



Safety Data Sheet

Egmont Lawn Moss Control

Sulphate of Iron

1. IDENTIFICATION

Product Name	Ferrous Sulphate Heptahydrate
Other Names	Iron (II) Sulphate (1:1) Heptahydrate; Iron Protosulphate; SULFURIC ACID, IRON (2+) SALT (1:1), HEPTAHYDRATE
Uses	Water and sewage treatment; reducing agent; wood preservative; fertiliser; chemical manufacture
Product Description	No Data Available
Chemical Family	No Data Available
Chemical Formula	Fe.H ₂ O ₄ S.7H ₂ O
Chemical Name	Ferrous Sulphate Heptahydrate

Contact Details of the Supplier of this Safety Data Sheet

Organisation	Location	Telephone
Egmont Commercial Ltd	347 Marshs Road Halswell Christchurch	+64 3 3495546

Emergency Contact Details

For emergencies only; DO NOT contact these companies for general product advice.

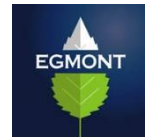
Organisation	Location	Telephone
Chemcall	New Zealand	0800-243622
National Poisons Centre	New Zealand	0800-764766

2. HAZARD IDENTIFICATION

Poisons Schedule (Aust) Not scheduled

Environmental Protection Authority (New Zealand)
Hazardous Substances and New Organisms Amendment Act 2015

Issued 28th Feb 2017. Version 4.1



**HSNO Classifications
Health Hazards**

6.1D Substances that are acutely toxic – Harmful
6.3A Substances that are irritating to the skin
6.4A Substances that are irritating to the eye

**Environmental
Hazards**

9.1D Substances that are slightly harmful to the aquatic environment or are otherwise designed for biocidal action
9.3C Substances that are harmful to terrestrial vertebrates

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Chemical Entity	Ferrous Sulphate Heptahydrate
Formula	No Data Available
CAS Number	7782-63-0
Proportion	90.0 - 100.0 %

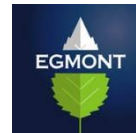
4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Swallowed	Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water. Never give anything by the mouth to an unconscious patient. Seek immediate medical assistance.
Eye	If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre or a doctor, or for at least 15 minutes.
Skin	If skin or hair contact occurs, immediately remove any contaminated clothing and wash skin and hair thoroughly with running water. If swelling, redness, blistering or irritation occurs seek medical assistance.
Inhaled	Remove victim from area of exposure - avoid becoming a casualty. Seek medical advice if effects persist.
Advice to Doctor	Treat symptomatically based on judgement of doctor and individual reactions of patient.

Medical Conditions Aggravated by Exposure

No information available on medical conditions which are aggravated from exposure to this product.



5. FIRE FIGHTING MEASURES

General Measures

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.

Flammability Conditions

Product is a non-flammable solid.

Extinguishing Media

Not combustible, however, if material is involved in a fire use: Extinguishing media appropriate to surrounding fire conditions.

Fire and Explosion Hazard

Non-combustible material

Hazardous Products of Combustion

Decomposes on heating emitting toxic fumes, including those of oxides of sulphur.

Special Fire Fighting Instructions

Do NOT allow fire-fighting water to reach waterways, drains or sewers. Store fire-fighting water for treatment.

Personal Protective Equipment

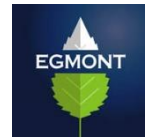
Fire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and protective fire-fighting clothing (includes fire-fighting helmet, coat, trousers, boots and gloves). Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources. Move fire exposed containers from fire area if it can be done without risk. Do NOT allow fire-fighting water to reach waterways, drains or sewers. Store fire-fighting water for treatment.

Flash Point	No Data Available
Lower Explosion Limit	No Data Available
Upper Explosion Limit	No Data Available
Auto Ignition Temperature	No Data Available
Hazchem Code	No Data Available

6. ACCIDENTAL RELEASE MEASURES

General Response Procedure

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Personnel involved in the clean-up should wear full protective clothing as listed in section 8. Evacuate all unnecessary personnel. 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

Clean Up Procedures

Contain and sweep/shovel up spills with dust binding material or use an industrial vacuum cleaner. Transfer to a suitable, labelled container and dispose of promptly as hazardous waste. Place under an inert atmosphere.

Containment

Stop leak if safe to do so. Isolate the danger area.

Environmental Precautionary Measures

Do NOT let product reach drains or waterways. If product does enter a waterway, advise the Environmental Protection Authority or your local Waste Management.

Evacuation Criteria

Evacuate all unnecessary personnel.

Personal Precautionary Measures

Personnel involved in the clean-up should wear full protective clothing as listed in section 8.

