

Scotts. Material Safety Data Sheet

According to EC Regulation 1907/2006

Print date: 20-May-2009*** Revision date: 07-Oct-2008 Revision Number: 3

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

Identification of the substance or preparation

MSDS Ref. No.: 4198.01.01

Product name: Sierrablen® Plus 24+5+8+2MgO

Use of the Substance/Preparation

Recommended use: Granulated fertilizer.

Company/Undertaking Scotts International BV

Identification Nijverheidsweg 1-5

6422 PD Heerlen (NL) Tel: ++31 (0) 45-5609100 Fax: ++31 (0) 45-5609190

Emergency telephone number: +44 (0)208 762 8322 (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

Chemical nature of the preparation

Components	CAS-No	Weight %	EC-No.	Classification
Sulphur, S	7704-34-9	1 - 5%	231-722-6***	Xi;R38-43***
Calcium sulphate dihydrate, CaSO4+2H2O	10101-41-4	< 1%	231-900-3	NE
Iron sulphate, FeSO4+1H2O	7720-78-7	< 1%	231-753-5	Xn;R22
Magnesium oxide, MgO	1309-48-4	1 - 5%	215-171-9	NE

Revision date: 07-Oct-2008 Page 1 of 7 MSDS Ref. No.: 4198.01.01

Sierrablen® Plus 24+5+8+2MgO

Components	CAS-No	Weight %	EC-No.	Classification
Manganese sulphate, MnSO4	7785-87-7	< 1%	232-08-99	N;R51/53 Xn;R48/20/22
Ammonium nitrate, NH4NO3	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

4. FIRST AID MEASURES

General advice: If you feel unwell, seek medical advice (show the label where possible).

Ingestion: Do not induce vomiting without medical advice. If a person vomits when lying on his

back, place him in the recovery position. Never give anything by mouth to an unconscious person. In case of respiratory difficulties practice oxygenotherapy.

Possible symptoms are nausea and/or vommiting.

Inhalation: In case of shortness of breath, give oxygen. Possible symptoms are coughing and/or

dyspnoea. Move to fresh air. If symptoms persist, call a physician.

Skin contact: If a person feels unwell or symptoms of skin irritation appear, consult a physician.

Eye contact: Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists,

consult a specialist.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

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:

Thermal decomposition can lead to release of irritating gases and vapours.

Special protective equipment for firefighters:

Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Ensure adequate ventilation. Avoid dust formation. Use personal protective equipment. Wear personal protective equipment.

Environmental precautions:

Prevent product from entering drains. Do not contaminate surface water.

Methods for cleaning up:

Shovel or sweep up. Do not create a powder cloud by using a brush or compressed air. Prevent product from entering drains.

Revision date: 07-Oct-2008 Page 2 of 7

7. HANDLING AND STORAGE

Handling:

Technical measures/precautions: No special technical protective measures required.

Safe handling advice: Keep away from open flames, hot surfaces and sources of

ignition.

Storage:

Technical measures/storage conditions: Keep away from heat and sources of ignition. Keep away

> from food, drink and animal feeding stuffs. For quality reasons: Keep out of reach of direct sunlight, store under dry conditions, partly used bags should be closed well. Keep at

temperatures between 0 °C and 40 °C.

Incompatible products: Not applicable

Specific use(s): Granulated fertilizer.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures to reduce exposure: Ensure adequate ventilation.

Occupational exposure controls

Personal protective equipment

Respiratory protection: Not applicable.

Hand protection: PVC or other plastic material gloves.

Eye/face protection Safety glasses.

Skin and body protection: Usual safety precautions while handling the product will

provide adequate protection against this potential effect.

Follow good housekeeping practices. When using, do not Hygiene measures

eat, drink or smoke. Keep away from food, drink and animal

feeding stuffs.

Exposure limit values

Sulphur, S

France INRS (VME) VME (poussières) = 10 mg/m³

Calcium sulphate dihydrate, CaSO4+2H2O

Belaium - 8 Hr VLE 10 mg/m³ TWA France INRS (VME) 10 mg/m³ VME **Germany TRGS900:** 6 mg/m3 TWA Germany (DFG) - MAK 1.5 mg/m³ MAK 4 mg/m³ MAK Portugal - TWAs 10 mg/m³ TWA

Spain - Valores Limite Ambientales - VLE 10 mg/m³ VLA-ED UK EH40 WEL: 10 mg/m3 TWA

4 mg/m³ TWA

Iron sulphate, FeSO4+1H2O

Belgium - 8 Hr VLE 1 mg/m^3

Revision date: 07-Oct-2008 Page 3 of 7

MSDS Ref. No.: 4198.01.01

Sierrablen® Plus 24+5+8+2MgO

Finland - Occupational Exposure Limits - 8 hour 1 mg/m³ Netherlands - OEL - MACs: 1 mg/m³ Norway - 8 h: 0.01 mg/m³ Portugal - TWAs 1 mg/m³ TWA 1 mg/m³ VLA-ED Spain - Valores Limite Ambientales - VLE **UK EH40 WEL:**

