

Safety Data Sheet

Ferrous Sulphate Monohydrate

Revised: 03/10/2016

Section 1: SUBSTANCE IDENTIFICATION AND SUPPLIER

Product Name:	Ferrous Sulphate Monohydrate
Other Names:	Sulfuric acid, iron salt monohydrate
Chemical Formula:	FeSO ₄ .H ₂ O
Product Code:	
Recommended Use:	Fertiliser
Company Identification:	Ravensdown Limited
Address:	292 Main South Road, Hornby, Christchurch 8042 PO Box 1049, Christchurch 8011
Customer Centre:	0800 100 123
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

Statement of Hazardous Nature:	Classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.
Hazard Classifications:	6.1D, 9.3C
Priority Identifiers:	WARNING KEEP OUT OF REACH OF CHILDREN
Secondary Identifiers:	6.1D = Harmful if swallowed 9.3C = Harmful to terrestrial vertebrates



WARNING

Section 3: COMPOSITION INFORMATION

INGREDIENT	CAS No.	CONTENT
Ferrous Sulphate Monohydrate	13463-43-9	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 patient to fresh air. Keep at rest in comfortable position for breathing. Seek medical assistance if effects persist.
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. Wash contaminated clothing before reuse.
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 attention
Advice to Doctor:	Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

Fire Fighting Measures:	Non-flammable
Flash Point:	Not Applicable
Hazardous Combustion Products:	Sulphur dioxide
Extinguishing Media:	Water. Use water fog to cool intact containers. Prevent run-off from entering waterways.
Protective Equipment:	Full protective clothing and equipment including SCBA.
HAZCHEM Code:	

Section 6: ACCIDENTAL RELEASE MEASURES

Spills and Disposal:	Wear appropriate protective clothing. 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. Use only outdoors or in a well-ventilated area. Avoid contact with material. Approved Handler: Not required. Tracking: Not required Location Test Certificate: Not required
Storage:	Store in a cool, dry, well-ventilated area. Store away from foodstuffs.
Precautionary Statements:	Keep out of reach of children. Keep away from heat or incompatible materials (oxidizing materials) Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid unintended release to 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 Total Exposure Limit (TEL): Not assigned
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 after working with substance.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Off-White, White to light Grey
Format:	Crystals/Granules
Odour:	Odourless
Bulk Density:	1250 kg/m ³ (typical)
Specific Gravity:	Not available
pH:	(50g.L ⁻¹ in water, 20°C) 2.4 – 2.8
Solubility in Water:	Soluble
Boiling Point:	n.a.
Melting Point:	64°C
Vapour Pressure:	Not available
Vapour Density:	Not available
Auto-ignition Temperature:	Not applicable

Section 10: STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Hazardous Polymerisation:	Will not occur.
Hazardous Decomposition Products:	Sulphur dioxide
Conditions to Avoid:	Ignition sources, heat.
Materials to Avoid:	Oxidising materials
Hygroscopic:	Yes

Section 11: TOXICOLOGICAL INFORMATION

Hazard Classifications:	6.1D
Ingestion:	May lead to nausea, vomiting, diarrhea, constipation, gastrointestinal tract disturbances. May also affect central nervous system, cardiovascular system, liver, kidneys.
Inhalation:	Irritant. May cause respiratory tract irritation (nose & throat).
Skin:	Mild Irritant. Prolonged and repeated skin exposure may result in irritation.
Eye:	Irritant. Exposure to dusts may result in irritation and lachrymation (tears).
Other Information:	No adverse health effects expected under normal conditions. Avoid eye and skin exposure and inhalation.
Toxicity Data:	LD ₅₀ (oral, rat) 319 mg.kg ⁻¹

Section 12: ECOLOGICAL INFORMATION

Hazard Classifications:	9.3C.
Ecotoxicity:	Avoid unintended release and washing excessive amounts into streams and waterways.

Section 13: DISPOSAL INFORMATION

Product Disposal:	Observe any local authority restrictions that may apply. Collection into sealable containers and dispose of in an approved land fill. If practicable apply excess fertiliser at recommended rates to appropriate land. Reuse material where practicable.
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:	Ferrous Sulphate
DG Class:	Not applicable
UN Packing Group:	Not applicable
Other Information:	No special transport requirements

Section 15: REGULATORY INFORMATION

EPA: Approved pursuant to the HSNO Act 1996
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.