7. HANDLING AND STORAGE

Handling

Ensure an eye bath and safety shower are available and ready for use. Observe good personal hygiene practices and recommended procedures. Wash thoroughly after handling. Take precautionary measures against static discharges by bonding and grounding equipment. Avoid contact with eyes, skin and clothing. 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. Keep containers tightly closed when not in use. Inspect regularly for deficiencies such as damage or leaks. Protect against physical damage. Store away from incompatible materials as listed in section 10. Store protected from air. This product is not classified dangerous for transport according to The Australian Code for the Transport of Dangerous Goods By Road and Rail.



Container Container type/packaging must comply with all applicable local legislation. Store in original packaging as approved by manufacturer.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General

No value assigned for this specific material by Safe Work Australia. However, Workplace Exposure Standard(s) for constituent(s): Iron salts, soluble (as Fe): 8hr TWA = 1 mg/m³. As published by Safe Work Australia Workplace Exposure Standards for Airborne Contaminants.

Exposure

Limits No Data Available

Biological Limits

No information available on biological limit values for this product.

Engineering Measures

A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

Personal Protection Equipment

RESPIRATOR

Wear an approved respirator where dusts/vapours are generated and engineering controls are inadequate (AS1715/1716)

EYES

Use chemical safety goggles and/or a full-face shield (AS1336/1337).

HANDS

Wear protective gloves (AS2161).

CLOTHING

Long-sleeved protective clothing and safety footwear (AS3765/2210).

Work Hygienic Practices

No Data Available

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical	State Solid
Odour	Odourless
Appearance	Solid
Colour	Light Grey to Off-white or White
pH	3.7 10% solution
Vapour Pressure	No Data Available
Relative Vapour Density	No Data Available
Boiling Point	300degs C
Melting Point	64degs C
Freezing Point	64degs C
Solubility	Soluble in water 25degs C



Specific Gravity	1.898 water = 1
Flash Point	No Data Available
Auto Ignition Temp	No Data Available
Evaporation Rate	No Data Available
Bulk Density	No Data Available
Corrosion Rate	No Data Available
Decomposition Temperature	300degs C
Density	No Data Available
Specific Heat	No Data Available
Molecular Weight	No Data Available
Net Propellant Weight	No Data Available
Octanol Water Coefficient	No Data Available
Particle Size	No Data Available
Partition Coefficient	No Data Available
Saturated Vapour Concentration	No Data Available
Vapour Temperature	No Data Available
Viscosity	No Data Available
Volatile Percent	No Data Available
VOC Volume	No Data Available
Additional Characteristics	No Data Available
Potential for Dust Explosion	Non-combustible material.
Fast or Intensely Burning	
Characteristics	No Data Available
Flame Propagation or Burning	
Rate of Solid Materials	No Data Available
Non-Flammables That Could	
Contribute Unusual Hazards to a	
Fire	No Data Available
Properties That May Initiate or	
Contribute to Fire Intensity	No Data Available
Reactions That Release Gases	
or Vapours	No Data Available
Release of Invisible Flammable	
Vapours and Gases	No Data Available

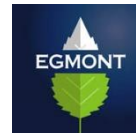
10. STABILITY AND REACTIVITY

General Information

Hygroscopic: absorbs moisture or water from surrounding air.

Chemical Stability

Stable.

**Conditions to Avoid**

Avoid excessive heat, generating dust, direct sunlight, moisture, static discharges and high temperatures.

Materials to Avoid

Incompatible with alkalis, oxidising agents, soluble carbonates, gold and silver salts, lead acetate, lime water, potassium, potassium iodide, sodium tartrate, sodium borate, tannin, vegetable astringent infusions and decoctions.

Hazardous Decomposition Products

During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Burning may produce sulphur oxides.

Hazardous Polymerisation

Hazardous polymerisation will not occur.

11. TOXICOLOGICAL INFORMATION**General Information**

Oral LD50 (rat): 319 mg/kg.
Evidence indicates that repeated or prolonged exposure to this chemical could result in effects on the liver.

Eye Irritant

Causes irritation to eyes with redness and pain.

Ingestion

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

Breathing in dust may result in respiratory irritation.

Skin Irritant
pain.

Causes irritation to skin. Symptoms include redness, itching and

Carcinogen Category

No Data Available

12. ECOLOGICAL INFORMATION

Ecotoxicity	No ecological information available for this product.
Persistence/Degradability	No information available on persistence/degradability for this product.
Mobility	No information available on mobility for this product.
Environmental Fate	Do not allow product to enter waterways, drains or sewers.
Bioaccumulation Potential	No information available on bioaccumulation for this product.
Environmental Impact	No Data Available



13. DISPOSAL CONSIDERATIONS

General Information

Dispose of in accordance with all local, state and federal regulations. All empty packaging should be disposed of in accordance with Local, State, and Federal Regulations or recycled/reconditioned at an approved facility.

Special Precautions for Land Fill

Contact a specialist disposal company or the local waste regulator for advice.

This should be done in accordance with 'The Hazardous Waste Act'.

