



Safety Data Sheet

Sulphate of Iron

UPDATED: 23 March 2020

Section 1: SUBSTANCE IDENTIFICATION & SUPPLIER

Product Name:	Sulphate of Iron
Other Names:	
Recommended Use:	For the control of moss on home lawns.
Company Identification:	Morton Smith - Dawe Limited
Address:	396 Wigram Road, Halswell, Christchurch PO Box 37 - 139 Halswell
Customer Centre:	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

Classified as hazardous according to criteria in the HS (Minimum Degree of Hazard) Regulations 2001.

Pictograms	
Signal Word:	WARNING

HSNO Classification	Hazard Code	Hazard Statement	GHS Category
6.1D,		Harmful if swallowed	
6.3A		Causes skin irritation	
6.4A		Causes serious eye irritation	
9.1D		Toxic to aquatic life	
9.3C		Harmful to terrestrial vertebrates	

Prevention Statement:	<p>Keep out of reach of children. Read label before use. Read Safety Data Sheet before use. Wash hands, arms and face thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves. Wear eye/face protection.</p>
Response Statements:	<p>If medical advice is needed, have product container or label at hand. IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell. Rinse Mouth. Do NOT induce vomiting. IF ON SKIN: Wash with plenty of soap and water. Specific treatment and measures (see First Aid Measures on this safety data sheet). If skin irritation occurs: get medical advice/attention. Take off contaminated clothing and wash before re-use. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: get medical advice/attention.</p>

Section 3: COMPOSITION IDENTIFICATION

INGREDIENT	CAS No.	CONTENT
Ferrous Sulphate Heptahydrate	7782-63-0	90 - 100%

Section 4: FIRST AID MEASURES

Routes of Exposure:	
If in eyes:	Immediately flush with cold water. Continue for at least 15 minutes. Remove contact lenses if present and easy to do so. Seek medical advice/attention.
If on skin	Wash the skin thoroughly with plenty of water and soap whilst removing contaminated clothing. Wash clothing and shoes before reuse. If irritation occurs seek medical advice.
If Ingested:	If swallowed, seek immediate medical attention. Rinse mouth. Do NOT induce vomiting.
If Inhaled:	Remove to fresh air and keep at rest in a position comfortable for breathing. If not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.
First Aid Measures:	
Advice to Doctor:	Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

Hazard Type	
Hazardous Combustion Products:	Non-combustible solid. This material in sufficient quantity and reduced particle size is capable of creating a dust explosion. Incompatible with oxidizing materials, Alkalis, soluble carbonates and sources of ignition. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Burning may produce Sulphur oxides.
Extinguishing Media:	Non-flammable, however, if material is involved in a fire use extinguishing media appropriate for surrounding fire.
Protective Equipment:	Fire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and protective firefighting clothing (includes firefighting helmet, coat, trousers, boots and gloves). Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources. Move fire exposed containers from fire area if it can be done without risk. Do NOT allow firefighting water to reach waterways, drains or sewers. Store firefighting water for treatment.
HAZCHEM Code:	None allocated

Section 6: ACCIDENTAL RELEASE MEASURES


Personal precautions, protective equipment and emergency procedures:
Evacuate all unnecessary personnel. Personnel involved in the cleanup should wear full protective clothing as listed in section 8. Eliminate all sources of ignition. Increase ventilation. Avoid generating dust. Stop leak if safe to do so. Isolate the danger area. Do NOT let product reach drains or waterways. If product does enter a waterway, advise the Environmental Protection Authority or your local Waste Management. Refer to SDS section 8 for additional information and personal protection equipment to prevent contamination of skin, eyes and personal clothing.
Environmental precautions:
Contain – Prevent product from entering into soil, ditches, sewers, waterways and/or groundwater.
Methods and material for containment and cleaning up:
Contain – Contain and sweep/shovel up spills with dust binding material or use an industrial vacuum cleaner. Transfer to a suitable, labeled container and dispose of promptly as hazardous waste. Place under an inert atmosphere.

Section 7: HANDLING AND STORAGE

Handling:	Keep out of reach of children. Avoid unintended release to the environment. Ensure an eye bath and safety shower are available and ready for use. Observe good personal hygiene practices and recommended procedures. Wash hands, face and exposed skin thoroughly after handling. Take precautionary measures against static discharges by bonding and grounding equipment. Avoid contact with eyes, skin and clothing. Avoid generating dust, do not inhale product dust/fumes. Remove contaminated clothing and wash before reuse. Do not ingest or inhale. Handle under an inert atmosphere. Store protected from air.
Storage:	Store in a cool, dry, well-ventilated area out of direct sunlight. Keep containers tightly closed when not in use. Inspect regularly for deficiencies such as damage or leaks. Store away from children, animals, food, feedstuffs, drink containers, fertilisers and seeds. Protect against physical damage. Store away from incompatible materials as listed in section 10.

