



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

MSDS Ref. No.: 4255.01.08
Product name: Sierrablen 22+6+11

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
Ammoniumnitrate, NH ₄ NO ₃	6484-52-2	10 - 25%	229-347-8	O;R08
Sulphur, S	7704-34-9	5 - 10%	231-722-6	Xi;R36/37/38
Potassiumnitrate, KNO ₃	7757-79-1	1 - 5%	231-818-8	O;R08
Ironsulphate, FeSO ₄ +1H ₂ O	7720-78-7	< 1%	231-753-5	Xn;R22
Magnesiumoxide, MgO	1309-48-4	< 1%	215-171-9	NE
Sodium molybdate, Na ₂ MoO ₄ +2H ₂ O	7631-95-0	< 1%	231-298-2	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.

Extinguishing media which must not be used for safety reasons:

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:	Should not be released into the environment.
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. Sweep particles from driveways, curbs, etc. immediately following application, to prevent staining of concrete, metal and woodsurfaces. Keep away from swimmingpools.

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 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.

Exposure limit values*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

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

Sodium molybdate, Na₂MoO₄·2H₂O

Finland - Occupational Exposure Limits - 8 hour	6 mg/m ³
France - Valeurs Limites d'exposition (VLE)	5 mg/m ³

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Physical State:	Solid
Appearance:	Granular
Color:	Brown, Pink, Greenish

Odor: None

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

Ammoniumnitrate, NH₄NO₃

LD₅₀/oral/rat = 410 mg/kg

Sulphur, S

LD₅₀/oral/rat = > 2000 mg/kg

LC₅₀/inhalation/8h/rat = 2.56 mg/L

LD₅₀/dermal/rat = > 2000 mg/kg

Potassiumnitrate, KNO₃

LD₅₀/oral/rat = 3750 mg/kg

Ironsulphate, FeSO₄+1H₂O

LD₅₀/oral/rat = 1185 mg/kg

Sodium molybdate, Na₂MoO₄+2H₂O

LD₅₀/oral/rat = 4000 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 diarrhea .

Other information on acute toxicity: No information available

12. ECOLOGICAL INFORMATION

Product information

Component information

Ammoniumnitrate, NH₄NO₃

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

Sulphur, S

Ecotoxicity: LC50/96h/rainbow trout =866 mg/l

Potassiumnitrate, KNO₃

Ecotoxicity: LC50/96h/rainbow trout =22.500 µg/l

Ironsulphate, FeSO₄+1H₂O

Ecotoxicity: EC50/48h/daphnia => 100 mg/l
LC50/96h/rainbow trout =>72.5 mg/l (6d)
EC50/72h/algae = 22 mg/l

Magnesiumoxide, MgO

Ecotoxicity: No information available

Sodium molybdate, Na₂MoO₄+2H₂O

Ecotoxicity: LC50/96h/rainbow trout => 2800 g/l

No ecological information is known on the product

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products: 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>Ammoniumnitrate, NH₄NO₃</i>	229-347-8				Present	XU		
<i>Sulphur, S</i>	231-722-6				Present	XU		
<i>Potassiumnitrate, KNO₃</i>	231-818-8				Present	XU		
<i>Ironsulphate, FeSO₄+1H₂O</i>	231-753-5				Present	XU		
<i>Magnesiumoxide, MgO</i>	215-171-9				Present	XU		
<i>Sodium molybdate, Na₂MoO₄+2H₂O</i>	231-298-2				Present	XU		

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.

Reason for revision:

None

Prepared by:

Regulatory Affairs Department.

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End of Safety Data Sheet