14. TRANSPORT INFORMATION

Land Transport (New Zealand)

NZS5433

Proper Shipping Name	FERROUS SULPHATE HEPTAHYDRATE
Class	No Data Available
Subsidiary Risk(s)	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available

Sea Transport

IMDG

Proper Shipping Name	FERROUS SULPHATE HEPTAHYDRATE
Class	No Data Available
Subsidiary Risk(s)	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available
EMS	No Data Available
Marine Pollutant	No

Air Transport

IATA

Proper Shipping Name	FERROUS SULPHATE HEPTAHYDRATE
Class	No Data Available
Subsidiary Risk(s)	No Data Available
UN Number	No Data Available



Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available

15. REGULATORY INFORMATION

General Information	No Data Available
Poisons Schedule (Aust)	Not scheduled

Environmental Protection Authority (New Zealand)

Hazardous Substances and New Organisms Amendment Act 2015

Approval Code HSR003427

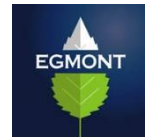
National/Regional Inventories

Australia (AICS)	Listed
Canada (DSL)	Not Determined
Canada (NDSL)	Not Determined
China (IECSC)	Not Determined
Europe (EINECS)	Not Determined
Europe (REACH)	Not Determined
Japan (ENCS/METI)	Not Determined
Korea (KECI)	Not Determined
Malaysia (EHS Register)	Not Determined
New Zealand (NZIoC)	Listed
Philippines (PICCS)	Not Determined
Switzerland (Giftliste 1)	Not Determined
Switzerland (Inventory of Notified Substances)	Not Determined
Taiwan (NCSR)	Not Determined
USA (TSCA)	Not Determined

16. OTHER INFORMATION

Related Product Codes

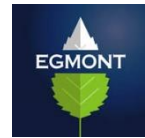
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FESULP5100, FESULP5200, FESULP5300, FESULP5400, FESULP5500, FESULP5501, FESULP5502, FESULP5503, FESULP5504, FESULP6000, FESULP6001, FESULP6100, FESULP6200, FESULP6500, FESULP6600, FESULP6610, FESULP6630, FESULP6640, FESULP6650, FESULP7000, FESULP7001, FESULP7400, FESULP7500, FESULP8000, FESULP8001, FESULP8200, FESULP8300, FESULP8600, FESULP9000, FESULP9500, FESULP9600, FESULP9800, FESULP9900, FESULP9901, FESUPH1000, FESUPH1500, FESUPH2000, FESUPH2500.

Revision 2
Revision Date 27 Jul 2015

Key/Legend	<	Less Than
	>	Greater Than
	AICS	Australian Inventory of Chemical Substances
	atm	Atmosphere
	CAS	Chemical Abstracts Service (Registry Number)
	Cm ²	Square Centimetres
	CO ₂	Carbon Dioxide
	COD	Chemical Oxygen Demand
	deg C	Degrees Celcius
	EPA	(New Zealand) Environmental Protection Authority of New Zealand
	deg F	Degrees Farenheit
	g	Grams
	g/cm ³	Grams per Cubic Centimetre
	g/l	Grams per Litre
	HSNO	Hazardous Substance and New Organism
	IDLH	Immediately Dangerous to Life and Health
	immiscible	Liquids are insoluable in each other.
	inHg	Inch of Mercury
	inH ₂ O	Inch of Water
	K	Kelvin
	kg	Kilogram
	kg/m ³	Kilograms per Cubic Metre
	lb	Pound
	LC50	LC stands for lethal concentration. LC50 is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours.
	LD50	LD stands for Lethal Dose. LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals.
	ltr or L	Litre
	m ³	Cubic Metre
	mbar	Millibar
	mg	Milligram
	mg/24H	Milligrams per 24 Hours
	mg/kg	Milligrams per Kilogram
	mg/m ³	Milligrams per Cubic Metre
	Misc or Miscible	Liquids



	Form one homogeneous liquid phase regardless of the amount of either component present
mm	Millimetre
mmH ₂ O	Millimetres of Water
mPa.s	Millipascals per Second
N/A	Not Applicable
NIOSH	National Institute for Occupational Safety and Health
NOHSC	National Occupational Health and Safety Commission
OECD	Organisation for Economic Co-operation and Development
Oz	Ounce
PEL	Permissible Exposure Limit
Pa	Pascal
ppb	Parts per Billion
ppm	Parts per Million
ppm/2h	Parts per Million per 2 Hours
ppm/6h	Parts per Million per 6 Hours
psi	Pounds per Square Inch
R	Rankine
RCP	Reciprocal Calculation Procedure
STEL	Short Term Exposure Limit
TLV	Threshold Limit Value
tne	Tonne
TWA	Time Weighted Average
ug/24H	Micrograms per 24 Hours
UN	United Nations
wt	Weight