Section 8: EXPOSURE CONTROL / PERSONAL PROTECTION

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Exposure Limits:	No value assigned for this specific material by EPA or NZ Dept. of Labour Health & Safety. However, Workplace Exposure Standard(s) for particulates not otherwise classified: Inhalable dust: WES-TWA 10 mg/m^3 Respirable dust: WES-TWA 3 mg/m^3 Workplace Exposure Standard(s) for constituent(s): Iron salts, soluble, as Fe: WES-TWA 1 mg/m^3 As published in Workplace Exposure Standards and Biological Exposure Indices – July 2011, 6th edition.
Personal Protection Equipment:	
Engineering Controls:	Handle in a well-ventilated area; ensure ventilation is adequate to maintain air concentrations below exposure standards. If dust is generated use local extraction to control. Avoid inhalation of dust. Keep containers closed when not in use.

Section 9: PHYSICAL & CHEMICAL PROPERTIES

Appearance:	Solid pale green crystalline powder
Odour:	Odourless
Odour Threshold:	Not Available
Solubility in Water:	Soluble In Water
Flash Point:	Not Available
pH:	3.0 – 5.0.
Melting Point:	>300°C (Decomposes).
Bulk Density:	1.89.

Section 10: STABILITY & REACTIVITY

Stability of Substance:	Product is stable under normal conditions of use, storage and temperature. Loses water in dry air and oxidizes upon exposure to moisture, forming a brown coating of extremely corrosive basic ferric sulphate. Reacts in moist air to form ferric sulphate.
Possibility of hazardous reactions:	Hazardous Polymerization has not been reported. Loses water in dry air and oxidizes upon exposure to moisture, forming a brown coating of extremely corrosive basic ferric sulphate. Reacts in moist air to form ferric sulphate.
Hazardous Decomposition Products:	During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Burning may produce sulphur oxides.
Conditions to Avoid:	oid excessive heat, generating dust, direct sunlight, moisture, static discharges and high temperatures.
Materials to Avoid:	Incompatible with oxidizing materials, Alkalis, soluble carbonates, and sources of ignition.

Section 11: TOXICOLOGICAL INFORMATION

Hazard Classifications:	6.1D, 6.3A, 6.4A, 9.1D, 9.3C
Ingestion:	Harmful if swallowed. Affects the liver. Swallowing can result in nausea, vomiting, diarrhoea, and gastrointestinal irritation. Symptoms of swallowing large amounts of soluble iron compounds may be delayed several hours and can include epigastric pain, vomiting blood and circulatory failure.
Inhalation:	Causes irritation to the respiratory tract. May be harmful if inhaled.
Skin:	Causes irritation to skin. Symptoms include redness, itching and pain.
Eye:	Causes serious eye irritation. Causes irritation to eyes with redness and pain.
Toxicity Data:	Not available for the product.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity:	Avoid unintended release to the environment. Avoid contamination of sewers, drains or waterways. Toxic to aquatic life. Harmful to terrestrial vertebrates.
---------------------	--

Section 13: DISPOSAL INFORMATION

Disposal Method:	Dispose of this product by using in accordance with the product label directions. Do not dispose of this product; down drains or sewers. Collect any unused product and dispose of in an approved landfill.
Container Disposal:	Packaging disposal – Crush packaging and dispose of in a suitable approved landfill. If wastes and/or packaging cannot be disposed of according to the product label directions, disposal of this material must be in accordance with your local area regulatory authorities following all applicable regional, national and local laws and regulations. Some local authorities offer hazardous waste collection, contact your local council for details.

Section 14: TRANSPORT INFORMATION

Not classified as a Dangerous Good for Transport.
Maximum volume permitted to be transported in a passenger service vehicle: 3 kg per bag.

Section 15: REGULATORY INFORMATION

EPA Approval Code:	Approved pursuant to the HSNO Act 1996, Approval number HSR003427. 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.

Disclaimer

This document has been prepared by TCC (NZ) Ltd and serves as the suppliers Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to TCC (NZ) Ltd or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While TCC (NZ) have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, TCC (NZ) Ltd accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS. The information herein is given in good faith, but no warranty, express or implied is made.

Please contact Morton Smith - Dawe, if further information is required.

Issue Date: 23 March 2020

Review Date: 23 March 2025