



Material Safety Data Sheet

According to EC Regulation 1907/2006

Print date: 24-Sep-2008***

Revision Number: 2***

Revision date: 24-Sep-2008***

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

Identification of the substance or preparation

MSDS Ref. No.: 3105.01.42
Product name: Greenmaster Liquid Iron 4

Use of the Substance/Preparation

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
Magnesium nitrate hexahydrate, Mg(NO ₃) ₂ ·6H ₂ O	13446-18-9	10 - 25%	233-826-7	O;R08
Ammonium nitrate, NH ₄ NO ₃	6484-52-2	> 25%	229-347-8	O;R08

NE = Non-Established

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

Revision date: 24-Sep-2008***

Page 1 of 5

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.
Eye contact:	Flush eye(s) immediately with plenty of water.

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:

Nitrogen oxide . Ammonia.

Special protective equipment for firefighters:

Standard procedure for chemical fires.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Contaminated surfaces will be extremely slippery.

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 (!) 5 °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:	Not required.
Eye/face protection	Not required.
Skin and body protection:	Not required.
Hygiene measures	When using, do not eat, drink or smoke. General industrial hygiene practice. Avoid contact with skin and eyes.

Exposure limit values

Ammonium nitrate, NH₄NO₃
Czech Republic OEL

= 10.0 mg/m³ TWA***

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Physical State:	Liquid
Appearance:	Clear
Color:	Dark red
Odor:	Not significant

Important Health Safety and Environmental Information

Boiling point/range:	105 (°C)
Density:	1.23 g/cm ³

Other information

pH:	7.6 (+/- .01)
------------	---------------

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

Ammonium nitrate, NH₄NO₃

LD50/oral/rat = 410 mg/kg

Other information on acute toxicity:

No information available

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: Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.
Water Endangering Class (WGK): 1 (Scotts classification)

Component information

Ammonium nitrate, NH₄NO₃

Ecotoxicity effects

EC50/48h/daphnia = 100 µg/l
LC50/96h/rainbow trout = 10 mg/l
EC50/72h/algae = 74000 µg/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**Product information****Physical State:** Liquid**ADR/RID****UN-No:** Not classified for transport**IATA****UN-No:** Not classified for transport**IMO / IMDG****UN-No:** Not classified for transport**15. REGULATORY INFORMATION****Indication of danger:**

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

16. OTHER INFORMATION**Text of R Phrases mentioned in Section 3**

R 8 - Contact with combustible material may cause fire.

Reason for revision:

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

Prepared by:

Regulatory Affairs Department.

This information contained herein is, to the best of Scott's knowledge and belief, accurate and reliable as of the date of preparation of this document. However, no warranty or guarantee, express or implied, is made as to the accuracy or reliability, and Scotts shall not be liable for any loss or damage arising out of the use thereof. No authorization is given or implied to use any patented invention without a license. In addition, Scotts shall not be liable for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices or from any hazards inherent in the nature of the product

End of Safety Data Sheet