

Scotts. Material Safety Data Sheet

According to EC Regulation 1907/2006

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Print date: 08-Sep-2008

Revision Number:

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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE **COMPANY/UNDERTAKING**

Identification of the substance or preparation

MSDS Ref. No.: Product name:	3107.01.42 Greenmaster Liquid Iron Effect
Use of the Substance/Preparation	<u>n</u>
Recommended use:	Liquid concentrate.
Company/Undertaking Identification	 Scotts UK Professional, Paper Mill Lane, Bramford, Ipswich, Suffolk IP8 4BZ United Kingdom
Emergency telephone number:	• ++44 (0) 1865 407333 (24h)
Email	INFO-MSDS@Scotts.com

2. HAZARDS IDENTIFICATION

Classification

The product is non-dangerous in accordance with Directive 1999/45/EC

Most important hazards

None

3. COMPOSITION/INFORMATION ON INGREDIENTS

The product contains no substances known to be hazardous to health in concentrations which need to be taken into account

Components	CAS-No	Weight %	EC-No.	Classification
Sulfuric acid	7664-93-9	1 - 5%	016-020-00-8	C;R35
Iron sulphate, FeSO4+1H2O	7720-78-7	10 - 25%	231-753-5	Xn;R22
Manganese sulphate, MnSO4	7785-87-7	< 1%	232-08-99	N;R51/53 Xn;R48/20/22

NE = Non-Established

For the full text of the R phrases mentioned in this Section, see Section 16

4. FIRST AID MEASURES	
General advice:	If you feel unwell, seek medical advice (show the label where possible).
Ingestion:	Never give anything by mouth to an unconscious person. Clean mouth with water and drink afterwards plenty of water. Consult a physician if necessary.
Inhalation:	Not applicable.
Skin contact:	If a person feels unwell or symptoms of skin irritation appear, consult a physician. Wash hands and exposed skin after use / handling.
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

The product itself does not burn. Coordinate fire extinguishing measures to fire in surrounding area.

Unsuitable extinguishing media:

Not applicable

Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases:

Danger of toxic gases in smoke in case of fire

Special protective equipment for firefighters:

Standard procedure for chemical fires.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Wear personal protective equipment.

Environmental precautions:

Do not allow material to contaminate ground water system. Do not flush into surface water or sanitary sewer system.

Methods for cleaning up:

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

Handling:

Technical measures/precautions:

No special technical protective measures required.

Safe handling advice:

No information available

Storage:

Technical measures/storage conditions:

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.

Incompatible products:

No information available

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures to reduce exposure:	Ensure adequate ventilation.	
Occupational exposure controls		
Personal protective equipment		
Respiratory protection:	Not required.	
Hand protection:	Protective gloves.	
Eye/face protection	Safety glasses. Eye wash bottle with pure water.	
Skin and body protection:	Wear suitable protective clothing.	
Hygiene measures	When using, do not eat, drink or smoke. General industrial hygiene practice. Avoid contact with skin and eyes.	

Exposure limit values

Sulfuric acid

Belgium - 8 Hr VLE Czech Republic OEL Finland - Occupational Exposure Limits - 8 hour France - Valeurs Limites d'exposition (VLE) France INRS (VME) Germany (DFG) - MAK Norway - 8 h:

Portugal - TWAs Spain - Valores Limite Ambientales - VLE Sweden - OEL - 8 Hour

Iron sulphate, FeSO4+1H2O

Belgium - 8 Hr VLE Finland - Occupational Exposure Limits - 8 hour Netherlands - OEL - MACs: Norway - 8 h: Portugal - TWAs Spain - Valores Limite Ambientales - VLE UK EH40 WEL:

Manganese sulphate, MnSO4 Belgium - 8 Hr VLE Czech Republic OEL Finland - Occupational Exposure Limits - 8 hour Germany TRGS900: Germany (DFG) - MAK Netherlands - OEL - MACs: Norway - 8 h: 1 mg/m³ TWA = 1 mg/m³ TWA 0.2 mg/m³ TWA 3 mg/m³ VLCT 1 mg/m³ VME 0.1 mg/m³ MAK 0.1 mg/m³ TWA 0.2 mg/m³ TWA 0.2 mg/m³ TWA 1 mg/m³ VLA-ED 1 mg/m³ LLV

1 mg/m³ 1 mg/m³ 1 mg/m³ 0.01 mg/m³ 1 mg/m³ TWA 1 mg/m³ VLA-ED LTEL (8 hr TWA) 1 mg/m³ STEL (15 min) 2mg/m³

0.2 mg/m³ = 1 mg/m³ TWA 0.5 mg/m³ 0.5 mg/m³ TWA 0.5 mg/m³ MAK 1 mg/m³ 2.5 mg/m³ Portugal - TWAs Spain - Valores Limite Ambientales - VLE Sweden - OEL - 8 Hour

UK EH40 WEL:

0.2 mg/m³ TWA 0.2 mg/m³ VLA-ED 0.1 mg/m³ LLV 0.2 mg/m³ LLV 5 mg/m³

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Liquid Clear Green Not significant
ronmental Information 105 (°C) 1.23 - 1.25 g/cm3

Other information

pH:

3 - 4

10. STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions.
Conditions to avoid:	Do not allow solution to dry out. Prevent uncontrolled heating.
Materials to avoid:	Strong bases. Galvanized container (corrosion). Soaking of flammable material (fire risk after drying).
Hazardous decomposition products:	No decomposition if stored normally

11. TOXICOLOGICAL INFORMATION

Component information		
Iron sulphate, FeSO4+1H2O LD50/oral/rat =	1389 mg/kg	
Manganese sulphate, MnSO4 LD50/oral/rat =	9 g/kg	
Other information on acute tox No information available	icity:	
Product information		

Local effects	
Skin effects:	May cause skin irritation in susceptible persons
Eye effects:	May cause eye irritation with susceptible persons
Inhalation:	May cause sensitization by inhalation
Ingestion:	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea

12. ECOLOGICAL INFORMATION

Product information

Aquatic toxicity:

Water Endangering Class (WGK):

Component information

Iron sulphate, FeSO4+1H2O Ecotoxicity effects Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants. 1 (Scotts classification)

EC50/48h/daphnia = >100mg/l LC50/96h/rainbow trout = >72.5mg/l (6d) EC50/72h/algae = 22mg/l

Manganese sulphate, MnSO4 Ecotoxicity effects

EC50/48h/daphnia => 100 mg/l

Does not bioaccumulate

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods:Dispose of in accordance with local regulations.Contaminated 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.

14. TRANSPORT INFORMATION

<u>Product information</u> Physical State:	Liquid
Thysical State.	Liquid
ADR/RID	
UN-No:	Not classified for transport
IATA	

Revision date: 08-Sep-2008

UN-No:

IMO / IMDG

UN-No:

Not classified for transport

Not classified for transport

15. REGULATORY INFORMATION

Indication of danger:

This product does not have to be classified according to the EU regulations.

S -phrase(s)

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

16. OTHER INFORMATION

Text of R Phrases mentioned in Section 3

R22 - Harmful if swallowed.

R35 - Causes severe burns.

R36 - Irritating to eyes.

R48/20/22 - Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed. R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Reason for revision:

*** Indicates changes since the last revision. This version replaces all previous versions

Prepared by:

Regulatory Affairs Department.

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End of Safety Data Sheet