

# Scotts Material Safety Data Sheet

### According to EC Regulation 1907/2006

Print date: 20-May-2009\*\*\* Revision date: 07-Oct-2008 Revision Number: 2

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

Identification of the substance or preparation

MSDS Ref. No.: 4193.01.01

Product name: Sierrablen® Plus 20+20+8

Use of the Substance/Preparation

Recommended use: Granulated fertilizer.

Company/Undertaking Scotts International BV

Identification 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 (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
Iron sulphate, FeSO4+1H2O	7720-78-7	< 1%	231-753-5	Xn;R22
Sulphur, S	7704-34-9	5 - 10%	231-722-6***	Xi:R38-43***
Biuret	108-19-0	1 - 5%	203-559-0	Xi;R36/37/38
Calcium sulphate dihydrate, CaSO4+2H2O	10101-41-4	1 - 5%	231-900-3	NE

Revision date: 07-Oct-2008 Page 1 of 6 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:

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.

Revision date: 07-Oct-2008 Page 2 of 6

#### MSDS Ref. No.: 4193.01.01 Sierrablen® Plus 20+20+8

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** 

Iron sulphate, FeSO4+1H2O

 Norway - 8 h:
 0.01 mg/m³

 Portugal - TWAs
 1 mg/m³ TWA

 Spain - Valores Limite Ambientales - VLE
 1 mg/m³ VLA-ED

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

STEL (15 min) 2mg/m<sup>3</sup>

STEL (15 min) 2mg/r

Sulphur, S

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

Calcium sulphate dihydrate, CaSO4+2H2O

 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

 4 mg/m³ MAK

Portugal - TWAs10 mg/m³ TWASpain - Valores Limite Ambientales - VLE10 mg/m³ VLA-ED

Revision date: 07-Oct-2008 Page 3 of 6

**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

**Decomposition temperature:** > 150°C

**Solubility:** Coating not soluble, release nutrients through coating

Flammability (solid, gas): Non-flammable

**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: 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**

Iron sulphate, FeSO4+1H2O

**LD50/oral/rat** = 1389 mg/kg

Sulphur, S

LD50/oral/rat = > 2000 mg/kg LD50/dermal/rat = > 2000 mg/kg > 2000 mg/kg > 5,4 mg/l

Biuret

**LD50/oral/rat** = > 5 g/kg

#### **Product information**

Revision date: 07-Oct-2008 Page 4 of 6

# MSDS Ref. No.: 4193.01.01 Sierrablen® Plus 20+20+8

**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

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

Revision date: 07-Oct-2008 Page 5 of 6

MSDS Ref. No.: 4193.01.01 Sierrablen® Plus 20+20+8

# 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

R22 - Harmful if swallowed.

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** 

Revision date: 07-Oct-2008 Page 6 of 6