



# Material Safety Data Sheet

According to EC Directive 2001/58/EC

Print date: 27-Jun-2007

Revision Number: 4

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

### Identification of the substance or preparation

MSDS Ref. No.: 2114.02.02  
Product name: Peters Professional 27+15+12  
Synonyms: Peters Professional 27+6.5+10.0

### 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

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**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>
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## 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 => 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.

ICPE (FR): Classified installation : article 1230

**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.

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**End of Safety Data Sheet**