



Material Safety Data Sheet

According to EC Regulation 1907/2006

Print date: 01-Oct-2008***

Revision Number: 2***

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

Identification of the substance or preparation

MSDS Ref. No.: 8722.01.08
 Product name: Sierrablen 28+5+5+Fe
 Synonyms: Sierrablen 28+2.2+4.1+Fe

Use of the Substance/Preparation

Company/Undertaking Identification

- Scotts International BV
 Nijverheidsweg 1-5
 6422 PD Heerlen (NL)
 Tel: ++31 (0) 45-5609100
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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
Magnesium oxide, MgO	1309-48-4	< 1%	215-171-9	NE
Iron sulphate, FeSO ₄ +1H ₂ O	7720-78-7	1 - 5%	231-753-5	Xn;R22
Ammonium nitrate, NH ₄ NO ₃	6484-52-2	10 - 25%	229-347-8	O;R08
Biuret	108-19-0	1 - 5%	203-559-0	Xi;R36/37/38

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Components	CAS-No	Weight %	EC-No.	Classification
Calcium sulphate dihydrate, CaSO ₄ +2H ₂ O	10101-41-4	< 1%	231-900-3	NE
Sulphur, S	7704-34-9	5 - 10%	NE	Xi;R36/37/38 ***

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 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.

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:

In the event of fire and/or explosion do not breathe fumes. Wear self contained breathing apparatus for fire fighting if necessary. Evacuate area and fight fire from a safe distance.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Avoid dust formation. Ensure adequate ventilation.

Environmental precautions:

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

Methods for cleaning up:

Shovel or sweep up. Use up product completely. Packaging material is industrial waste.

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.

Hygiene measures

Follow good housekeeping practices. When using, do not eat, drink or smoke. Keep away from food, drink and animal feeding stuffs.

Exposure limit values*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

Portugal - TWAs

10 mg/m³ TWA***

Spain - Valores Limite Ambientales - VLE

10 mg/m³ VLA-ED***

UK EH40 WEL:

10 mg/m³*Iron sulphate, FeSO₄+1H₂O*

Belgium - 8 Hr VLE

1 mg/m³

Finland - Occupational Exposure Limits - 8 hour

1 mg/m³

Netherlands - OEL - MACs:	1 mg/m ³
Norway - 8 h:	0.01 mg/m ³
Portugal - TWAs	1 mg/m ³ TWA***
Spain - Valores Limite Ambientales - VLE	1 mg/m ³ VLA-ED***
UK EH40 WEL:	LTEL (8 hr TWA) 1 mg/m ³ STEL (15 min) 2mg/m ³

Ammonium nitrate, NH4NO3

Czech Republic OEL = 10.0 mg/m³ TWA***

Calcium sulphate dihydrate, CaSO4+2H2O

Belgium - 8 Hr VLE	10 mg/m ³ TWA***
France INRS (VME)	10 mg/m ³ VME***
Germany TRGS900:	6 mg/m ³ TWA***
Germany (DFG) - MAK	1.5 mg/m ³ MAK 4 mg/m ³ MAK***
Portugal - TWAs	10 mg/m ³ TWA***
Spain - Valores Limite Ambientales - VLE	10 mg/m ³ VLA-ED***
UK EH40 WEL:	10 mg/m ³ TWA 4 mg/m ³ TWA

Sulphur, S

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

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Physical State:	Solid***
Appearance:	Granular
Color:	Brown, Pink, Greenish
Odor:	No information available

Important Health Safety and Environmental Information

Decomposition temperature:	> 150°C
Solubility:	Coating not soluble, release nutrients through coating
Flammability (solid, gas):	Non-flammable

Other information

Bulk density:	800 - 1100 kg/m ³
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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:	Oxidizing agent.
Hazardous decomposition products:	No decomposition if stored normally. Thermal decomposition can lead to release of irritating gases and vapours.

11. TOXICOLOGICAL INFORMATION

Component information

Iron sulphate, FeSO₄+1H₂O

LD50/oral/rat = 1389 mg/kg

Ammonium nitrate, NH₄NO₃

LD50/oral/rat = 410 mg/kg

Biuret

LD50/oral/rat = > 5 g/kg

Sulphur, S

LD50/oral/rat = > 2000 mg/kg

LD50/dermal/rat = > 2000 mg/kg

LC50/inhalation/4h/rat = > 5,4 mg/l

Other information on acute toxicity:

No information available

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)

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

Ammonium nitrate, NH₄NO₃

Ecotoxicity effects

EC50/48h/daphnia =100 µg/l
LC50/96h/rainbow trout =10 mg/l
EC50/72h/algae = 74000 µg/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

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.
R11 - Highly flammable.
R22 - Harmful if swallowed.

16. OTHER INFORMATION

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

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