

# Scotts. Material Safety Data Sheet

#### According to EC Directive 1907/2006

1

Print date: 04-Mar-2008

Revision Number:

Revision date: 04-Mar-2008

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

Identification of the substance or preparation

MSDS Ref. No.: Product name:	8667.01.01 Sierrablen Flora 15+9+9+3MgO
Use of the Substance/Preparation	<u>1</u>
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 (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
Potassium sulphate, K2SO4	7778-80-5	1 - 5%	231-915-5	NE
Ammonium sulphate, (NH4)2SO4	7783-20-2	10 - 25%	231-984-1	NE
di ammonium phosphate, (NH4)2HPO4	7783-28-0	5 - 10%	231-987-8	NE

#### Sierrablen Flora 15+9+9+3MgO

Components	CAS-No	Weight %	EC-No.	Classification
Potassium chloride, KCl	7447-40-7	< 1%	231-211-8	NE
mono ammonium phosphate, M.A.P.	7722-76-1	5 - 10%	231-764-5	NE
Calciumphosphate, Ca3(PO4)2	7758-87-4	1 - 5%	231-840-8	NE
Coating	PROPRIETARY	5 - 10%	N.E.	NE
Magnesium oxide, MgO	1309-48-4	1 - 5%	215-171-9	NE
Magnesium sulphate, MgSO4	7487-88-9	1 - 5%	231-298-2	NE
Potassium nitrate, KNO3	7757-79-1	10 - 25%	231-818-8	O;R08
Calcium sulphate dihydrate, CaSO4+2H2O	10101-41-4	< 1%	231-900-3	NE
Inert Ingredients	PROPRIETARY	5 - 10%	N.E.	NE
Ammonium nitrate, NH4NO3	6484-52-2	> 25%	229-347-8	O;R08

#### NE = Non-Established

#### For the full text of the R phrases mentioned in this Section, see Section 16

4. FIRST AID MEASURES		
General advice:	Possible symptoms are coughing and/or dyspnoea. If symptoms persist, call a physician.	
Ingestion:	If conscious, drink plenty of water. Do not induce vomiting. Rinse mouth. Consult a physician if necessary.	
Inhalation:	Dusty conditions are unlikely if product is used as intended. However, if prolonged inhalation of dust occurs, remove victim 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. Rinse with plenty of water.	
Eye contact:	Flush eyes with water as a precaution. If eye irritation persists, consult a specialist.	
	5. FIRE-FIGHTING MEASURES	

# Suitable extinguishing media: Water.

#### Unsuitable extinguishing media:

Dry powder, Sand, Foam, CO2

# Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases:

Burning produces obnoxious and toxic fumes. In case of fire, cool with water or waterspray. In case of fire, the product will smoulder even without the presence of external oxygen. In these conditions the product will show self sustaining decomposition. The best method to extinguish the fire is to cool the decomposition front with water.

#### 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.

#### Specific methods:

In case of fire seperate from centre of fire.

6. ACCIDENTAL RELEASE MEASURES

#### **Personal precautions:**

Avoid dust formation. Sweep-up to prevent slipping hazard.

**Environmental precautions:** Prevent product from entering drains. Do not contaminate surface water.

#### Methods for cleaning up:

Shovel or sweep up.

# 7. HANDLING AND STORAGE

#### Handling:

**Technical measures/precautions:** 

Safe handling advice:

#### Storage:

Technical measures/storage conditions:

Avoid dust formation.

Keep away from flammable material. When using do not eat or drink.

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.

Oxidising and spontaneously flammable products

Incompatible products:

Specific use(s):

Packaging material:

Bags or Bulk

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:	Not applicable.

#### Hygiene measures

#### **Exposure limit values**

Follow good housekeeping practices. When using, do not eat, drink or smoke. Keep away from food, drink and animal feeding stuffs.

Magnesium oxide, MgO	
Austria - MAKs	6 mg/m <sup>3</sup>
Belgium - 8 Hr VLE	10 mg/m <sup>3</sup>
Czech Republic OEL	= 5 mg/m³ TWA
France - Valeurs Limites d'exposition (VLE)	10 mg/m <sup>3</sup>
France INRS (VME)	10 mg/m <sup>3</sup> 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>
Portugal - TWAs	10 mg/m³ TWA
Spain - Valores Limite Ambientales - VLE	10 mg/m <sup>3</sup> VLA-ED
UK EH40 WEL:	10 mg/m <sup>3</sup>
Calcium sulphate dihydrate, CaSO4+2H2O	
France INRS (VME)	10 mg/m <sup>3</sup> VME
Germany (DFG) - MAK	1.5 mg/m <sup>3</sup> MAK
	4 mg/m³ MAK
Netherlands - OEL - MACs:	0.5 mg/m <sup>3</sup> MAC
Portugal - TWAs	10 mg/m³ TWA
UK EH40 WEL:	10 mg/m³ TWA

Ammonium nitrate, NH4NO3 Czech Republic OEL

 $= 10.0 \text{ mg/m}^3 \text{ TWA}$ 

4 mg/m<sup>3</sup> TWA

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### **General Information**

Physical State:	Solid
Appearance:	Resin Coated Granules
Color:	Brown, Blue, Greenish
Odor:	No information available

#### Important Health Safety and Environmental Information

Bulk density:	990 - 1036 kg/m³
Solubility:	Coating not soluble, release nutrients through coating
Explosive properties:	Doesn't present explosion hazard
Flammability (solid, gas):	Non-flammable

Other information

**Oxidising properties:** 

Incompatible with oxidising agents.

# **10. STABILITY AND REACTIVITY**

Stability:

Stable under recommended storage conditions.

MSDS Ref. No.: 8667.01.01	Sierrablen Flora 15+9+9+3MgO
Conditions to avoid:	Keep away from open flames, hot surfaces and sources of ignition.
Materials to avoid:	Oxidizing agent.
Hazardous decomposition products:	No decomposition if stored normally. Hazardous decomposition products:. Poisonous gasses / vapours .
	11. TOXICOLOGICAL INFORMATION

## **Component information**

Potassium sulphate, K2SO4 LD50/oral/rat =	6600 mg/kg
Ammonium sulphate, (NH4)2SO4 LD50/oral/rat =	2000mg/kg
Potassium nitrate, KNO3 LD50/oral/rat =	3750mg/kg
Ammonium nitrate, NH4NO3 LD50/oral/rat =	410 mg/kg
Product information	
LD50/oral/rat =	> 10 gr/kg
Local effects	
Skin effects:	May cause skin irritation in susceptible persons
Eye effects:	May cause eye irritation with susceptible persons
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**

Potassium sulphate, K2SO4 Ecotoxicity effects	LC50/96h/rainbow trout =890 mg/l
Potassium chloride, KCl Ecotoxicity effects	No information available

mono ammonium phosphate, M.A.P. **Ecotoxicity effects** 

No information available

Ammonium nitrate, NH4NO3 Ecotoxicity effects

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

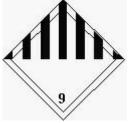
# 13. DISPOSAL CONSIDERATIONS

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:	N.A.
IMO / IMDG	
UN-No: Proper shipping name: Hazard Class: Packing group:	2071 AMMONIUM NITRATE BASED FERTILIZER 9 III



**15. REGULATORY INFORMATION** 

#### Indication of danger:

This product does not have to be classified according to the EU regulations.

# **15. REGULATORY INFORMATION**

# **16. OTHER INFORMATION**

#### Text of R Phrases mentioned in Section 3

R 8 - Contact with combustible material may cause fire.

#### 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