



Safety Data Sheet

According to EC Directive 2001/58/EC

Print date: 09-Mar-2005

Revision Number: 1

Revision date: 09-Mar-2005

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

Identification of the substance or preparation

MSDS Ref. No.: 4192.01.01
Product name: Sierrablen Plus 19+5+18+2MgO+TE

Use of the Substance/Preparation

Recommended use: Fertilizer

Company/Undertaking Identification
Scotts International BV
Nijverheidsweg 1-5
6422 PD Heerlen (NL)
Tel: ++31 (0) 45-5609100
Fax: ++31 (0) 45-5609190

Emergency telephone number: As long as no emergency telephone number is available in Europe, please contact in case of an emergency: ++31 (0) 45-5609100

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature of the preparation

Components	CAS-No	Weight %	EC-No.	Classification
Magnesiumoxide, MgO	1309-48-4	1 - 5%	215-171-9	NE
Zinc sulphate, ZnSO ₄	7446-19-7	< 1%	231-793-3	N;R50/53 Xi;R36/38
Copper sulphate, CuSO ₄	7758-98-7	< 1%	029-004-00-0	N;R50/53 Xi;R36/38 Xn;R22
Manganese sulphate, MnSO ₄	7785-87-7	< 1%	025-003-00-4	N;R51/53 Xn;R48/20/22
Biuret	108-19-0	1 - 5%	203-559-0	Xi;R36/37/38

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

3. HAZARDS IDENTIFICATION

Classification

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

Most important hazards

None

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 vomiting.
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.
Protection of first-aiders:	Low hazard for usual industrial or commercial handling.

5. FIRE-FIGHTING MEASURES**Suitable extinguishing media:**

Water, Water spray, High volume water jet.

Unsuitable extinguishing media:

Dry powder, Sand, Foam

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

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

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 allow material to contaminate ground water system.
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.

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:	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.
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 protection:	Usual safety precautions while handling the product will provide adequate protection against this potential effect.
Hygiene measures	Follow good housekeeping practices. When using, do not eat, drink or smoke.

Exposure limit values

Magnesiumoxide, MgO

Austria - MAKs	6 mg/m ³
Belgium - 8 Hr VLE	10 mg/m ³
France - Valeurs Limites d'exposition (VLE)	10 mg/m ³
Germany (DFG) - MAK	6 mg/m ³
Netherlands - OEL - MACs:	10 mg/m ³
Norway - 8 Hr:	10 mg/m ³
UK EH40 MEL (TWA):	10 mg/m ³

Copper sulphate, CuSO4

Finland - Occupational Exposure Limits - 8 hour	1 mg/m ³ TWA
---	-------------------------

Manganese sulphate, MnSO4

Belgium - 8 Hr VLE	0.2 mg/m ³
Finland - Occupational Exposure Limits - 8 hour	0.5 mg/m ³
Netherlands - OEL - MACs:	1 mg/m ³
Norway - 8 Hr:	2.5 mg/m ³
UK EH40 MEL (TWA):	5 mg/m ³

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Physical State: Solid
Appearance: Granular
Color: Brown, Pink, Greenish
Odor: No detectable odor

Important Health Safety and Environmental Information

Solubility: Coating not soluble, release nutrients through coating

Other information

Bulk density: 800 - 1100 kg/m³
Decomposition temperature: > 150°C

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. Flammable materials.
Hazardous decomposition products: Thermal decomposition can lead to release of irritating gases and vapours.

11. TOXICOLOGICAL INFORMATION

Component information

Zinc sulphate, ZnSO₄
LD50/oral/rat = 2949 mg/kg

Copper sulphate, CuSO₄
LD50/oral/rat = 960 mg/kg

Manganese sulphate, MnSO₄
LD50/oral/rat = 9 g/kg

Biuret
LD50/oral/rat = > 5 g/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

Component information

Magnesiumoxide, MgO

Ecotoxicity: No information available

Zinc sulphate, ZnSO4

Ecotoxicity: EC50/48h/daphnia =1.7 mg/l

Copper sulphate, CuSO4

Ecotoxicity: EC50/48h/daphnia =0.8 mg/l

Manganese sulphate, MnSO4

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

Biuret

Ecotoxicity: No information available

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

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.

International Inventories

Components	EC-No.	EU - NLPL:	PICCS:	ENCS:	DSL:	TSCA:	CHINA:	AICS:
<i>Magnesiumoxide, MgO</i>	215-171-9				Present	XU		
<i>Zinc sulphate, ZnSO4</i>	231-793-3		Present				Present	Present
<i>Copper sulphate, CuSO4</i>	029-004-00-0		Present	1-300	Present	Listed	Present	Present
<i>Manganese sulphate, MnSO4</i>	025-003-00-4		Present	1-477	Present	XU	Present	Present
<i>Biuret</i>	203-559-0				Present	T		

16. OTHER INFORMATION

Text of R Phrases mentioned in Section 2

R22 - Harmful if swallowed.

R36/38 - Irritating to eyes and skin.

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.

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Reason for revision:

None

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