



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.: 4202.01.02
Product name: Sierrablen 25+5+10+Fe
Synonyms: Sierrablen 25+2.2+8.3+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
Ironsulphate, FeSO ₄ +1H ₂ O	7720-78-7	5 - 10%	231-753-5	Xn;R22
Ammoniumnitrate, NH ₄ NO ₃	6484-52-2	1 - 5%	229-347-8	O;R08
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:

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:

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.

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.

Exposure limit values

Environmental exposure controls No data available

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, greenish
Odor:	None

Important Health Safety and Environmental Information

Solubility: Coating not soluble, release nutrients through coating

Other information

Bulk density:	800 - 1100 kg/m ³
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**Acute toxicity****Component information***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 diarrhea .

Other information on acute toxicity:

No information available

12. ECOLOGICAL INFORMATION**Product information****Component information***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

*Ammoniumnitrate, NH4NO3***Ecotoxicity:**

LC50/96h/rainbow trout =74000 µg/l

*Biuret***Ecotoxicity:**

No information available

Other information

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

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 regulated

ICAO

UN-No: Not regulated

IATA

UN-No: Not regulated

IIMDG

UN-No: Not regulated

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:	KECL:
<i>Ironsulphate, FeSO₄+1H₂O</i>	231-753-5				Present	XU			
<i>Ammoniumnitrate, NH₄NO₃</i>	229-347-8				Present	XU			
<i>Biuret</i>	203-559-0				Present	T			

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.

Prepared by: Regulatory Affairs Department

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End of Safety Data Sheet