

# Scotts. Material Safety Data Sheet

# According to EC Regulation 1907/2006

2\*\*\* Print date: 01-Oct-2008\*\*\* Revision Number: Revision date: 01-Oct-2008\*\*\*

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

# Identification of the substance or preparation

MSDS Ref. No.: 8723.01.08

Sierrablen 27+5+5+Fe **Product name:** Synonyms: Sierrablen 27+2.2+4.1+Fe

# **Use of the Substance/Preparation**

MSDS Ref. No.: 8723.01.08

Company/Undertaking Scotts International BV

Identification Nijverheidsweg 1-5

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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, FeSO4+1H2O	7720-78-7	1 - 5%	231-753-5	Xn;R22
Ammonium nitrate, NH4NO3	6484-52-2	10 - 25%	229-347-8	O;R08
Biuret	108-19-0	1 - 5%	203-559-0	Xi;R36/37/38

Revision date: 01-Oct-2008\*\*\* Page 1 of 7 MSDS Ref. No.: 8723.01.08 Sierrablen 27+5+5+Fe

Components	CAS-No	Weight %	EC-No.	Classification
Calcium sulphate dihydrate, CaSO4+2H2O	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 vommiting.

**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.

### MSDS Ref. No.: 8723.01.08 Sierrablen 27+5+5+Fe

# 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/m<sup>3</sup> Belgium - 8 Hr VLE 10 mg/m<sup>3</sup>

= 5 mg/m3 TWA\*\*\* Czech Republic OEL 10 mg/m<sup>3</sup> France - Valeurs Limites d'exposition (VLE) 10 mg/m<sup>3</sup> VME\*\*\* France INRS (VME)

Germany (DFG) - MAK 6 mg/m<sup>3</sup> Netherlands - OEL - MACs: 10 mg/m<sup>3</sup> Norway - 8 h: 10 mg/m<sup>3</sup>

10 mg/m<sup>3</sup> TWA\*\*\* Portugal - TWAs 10 mg/m<sup>3</sup> VLA-ED\*\*\* Spain - Valores Limite Ambientales - VLE

UK EH40 WEL: 10 mg/m<sup>3</sup>

Iron sulphate, FeSO4+1H2O

Belaium - 8 Hr VLE  $1 \text{ mg/m}^3$ Finland - Occupational Exposure Limits - 8 hour 1 mg/m<sup>3</sup>

Revision date: 01-Oct-2008\*\*\* Page 3 of 7

### MSDS Ref. No.: 8723.01.08 Sierrablen 27+5+5+Fe

Netherlands - OEL - MACs: 1 mg/m<sup>3</sup> Norway - 8 h: 0.01 mg/m<sup>3</sup> 1 mg/m<sup>3</sup> TWA\*\*\* Portugal - TWAs 1 mg/m<sup>3</sup> VLA-ED\*\*\* Spain - Valores Limite Ambientales - VLE

**UK EH40 WEL:** LTEL (8 hr TWA) 1 mg/m<sup>3</sup> STEL (15 min) 2mg/m<sup>3</sup>

Ammonium nitrate, NH4NO3

Czech Republic OEL  $= 10.0 \text{ mg/m}^3 \text{ TWA***}$ 

Calcium sulphate dihydrate, CaSO4+2H2O

Belgium - 8 Hr VLE 10 mg/m3 TWA\*\*\* France INRS (VME) 10 mg/m3 VME\*\*\* **Germany TRGS900:** 6 mg/m<sup>3</sup> TWA\*\*\* Germany (DFG) - MAK 1.5 mg/m<sup>3</sup> MAK 4 mg/m<sup>3</sup> MAK\*\*\* 10 mg/m<sup>3</sup> TWA\*\*\* Portugal - TWAs

Spain - Valores Limite Ambientales - VLE 10 mg/m3 VLA-ED\*\*\* UK EH40 WEL: 10 mg/m³ TWA

4 mg/m³ TWA

Sulphur, S

VME (poussières) = 10 mg/m<sup>3</sup> France INRS (VME)

# 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

Non-flammable Flammability (solid, gas):

**Other information** 

**Bulk density:** 800 - 1100 kg/m<sup>3</sup>

# 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** 

No decomposition if stored normally. Thermal decomposition can lead to release of products:

irritating gases and vapours.

## MSDS Ref. No.: 8723.01.08

# 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 > 2000 mg/kg > 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

Revision date: 01-Oct-2008\*\*\*

Page 5 of 7

MSDS Ref. No.: 8723.01.08 Sierrablen 27+5+5+Fe

**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.

# MSDS Ref. No.: 8723.01.08

# 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** 

Revision date: 01-Oct-2008\*\*\*