



# Material Safety Data Sheet

According to EC Regulation 1907/2006

Print date: 20-May-2009\*\*\*

Revision Number: 2

Revision date: 30-Sep-2008

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

### Identification of the substance or preparation

MSDS Ref. No.: 8665.01.02  
Product name: Landscaper Pro Osmocote® Flora 15+9+11+3MgO

### 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 (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
Ammonium nitrate, NH <sub>4</sub> NO <sub>3</sub>	6484-52-2	> 25%	229-347-8	O;R08
Calcium sulphate dihydrate, CaSO <sub>4</sub> +2H <sub>2</sub> O	10101-41-4	1 - 5%	231-900-3	NE
Magnesium oxide, MgO	1309-48-4	1 - 5%	215-171-9	NE

Components	CAS-No	Weight %	EC-No.	Classification
Potassium nitrate, KNO <sub>3</sub>	7757-79-1	10 - 20%	231-818-8	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 casualty 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:**

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:**

Danger of toxic gases in smoke in case of fire.

**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.

#### 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:**

Avoid dust formation.

**Safe handling advice:**

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

**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.

**Incompatible products:**

Oxidising and spontaneously flammable products

**Specific use(s):**

Granulated fertilizer.

**Packaging material:**

Bags or Bulk

## 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**

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

**Exposure limit values***Ammonium nitrate, NH<sub>4</sub>NO<sub>3</sub>*

Czech Republic OEL

= 10.0 mg/m<sup>3</sup> TWA*Calcium sulphate dihydrate, CaSO<sub>4</sub>+2H<sub>2</sub>O*

Belgium - 8 Hr VLE

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

France INRS (VME)

10 mg/m<sup>3</sup> VME

Germany TRGS900:

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

Germany (DFG) - MAK

1.5 mg/m<sup>3</sup> MAK4 mg/m<sup>3</sup> MAK

Portugal - TWAs

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

Spain - Valores Limite Ambientales - VLE

10 mg/m<sup>3</sup> VLA-ED

UK EH40 WEL:

10 mg/m<sup>3</sup> TWA4 mg/m<sup>3</sup> TWA*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/m <sup>3</sup> 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/m <sup>3</sup> TWA
Spain - Valores Limite Ambientales - VLE	10 mg/m <sup>3</sup> VLA-ED
UK EH40 WEL:	10 mg/m <sup>3</sup>

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### General Information

<b>Physical State:</b>	Solid
<b>Appearance:</b>	Granular
<b>Color:</b>	Brown, Grey, Greenish
<b>Odor:</b>	No information available

### Important Health Safety and Environmental Information

<b>Decomposition temperature:</b>	> 150°C
<b>Solubility:</b>	Coating not soluble, release nutrients through coating
<b>Flammability (solid, gas):</b>	Non-flammable

### Other information

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

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable under recommended storage conditions.
<b>Conditions to avoid:</b>	Keep away from open flames, hot surfaces and sources of ignition.
<b>Materials to avoid:</b>	Combustible material.
<b>Hazardous decomposition products:</b>	No decomposition if stored normally. Thermal decomposition can lead to release of irritating gases and vapours.

## 11. TOXICOLOGICAL INFORMATION

### Component information

<i>Ammonium nitrate, NH<sub>4</sub>NO<sub>3</sub></i>	
<b>LD<sub>50</sub>/oral/rat =</b>	410 mg/kg
<i>Potassium nitrate, KNO<sub>3</sub></i>	
<b>LD<sub>50</sub>/oral/rat =</b>	3750mg/kg

**Product information**

LD50/oral/rat = &gt; 10 gr/kg

**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****Aquatic toxicity:** No ecological information is known on the product**Component information***Ammonium nitrate, NH<sub>4</sub>NO<sub>3</sub>***Ecotoxicity effects**

EC50/48h/daphnia = 100 mg/l

LC50/96h/rainbow trout = 10 mg/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:** 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.

**ICPE (FR):** Classified installation : article 1230

**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**