LTEL (8 hr TWA) 1 mg/m³ STEL (15 min) 2mg/m³

Magnesium oxide, MgO

Austria - MAKs 6 mg/m³ Belgium - 8 Hr VLE 10 mg/m³ Czech Republic OEL = 5 mg/m³ TWA France - Valeurs Limites d'exposition (VLE) 10 mg/m³ France INRS (VME) 10 mg/m³ VME Germany (DFG) - MAK 6 mg/m³ Netherlands - OEL - MACs: 10 mg/m³ Norway - 8 h: 10 mg/m³ 10 mg/m³ TWA Portugal - TWAs 10 mg/m³ VLA-ED Spain - Valores Limite Ambientales - VLE UK EH40 WEL: 10 mg/m³

Manganese sulphate, MnSO4

Belgium - 8 Hr VLE 0.2 mg/m³ Czech Republic OEL = 1 mg/m³ TWA Finland - Occupational Exposure Limits - 8 hour 0.5 mg/m³ **Germany TRGS900:** 0.5 mg/m3 TWA Germany (DFG) - MAK 0.5 mg/m3 MAK Netherlands - OEL - MACs: 1 mg/m³ 2.5 mg/m^3 Norway - 8 h: Portugal - TWAs 0.2 mg/m3 TWA Spain - Valores Limite Ambientales - VLE 0.2 mg/m3 VLA-ED Sweden - OEL - 8 Hour 0.1 mg/m³ LLV 0.2 mg/m³ LLV UK EH40 WEL:

Ammonium nitrate, NH4NO3

Czech Republic OEL = 10.0 mg/m3 TWA

9. PHYSICAL AND CHEMICAL PROPERTIES

5 mg/m³

General Information

Physical State: Solid Granular Appearance:

Color: Brown, Pink, Greenish Odor: No information available

Important Health Safety and Environmental Information

Decomposition temperature:

Solubility: Coating not soluble, release nutrients through coating

Flammability (solid, gas): Non-flammable

Other information

Bulk density: 800 - 1100 kg/m³

Revision date: 07-Oct-2008 Page 4 of 7

10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions.

Conditions to avoid: Keep away from open flames, hot surfaces and sources of ignition.

Materials to avoid: Combustible material.

Hazardous decomposition

products:

No decomposition if stored normally. Thermal decomposition can lead to release of

irritating gases and vapours.

11. TOXICOLOGICAL INFORMATION

Component information

Sulphur, S

LD50/oral/rat = > 2000 mg/kg **LD50/dermal/rat** = > 2000 mg/kg **LC50/inhalation/4h/rat** = > 5,4 mg/l

Iron sulphate, FeSO4+1H2O

LD50/oral/rat = 1389 mg/kg

Manganese sulphate, MnSO4

LD50/oral/rat = 9 g/kg

Ammonium nitrate, NH4NO3

LD50/oral/rat = 410 mg/kg

Product information

Local effects

Skin effects: May cause skin irritation in susceptible persons.

Eye effects: Contact with eyes may cause irritation.

Inhalation: May cause sensitization by inhalation.

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

12. ECOLOGICAL INFORMATION

Product information

Water Endangering Class (WGK):

1 (Scotts classification)

Revision date: 07-Oct-2008 Page 5 of 7

MSDS Ref. No.: 4198.01.01 Sierrablen® Plus 24+5+8+2MgO

Component information

Iron sulphate, FeSO4+1H2O

Ecotoxicity effects 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

Ammonium nitrate, NH4NO3

Ecotoxicity effects EC50/48h/daphnia =100 mg/l LC50/96h/rainbow trout =10 mg/l

LC50/96h/rainbow trout =10 mg/l EC50/72h/algae = 74000 μ g/l***

No ecological information is known on the product nor on any of its ingredients

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods: Use up product completely. Packaging material is industrial waste

Contaminated packaging: Empty containers can be landfilled, when in compliance with the local regulations

14. TRANSPORT INFORMATION

Product information

Physical State: Solid

ADR/RID

UN-No: Not classified for transport

<u>IATA</u>

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.

Revision date: 07-Oct-2008 Page 6 of 7

MSDS Ref. No.: 4198.01.01

Sierrablen® Plus 24+5+8+2MgO

15. REGULATORY INFORMATION

ICPE (FR): Classified installation: article 1331

16. OTHER INFORMATION

Text of R Phrases mentioned in Section 3

R 8 - Contact with combustible material may cause fire.

R22 - Harmful if swallowed.

R36/37/38 - Irritating to eyes, respiratory system and skin.

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.

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

Revision date: 07-Oct-2008 Page 7 of 7