



# Material Safety Data Sheet

MSDS No.	3107	Issue Date:	December 2010	Page:	1 of 4
Product Name:	<b>GREENMASTER LIQUID EFFECT Fe</b>			Version:	1.0

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name	GREENMASTER LIQUID EFFECT Fe	
Product code	310700, 310760	
Manufacturer	SCOTTS AUSTRALIA PTY LTD	
Address	Australia: 11 Columbia Way Baulkham Hills NSW 2153	New Zealand: 180c Great South Rd Takanini Auckland 0800 734 607
Emergency telephone	1800 033 111	0800 734 607
Telephone/fax number	Tel: (02) 8853 7300 Fax: (02) 8853 7310	Tel: (09) 299 6558 Fax: (09) 296 0186
Recommended use	Fertiliser	

## 2. HAZARDS IDENTIFICATION

Hazard classification	NON-HAZARDOUS, NON-DANGEROUS GOODS.
Risk & safety phrases	S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS	Proportion of ingredients
Sulphuric acid	7664-93-9	1-5%
Iron sulphate	7720-78-7	10-25%
Manganese sulphate	7785-87-7	<1%

## 4. FIRST AID MEASURES

Inhalation	Not applicable.
Ingestion	Never give anything by mouth to an unconscious person. Clean mouth with water and drink plenty of water afterwards. If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26. Phone New Zealand 0800 764 766.
Skin	If a person feels unwell or symptoms of skin irritation appear, consult a doctor. Wash hands and exposed skin after use/handling.
Eye	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
First aid facilities	Water, wash facilities.

## 5. FIRE FIGHTING MEASURES

Suitable extinguishing media	The product itself does not burn. Coordinate fire extinguishing measures to fire in surrounding area.
Hazards from combustion products	Danger of toxic gases in smoke in case of fire.
Special protective precautions and equipment for fire fighters	Standard procedure for chemical fires.

## 6. ACCIDENTAL RELEASE MEASURES

Emergency procedures	Wear personal protective equipment. Do not allow material to contaminate ground water system. Do not flush into surface water or sanitary sewer system.
Methods and materials for containment and cleanup	Wipe up with absorbent material (e.g. cloth, fleece). Take up mechanically and collect in suitable container for disposal. Do not use flammable material (wood shavings) for liquid absorption.

## 7. HANDLING AND STORAGE

Precautions for safe	No special technical protective measures required. When using, do not eat, drink or smoke. General
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<b>handling</b>	industrial hygiene practice. Avoid contact with skin and eyes.
<b>Conditions for safe Storage</b>	Store in original container. Keep at temperatures above 0°C. Keep away from food, drink and animal feeding stuffs. In crystalline form, enhances combustibility of other substances. Keep from drying out. Protect from contamination.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>National exposure standards</b>	Safe Work Australia Exposure Standards:				
	Substance	TWA		STEL	
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
	sulphuric acid	-	1	-	3
	iron salts (soluble as Fe)	-	1	-	-
	New Zealand Occupational Safety & Health Service (OSH) Workplace Exposure Standards:				
	Substance	TWA		STEL	
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
	sulphuric acid	-	1	-	-
	iron salts (soluble as Fe)	-	1	-	-
<b>Biological limit values</b>	None allocated.				
<b>Engineering controls</b>	Ensure adequate ventilation.				
<b>Respiratory protection</b>	Not required.				
<b>Skin protection</b>	Protective gloves and suitable protective clothing.				
<b>Eye protection</b>	Safety glasses. Eye wash bottle with pure water.				

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Clear green liquid.
<b>Odour</b>	Not significant
<b>pH value</b>	3-4
<b>Vapour pressure</b>	Not available
<b>Vapour density (Air=1)</b>	Not available
<b>Boiling point</b>	105°C
<b>Melting point</b>	Not available
<b>Solubility in water</b>	Not available
<b>Bulk density/specific gravity</b>	1.23-1.25g/cm <sup>3</sup>
<b>Flashpoint</b>	Not available
<b>Auto-ignition temperature</b>	Not available
<b>Flammable limits-lower</b>	Not available
<b>Flammable limits-upper</b>	Not available

## 10. STABILITY AND REACTIVITY

<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Conditions to avoid</b>	Do not allow solution to dry out. Prevent uncontrolled heating.
<b>Incompatible materials</b>	Strong bases. Galvanized container (corrosion). Soaking of flammable material (fire risk after drying).
<b>Hazardous decomposition</b>	No decomposition if stored normally.



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**products**

**Hazardous reactions** No information available.

## 11. TOXICOLOGICAL INFORMATION

<b>General</b>	Component information: Iron sulphate LD50/oral/rat: 1389mg/kg Manganese sulphate LD50/oral/rat: 9g/kg
<b>Inhalation</b>	May cause sensitization by inhalation.
<b>Ingestion</b>	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea
<b>Skin</b>	May cause skin irritation in susceptible persons
<b>Eye</b>	May cause eye irritation with susceptible persons
<b>Chronic effects</b>	No information available.

## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants. Component effects: Iron sulphate EC50/48h/daphnia =>100mg/l LC50/96h/rainbow trout =>72.5mg/l (6d) EC50/72h/algae = 22mg/l Manganese sulphate EC50/48h/daphnia => 100 mg/l
<b>Persistence and degradability</b>	No information available.
<b>Mobility</b>	No information available.
<b>Bioaccumulative potential</b>	Does not bioaccumulate.
<b>Environmental protection</b>	Do not allow product or empty container to contaminate drains, streams or other waterways.

## 13. DISPOSAL CONSIDERATIONS

<b>Disposal methods and containers</b>	Dispose of in accordance with local regulations. Packaging: Rinse empty containers with water and use the rinse-water to prepare the working solution. Can be offered for recycling, re-conditioning or puncture.
<b>Special precautions for landfill/incineration</b>	No information available.

## 14. TRANSPORT INFORMATION

<b>Transport information</b>	Not classified as dangerous goods according to the ADG Code for road and rail transport, NZS 5433:2007 for road transport, the IMDG Code for marine transport or the IATA Regulations for air transport.
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## 15. REGULATORY INFORMATION

<b>Regulatory information</b>	No information available.
<b>Poisons schedule</b>	Not a scheduled poison.

## 16. OTHER INFORMATION

<b>Date of preparation or last revision of MSDS</b>	MSDS Created: December 2010.	
<b>Contact point</b>	Scotts Australia Pty Ltd 11 Columbia Way	180c Great South Rd



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Fax (02) 8853 7310  
Emergency phone 1800 033 111  
End.....

Takanini Auckland, New Zealand  
Phone (09) 299 6558  
Fax (09) 296 0186  
Emergency phone 0800 734 607