



Material Safety Data Sheet

According to EC Directive 2001/58/EC

Print date: 12-Jun-2007***

Revision Number: 3***

Revision date: 12-Jun-2007***

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

Identification of the substance or preparation

MSDS Ref. No.: 4191.01.01
Product name: Sierrablen Plus 24+5+13

Use of the Substance/Preparation

Recommended use: Granulated 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: • +44 (0)208 762 8322

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
Biuret***	108-19-0	1 - 5%	203-559-0	Xi;R36/37/38
Calcium sulphate dihydrate, CaSO ₄ +2H ₂ O***	10101-41-4	1 - 5%	231-900-3	NE
Sulphur, S***	7704-34-9	5 - 10%	231-722-6	F; R11 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

Revision date: 12-Jun-2007***

Page 1 of 6

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:
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:
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 contaminate surface water.

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:**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*Ammoniumnitrate, NH₄NO₃*

Czech Republic OEL

Listed***

Calcium sulphate dihydrate, CaSO₄+2H₂O

Austria - MAKs

6 mg/m³ MAK***

Belgium - 8 Hr VLE

10 mg/m³ TWA***

France INRS (VME)

10 mg/m³ VME***

Germany TRGS900:

6 mg/m³ TWA***

Germany (DFG) - MAK

1.5 mg/m³ MAK

Netherlands - OEL - MACs:

0.5 mg/m³ MAC***

Portugal - TWAs

10 mg/m³ TWA***

Spain - Valores Limite Ambientales - VLE

10 mg/m³ VLA-ED***

UK EH40 WEL:

10 mg/m³ TWA

4 mg/m³ TWA

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

Flammability (solid, gas): Non-flammable
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.
Hazardous decomposition products: No decomposition if stored normally
 Thermal decomposition can lead to release of irritating gases and vapours

11. TOXICOLOGICAL INFORMATION

Component information

Ammoniumnitrate, NH₄NO₃

LD50/oral/rat = 410 mg/kg

Biuret

LD50/oral/rat = > 5 g/kg

Sulphur, S

LD50/oral/rat = > 2200 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

Ammoniumnitrate, NH₄NO₃

Ecotoxicity effects

EC50/48h/daphnia =100 µg/l
LC50/96h/rainbow trout =10 µg/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.

15. REGULATORY INFORMATION

ICPE (FR): Classified installation : article 1331

16. OTHER INFORMATION

Text of R Phrases mentioned in Section 2

R 8 - Contact with combustible material may cause fire.

R11 - Highly flammable. ***

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.

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