/litre
Solubility:	Soluble in water

### CHEMICAL & THERMAL PROPERTIES

Chemical Properties:	Stable under normal storage and handling conditions.
Effects of Heat & Fire:	Avoid high temperatures – could emit highly toxic oxides of sulphur when heated to decomposition.
Explosive Behaviour:	Not applicable.



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## FIRE FIGHTING

When the fertiliser is not directly involved in the fire use the best means available to control the fire. When the fertiliser is involved: ♦ Avoid breathing the fumes, if possible wear approved breathing apparatus ♦ Call the Fire Brigade ♦ Open doors and windows to give maximum ventilation ♦ Use plenty of water ♦ Do not allow molten fertiliser to run into drains. If water containing fertiliser enters drain or water course inform the water authority as soon as possible.

NOTE ALSO FIRST AID PRECAUTIONS.

## HEALTH HAZARDS

General:	Of low toxicity but the following should be noted.
Skin Contact:	Repeated and/or prolonged contact may cause irritation.
Eye Contact:	Irritates immediately and could cause severe damage which could lead to permanent visual defects or even total loss of vision.
Ingestion:	Harmful if swallowed.
Inhalation:	High concentration of dust may be irritating to trachea and lungs.
Long Term Effects:	Ferrous Sulphate has a long history of use, including iron pills for the treatment of anaemia. It is regarded as a skin and eye irritant for handling purposes.
Occupation Exposure Limit:	LEL 5mg / M <sub>3</sub> STEL 10mg / M <sub>3</sub> . (AS FeSO <sub>4</sub> · 7 H <sub>2</sub> O)



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## FIRST AID

Skin Contact:	Wash affected area with water.
Eye Contact:	Immediately irrigate with water for at least ten minutes, seek medical attention.
Ingestion:	Provided patient is conscious wash out mouth with water and give 5% sodium bicarbonate solution followed by a demulcent such as milk.
Inhalation:	Remove to fresh air and seek medical attention.
Further Medical Advice:	If in doubt seek medical attention.

**OBTAIN MEDICAL ADVICE IF ANY OF THE ABOVE SYMPTONS PERSIST**

**OBTAIN MEDICAL ADVICE IF SYMPTONS PERSIST**

## PRECAUTIONS FOR STORAGE, HANDLING & USE

- Eye and skin protection should be used when handling Ferrous Sulphate.
- Respiratory protection is not normally required unless OEL could not be exceeded when an approved dust mask should be worn.
- Gloves and overalls should be worn.
- Goggles are advisable.

### Storage:

Material should be stored in a dry and reasonably temperatured area, preferably below 24 °C to prevent chances of caking. Material may dehydrate in warm conditions producing an airborne dust.

### Use:

Use in accordance with manufacturers advice. Do not exceed recommended rates of application.



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## TRANSPORT

No special precautions.

## SPILLAGE

Small:

Wash away with large quantities of water, or sweep up and place in receptacle for future disposal.

Large:

Sweep up and remove to properly designated landfill.

## WASTE DISPOSAL

Transfer to containers and dispose of according to local regulations.

## USER RESPONSIBILITY

This safety data sheet provides health and safety information. The product is to be in applications consistent with company advice. Individuals handling this product should be informed of the recommended safety precautions and should have access to this information. Please consult company sales office for any further advice. To the best of the company's knowledge the information contained in this data sheet is correct at the time of publication. The user should contact the company for updated advice and in any event must be satisfied that the product is entirely suitable for its intended use. The company accepts no liability for any loss or damage resulting from reliance on this information.

