

# THOMAS ELLIOTT FERTILISERS SAFETY INFORMATION SHEET

Date of Issue: February 2004

Revision: June 2011

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

**Name of Product:** FERROUS SULPHATE  
**Synonyms:** Iron Sulphate, Iron (II) Sulphate, Sulphate of Iron, Dried Copperas

**Use of the Substance/Preparation:** fertiliser

**Manufacturer/Distributor:** Thomas Elliott Limited  
Selby Place  
Stanley Industrial Estate  
Skelmersdale  
Lancashire WN8 8EF  
Tel: +44 (0) 1522 811981 Fax: +44 (0) 1522 810238

**Emergency Contact:** Tel: +44 (0) 1522 811981 (Office Hours)

## 2. HAZARDS IDENTIFICATION

**Classification:** Harmful if swallowed. Irritating to eyes and respiratory system. Mild skin irritant.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Formulation Type:

HAZARDOUS INGREDIENT	CAS No	EC No	WEIGHT, %	SYMBOL	RISK PHRASES
Ferrous Sulphate	07782-63-0	231-753-5	98	Xn (Harmful)	R22

## 4. FIRST AID MEASURES

**Skin Contact:** Wash with plenty of soap and water.

**Eye Contact:** Wash out with water for several minutes. Seek medical advice if irritation persists.

**Ingestion:** Rinse out mouth (do not swallow) and give water or milk to drink. Seek medical attention if significant quantities are involved.

**Inhalation:** Remove to fresh air. Keep warm and at rest. Seek medical attention if irritation persists.

## 5. FIRE FIGHTING MEASURES

**Extinguishing Media:** As appropriate for the surrounding fire.

**Additional Information:**

**Special Protective Equipment:** Use breathing apparatus, boot and PVC gloves. Toxic and corrosive fumes of oxides of sulphur may be produced.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Wear suitable protective clothing appropriate to the amount involved, which may include eye/face protection, PVC or synthetic rubber gloves, personal respiratory protection.

**Environmental precautions:** Do not allow to enter public sewers and watercourses. If this cannot be avoided, inform the authority.

**Spillages:** Sweep up and place into a suitable closed containers for disposal according to item 13.

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## 7. HANDLING & STORAGE

**Handling:** Minimise contact with skin. Do not breathe dust.  
**Storage:** Store in a cool, dry place away from fertilisers, food and feeding stuffs.

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## 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Where prolonged or repeated exposure is likely, protective clothing should be worn, including eye protection and PVC or synthetic rubber gloves. Wear an approved dust respirator if airborne dust concentrations are liable to exceed limits. Wash hands and exposed skin before meals and after work. Do not eat, drink or smoke whilst handling the product.

EXPOSURE LIMITS – OES: 1 mg/m<sup>3</sup> as Fe  
(HSE Guidance Note EH40).

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## 9. PHYSICAL & CHEMICAL PROPERTIES

Appearance	green/blue crystals
Odour	none
pH	3 (10% in water)
Boiling point	decomposes above 600°C
Melting point	loses above 64°C
Flash point	not relevant
Auto-ignition temperature	not combustible
Explosive properties	not explosive
Oxidising properties	not oxidising
Vapour pressure	not applicable
Relative density	2.2
Bulk density	1000 kg/m <sup>3</sup>
Viscosity	not relevant
Solubility	soluble in water
Partition coefficient	no data
Other data	

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## 10. STABILITY & REACTIVITY

**Stability:** stable under normal conditions of use. Loses water progressively from 64-300°, then decomposes above 600° giving off corrosive sulphur trioxide.

**Conditions to Avoid:**

**Materials to Avoid:**

**Hazardous Decomposition Products:**

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## 11. TOXICOLOGICAL INFORMATION

LD<sub>50</sub> 1480 mg/kg. LD<sub>50</sub> (mouse, oral): 1530. Essential nutrient – maximum allowable intake 4g/day

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## 12. ECOLOGICAL INFORMATION

MOBILITY: mobile – soluble in water  
DEGRADABILITY: oxidises and becomes fixed as oxide/hydroxide  
ACCUMULATION: no potential for bioaccumulation or biomagnification.  
ECOTOXICITY: not ecotoxic. Used for remediation of eutrophic water.

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## 13. DISPOSAL CONSIDERATIONS

DISPOSAL OF PRODUCT: landfill or controlled incineration in accordance with local or national legislation.  
DISPOSAL OF PACKAGING: cleaned packaging: as for product.

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## 14. TRANSPORT INFORMATION

UN No: none assigned  
Proper Shipping Name:  
ADR/RID: not classified as hazardous  
IMCO: not classified as hazardous  
IATA/IACO: not classified as hazardous  
PACKING GROUP:  
LABEL: none

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## 15. REGULATORY INFORMATION

CLASSIFICATION: Harmful  
LABEL INFORMATION: Safety Phrases – S24/25. Avoid contact with skin and eyes.

Refer to relevant legislation, such as the Health and Safety at Work Act etc (HSWA), the Control of Substances Hazardous to Health Regulations (COSHH), the Environment Protection Act and the control of Pollution Act.

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risk as required by health and safety legislation.

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## 16. OTHER INFORMATION

The information contained in this data sheet is to the best of our knowledge accurate at the data of publication, but we cannot accept responsibility that is sufficient or correct in all cases.

The data contained herein does not constitute a specification. Such information is available from the technical data sheet for the product.

*Abbreviations: OES – occupational exposure standard. STEL – short term exposure limit. LTEL – long term exposure limit. TWA – time weighted (8 hour) average. LEL – lower explosive limit. UEL – upper explosive limit.*

The classification of this preparation was carried out in accordance with directive 1999/45/EC and subsequent amendments modified by directive 2006/08/EC, taking account the directive 67/548/EC (Dangerous substances) modified by directive 2004/73/EC and Regulation (EC) 1907/2006 (REACH).