



Safety Data Sheet

According to EC Directive 2001/58/EC

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

Identification of the substance or preparation

Product code: 4250.01.08
Product name: Sierrablen 16+8+16+MgO+Fe
Synonyms: Sierrablen 16+3.5+13.3+Mg+Fe

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
Magnesiumsulphate, MgSO ₄	7487-88-9	5 - 10%	231-298-2	Xi;R36/37/38
Ammoniumnitrate, NH ₄ NO ₃	6484-52-2	5 - 10%	229-347-8	O;R08
Magnesiumoxide, MgO	1309-48-4	1 - 5%	215-171-9	NE
Ironsulphate, FeSO ₄ +1H ₂ O	7720-78-7	1 - 5%	231-753-5	R52/53 Xn;R22
Biuret	108-19-0	0.1 - 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:

Use dry chemical, CO₂, water spray or "alcohol" foam.

Extinguishing media which must not be used for safety reasons:

No information available.

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

Product smoulders! In case of fire, cool with water or waterspray. Thermal decomposition can lead to release of irritating gases and vapors.

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:

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

Occupational exposure controls

Engineering measures to reduce exposure: Ensure adequate ventilation.

Personal protective equipment

Respiratory protection: Not applicable

Hand protection: Pvc or other plastic material gloves.

Eye 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.

Environmental exposure controls No data available

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

Ironsulphate, FeSO4+1H2O

Belgium - 8 Hr VLE	1 mg/m ³
Finland - Occupational Exposure Limits - 8 hour	1 mg/m ³
Netherlands - OEL - MACs:	1 mg/m ³
Norway - 8 Hr:	0.01 mg/m ³
UK EH40 MEL (TWA):	1 mg/m ³

9. PHYSICAL AND CHEMICAL PROPERTIES:

General Information

Physical State: Solid
Appearance: granular
Color: Brown, Pink, Grey
Odor: Not significant

Important Health Safety and Environmental Information

Solubility: Coating not soluble, release nutrients through coating

Other information

Bulk density: 973 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: Oxidising agents.

Hazardous decomposition products: Carbon monoxide Nitrogen oxides (NOx) Ammonia Hydrogen chloride gas

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Component Information No information available

Ironsulphate, FeSO₄+1H₂O

LD50/oral/rat =

1185 mg/kg

Other information on acute toxicity:

No information available

Product information

Local effects

Skin irritation: May cause skin irritation in susceptible persons.

Eye irritation: Contact with eyes may cause irritation.

Inhalation May cause sensitization by inhalation.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

12. ECOLOGICAL INFORMATION

Product information

Component Information

Magnesiumsulphate, MgSO₄

Ecotoxicity: No information available

Ammoniumnitrate, NH₄NO₃

Ecotoxicity: LC50/96h/rainbow trout =74000 µg/l

Magnesiumoxide, MgO

Ecotoxicity: No information available

Ironsulphate, FeSO₄+1H₂O

<i>Ammoniumnitrate, NH4NO3</i>	229-347-8		Present	1-395	Present	XU	Present	Present	KE-01715
<i>Magnesiumoxide, MgO</i>	215-171-9								
<i>Ironsulphate, FeSO4+1H2O</i>	231-753-5								
<i>Biuret</i>	203-559-0								

16. OTHER INFORMATION

Text of R Phrases mentioned in Section 2

- R 8 - Contact with combustible material may cause fire.
- R22 - Harmful if swallowed.
- R36/37/38 - Irritating to eyes, respiratory system and skin.
- R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Prepared by: Regulatory Affairs Department

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End of Safety Data Sheet