



# Material Safety Data Sheet

According to EC Directive 2001/58/EC

Print date: 20-Jun-2007

Revision Number: 2

Revision date: 20-Jun-2007

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

### Identification of the substance or preparation

MSDS Ref. No.: 2103.02.02  
Product name: Peters Professional 10+30+20+2MgO  
Synonyms: Peters Professional 10+13.2+16.6+1.2Mg

### Use of the Substance/Preparation

Recommended use: Water soluble 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
Iron-DTPA	12389-75-2	1 - 5%	235-627-0	NE
Copper-EDTA	14025-15-1	< 1%	237-864-5	Xn;R22
Manganese-EDTA	15375-84-5	< 1%	239-407-5	NE
Sodium molybdate, Na <sub>2</sub> MoO <sub>4</sub> +2H <sub>2</sub> O	7631-95-0	< 1%	231-298-2	NE
Potassium nitrate, KNO <sub>3</sub>	7757-79-1	> 25%	231-818-8	O;R08

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

## 3. HAZARDS IDENTIFICATION

### 3. HAZARDS IDENTIFICATION

**Classification**

The product is classified and labelled in accordance with Directive 1999/45/EC

O - Oxidizing

**Most important hazards**

Contact with combustible material may cause fire.

### 4. FIRST AID MEASURES

- General advice:** Check the victim's state of consciousness, breathing and pulse; put in emergency position or revive.
- Ingestion:** Possible symptoms are nausea and/or vomiting. Clean mouth with water and drink afterwards plenty of water. If a person vomits when lying on his back, place him in the recovery position. Do not induce vomiting without medical advice. Consult a physician if necessary.
- Inhalation:** In the case of inhalation of aerosol/mist consult a physician if necessary. Possible symptoms are coughing and/or dyspnoea. If breathing is difficult, give oxygen. Move to fresh air.
- Skin contact:** If skin irritation persists, call a physician.
- Eye contact:** In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Protection of first-aiders:** Avoid contact with eyes. Use personal protective equipment.

### 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:**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**Specific methods:**

Dike and collect water used to fight fire.

### 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.

## 7. HANDLING AND STORAGE

**Handling:****Technical measures/precautions:**

Provide appropriate exhaust ventilation at places where dust is formed.

**Safe handling advice:**

Avoid dust formation. Avoid contact with skin and eyes.

**Storage:****Technical measures/storage conditions:**

Keep containers dry and tightly closed to avoid moisture absorption and contamination. 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:**

Keep away from:  
Flammable materials

**Specific use(s):**

Water soluble fertilizer.

**Packaging material:**

VCI (Germany)

Plastic bags  
5.1B

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering measures to reduce exposure:**

Ensure adequate ventilation.

**Occupational exposure controls****Personal protective equipment****Respiratory protection:**

In case of insufficient ventilation wear suitable respiratory equipment.

**Hand protection:**

PVC or other plastic material gloves.

**Eye/face protection:**

Tightly fitting safety goggles.

**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****Environmental exposure controls**

Avoid dust formation.

*Iron-DTPA*

Belgium - 8 Hr VLE

Finland - Occupational Exposure Limits - 8 hour

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

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

Netherlands - OEL - MACs:	0.1 mg/m <sup>3</sup> MAC
Norway - 8 h:	1 mg/m <sup>3</sup> TWA
Portugal - TWAs	1 mg/m <sup>3</sup> TWA
Spain - Valores Limite Ambientales - VLE	1 mg/m <sup>3</sup> VLA-ED

*Copper-EDTA*

Austria - MAKs	0.1 mg/m <sup>3</sup> MAK
Finland - Occupational Exposure Limits - 8 hour	1 mg/m <sup>3</sup> TWA

*Manganese-EDTA*

Belgium - 8 Hr VLE	0.2 mg/m <sup>3</sup> TWA
Czech Republic OEL	Listed
Germany (DFG) - MAK	0.5 mg/m <sup>3</sup> MAK

*Sodium molybdate, Na<sub>2</sub>MoO<sub>4</sub>+2H<sub>2</sub>O*

Austria - MAKs	5 mg/m <sup>3</sup> MAK
Belgium - 8 Hr VLE	5 mg/m <sup>3</sup> TWA
Czech Republic OEL	Listed
Finland - Occupational Exposure Limits - 8 hour	6 mg/m <sup>3</sup>
France - Valeurs Limites d'exposition (VLE)	5 mg/m <sup>3</sup>
France INRS (VME)	5 mg/m <sup>3</sup> VME
Netherlands - OEL - MACs:	5 mg/m <sup>3</sup> MAC
Norway - 8 h:	5 mg/m <sup>3</sup> TWA
Portugal - TWAs	0.5 mg/m <sup>3</sup> TWA
Spain - Valores Limite Ambientales - VLE	5 mg/m <sup>3</sup> VLA-ED
Sweden - OEL - 8 Hour	10 mg/m <sup>3</sup> LLV
	5 mg/m <sup>3</sup> LLV

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**General Information**

<b>Physical State:</b>	Solid
<b>Appearance:</b>	Powder
<b>Color:</b>	Off-white
<b>Odor:</b>	No information available

**Important Health Safety and Environmental Information**

<b>Solubility:</b>	Completely soluble
<b>Water solubility:</b>	+/- 30 - 45 kg/100L

**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. Burning produces obnoxious and toxic fumes.
<b>Materials to avoid:</b>	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***Copper-EDTA***LD50/oral/rat =** > 1000 mg/kg*Sodium molybdate, Na<sub>2</sub>MoO<sub>4</sub>+2H<sub>2</sub>O***LD50/oral/rat =** 4000 mg/kg*Potassium nitrate, KNO<sub>3</sub>***LD50/oral/rat =** 3750mg/kg**Product information****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***Sodium molybdate, Na<sub>2</sub>MoO<sub>4</sub>+2H<sub>2</sub>O***Ecotoxicity effects**

LC50/96h/rainbow trout =&gt; 2800 g/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: 1479  
Proper shipping name: Oxidizing solid, N.O.S..  
Hazard Class: 5.1  
Packing group: PG III  
Description: Potassiumnitrate

### IATA

UN-No: N.A.

### IMO / IMDG

UN-No: 1479  
Proper shipping name: Oxidizing solid, N.O.S..  
Hazard Class: 5.1  
Packing group: PG III  
Description: Potassiumnitrate



## 15. REGULATORY INFORMATION

### Indication of danger:

O - Oxidizing.



### R -phrase(s)

R 8 - Contact with combustible material may cause fire.

## 16. OTHER INFORMATION

## 16. OTHER INFORMATION

### Text of R Phrases mentioned in Section 2

R 8 - Contact with combustible material may cause fire.

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**