

Safety data sheet

Ferrous Sulphate

Morton Smith-Dawe
LIMITED




UPDATED: 9 April 2015

Section 1: SUBSTANCE IDENTIFICATION AND SUPPLIER

Product Name:	Ferrous Sulphate (Sulphate of Iron)
Other Names:	Sulfuric acid, iron (II) salt heptahydrate
Chemical Formula:	FeSO ₄ 7H ₂ O
Recommended Use:	Fertiliser
Company Identification:	Morton Smith-Dawe Ltd
Address:	396 Wigram Road, Halswell, Christchurch PO Box 37-139, Halswell, Christchurch
Telephone Number:	03 322 8117
National Poisons Information Centre:	0800 POISON (0800 764 766)
Emergency Phone Number:	0800 CHEMCALL (0800 243 622) (24hr) (Emergencies Only)
Transport Emergency Phone Number:	111 - tell operator what service is needed: Fire, Ambulance or Police

Section 2: HAZARD IDENTIFICATION

Hazard Classifications:	6.1D, 6.3A, 6.4A, 9.1D, 9.3C	
Priority Identifiers:	DANGER KEEP OUT OF THE REACH OF CHILDREN	
Secondary Identifiers:	6.1D = May be harmful if swallowed, inhaled or absorbed through the skin 6.3A = Causes skin irritation. 6.4A = Causes serious eye irritation. 9.1D = Slightly harmful to aquatic life 9.3C = Harmful to terrestrial vertebrates	



DANGER

Section 3: COMPOSITION INFORMATION

INGREDIENT	CAS No.	CONTENT
Ferrous Sulphate	7782-63-0	100%

Section 4: FIRST AID MEASURES

First Aid Measures:	Consult the National Poisons Centre on 0800 POISON (0800 764 766) or a doctor immediately in every case of suspected poisoning.
Inhalation:	Remove to fresh air. Keep at rest in comfortable position for breathing. Seek medical advice.
Ingestion:	Never give anything by mouth to an unconscious person. Rinse mouth but DO NOT induce vomiting. Seek medical advice.
Skin:	Wash affected area thoroughly with soap and water
Eye:	Flush with plenty of water for several minutes, holding eyelids open if necessary. Remove contact lenses if present and easy to do. Seek medical advice.
Advice to Doctor:	Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

Flash Point:	N/A
Hazardous Combustion Products:	Non-combustible. Decomposes on heating to form sulphur oxides
Extinguishing Media:	Based on surrounding materials.
Protective Equipment:	Breathing apparatus, goggles and protective gloves.
HAZCHEM Code:	None allocated.

Section 6: ACCIDENTAL RELEASE MEASURES

Spills and Disposal:	Wear appropriate protective clothing. Exclude non-essential people from the area. Contain spill and sweep up. Collect and place in sealable containers. Avoid generating dust. Reuse or recycle where possible.
Protective Clothing:	For appropriate personal protective equipment see section 8.
Environmental	Avoid unintended release of excessive amounts into waterways or sewers. If spill does enter waterway contact local authority.

Section 7: HANDLING AND STORAGE

Handling:	Avoid generating dusts, do not breathe dusts. Approved Handler: Not required Tracking: Not required Record Keeping: Not required
Storage:	Store in a cool, dry area.
Other Information:	Avoid unintended release into the environment.

Section 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Exposure Limits:	Workplace Exposure Standards (WES): <i>Particulates not otherwise classified:</i> Inspirable dust: 10mg.m ⁻³ Respirable dust: 3mg.m ⁻³
Protective Equipment:	Overalls, safety glasses and gloves. If dust is present wear a dust mask and goggles. Eye wash facilities should be available.
Engineering Controls:	Handle in well-ventilation area. If dust generated use local extraction to control. Avoid inhalation of dust.
Hygiene Precautions:	Remove protective clothing and wash hands and face before meals and after work

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Green or brown
Format:	Crystals
Odour:	Odourless
Specific Gravity:	1.89g/cm ³
Bulk Density:	1040kg/m ³
pH:	3-4 (50g/l in water at 20 °C)
Solubility in Water:	256g/l at 20°C
Boiling Point:	
Melting Point:	>300°C (decomposes); releases crystalline water above 64°C
Other Information:	None

Section 10: STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Hazardous Polymerisation:	Will not occur.
Hazardous Decomposition Products:	Decomposes on heating to form sulphur oxides.
Conditions to Avoid:	Strong heat, moisture.
Materials to Avoid:	Alkalis, soluble carbonates, sodium borate and oxidizing agents.

Section 11: TOXICOLOGICAL INFORMATION

Hazard Classifications:	6.1D, 6.3A, 6.4A
Ingestion:	Ingestion of large quantities. May lead to dizziness, nausea, vomiting, diarrhea and thirst.
Inhalation:	Slight Irritant. Over exposure may cause mucous membrane irritation and coughing.
Skin:	Irritant. Prolonged and repeated skin exposure may result in irritation, skin rash.
Eye:	Irritant. Exposure to dusts may result in irritation lachrymation (tears), pain, redness and conjunctivitis.
Chronic Effects:	Not anticipated
Other Information:	Low toxicity, no adverse health effects expected under normal conditions.
Toxicological Data:	LD ₅₀ (oral, mouse) 1400mg/kg

Section 12: ECOLOGICAL INFORMATION

Hazard Classifications:	9.1D, 9.3C
Ecotoxicity:	Avoid unintended release into streams and waterways.

Section 13: DISPOSAL INFORMATION

Product Disposal:	Reuse or recycle where possible. If practicable apply excess fertiliser at recommended rates to appropriate land. Observe any local authority restrictions that may apply.
Container Disposal:	Rinse containers thoroughly prior to reuse. Otherwise render unusable and dispose of as waste.

Section 14: TRANSPORT INFORMATION

UN Number:	None allocated
Proper Shipping Name:	None allocated

DG Class:	None allocated
Other Information:	Not regulated for transport purposes.

Section 15: REGULATORY INFORMATION

EPA:	Approved pursuant to the HSNO Act 1996, Approval number HSR003420.
See www.epa.govt.nz for approval controls.	

Section 16: OTHER INFORMATION

This Safety Data Sheet was updated on the date shown and supersedes all previous versions.

The data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other material. The information is provided in good faith based on current knowledge and experience. No warranty with regard to the product properties is expressed or implied.