



# Material Safety Data Sheet

According to EC Directive 2001/58/EC

Print date: 21-Aug-2007

Revision Number: 3

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

### Identification of the substance or preparation

MSDS Ref. No.: 2112.02.02  
Product name: Peters Professional 20+10+20  
Synonyms: Peters Professional 20+4.4+16.6

### 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
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
Ammonium nitrate, NH <sub>4</sub> NO <sub>3</sub>	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*

## 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

<b>General advice:</b>	Check the victim's state of consciousness, breathing and pulse; put in emergency position or revive.
<b>Ingestion:</b>	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.
<b>Inhalation:</b>	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.
<b>Skin contact:</b>	If skin irritation persists, call a physician.
<b>Eye contact:</b>	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
<b>Protection of first-aiders:</b>	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:**

## 7. HANDLING AND STORAGE

<b>Technical measures/precautions:</b>	Provide appropriate exhaust ventilation at places where dust is formed.
<b>Safe handling advice:</b>	Avoid dust formation. Avoid contact with skin and eyes.
<b>Storage:</b>	
<b>Technical measures/storage conditions:</b>	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 .
<b>Incompatible products:</b>	Keep away from: Flammable materials
<b>Specific use(s):</b>	Water soluble fertilizer.
<b>Packaging material: VCI (Germany)</b>	Plastic bags 5.1B

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Engineering measures to reduce exposure:</b>	Ensure adequate ventilation.
<b><u>Occupational exposure controls</u></b>	
<b><u>Personal protective equipment</u></b>	
<b>Respiratory protection:</b>	In case of insufficient ventilation wear suitable respiratory equipment.
<b>Hand protection:</b>	PVC or other plastic material gloves.
<b>Eye/face protection:</b>	Tightly fitting safety goggles.
<b>Skin and body protection:</b>	Not applicable.
<b>Hygiene measures</b>	Follow good housekeeping practices. When using, do not eat, drink or smoke. Keep away from food, drink and animal feeding stuffs.
<b><u>Exposure limit values</u></b>	
<b><u>Environmental exposure controls</u></b>	Avoid dust formation.
 <i>Sodium molybdate, Na<sub>2</sub>MoO<sub>4</sub>·2H<sub>2</sub>O</i>	
Belgium - 8 Hr VLE	5 mg/m <sup>3</sup> TWA
Czech Republic OEL	= 5 mg/m <sup>3</sup> TWA
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

Ammonium nitrate,  $NH_4NO_3$   
Czech Republic OEL

= 10.0 mg/m<sup>3</sup> TWA

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### General Information

**Physical State:** Solid  
**Appearance:** Powder  
**Color:** Off-white  
**Odor:** No information available

### Important Health Safety and Environmental Information

**Bulk density:** 800 - 1100 kg/m<sup>3</sup>  
**Solubility:** Completely soluble  
**Water solubility:** +/- 30 - 45 kg/100L

### Other information

## 10. STABILITY AND REACTIVITY

**Stability:** Stable under recommended storage conditions.

**Conditions to avoid:** Keep away from open flames, hot surfaces and sources of ignition. Burning produces obnoxious and toxic fumes.

**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

Sodium molybdate,  $Na_2MoO_4 \cdot 2H_2O$   
**LD50/oral/rat =** 4000 mg/kg

Potassium nitrate,  $KNO_3$   
**LD50/oral/rat =** 3750mg/kg

Ammonium nitrate,  $NH_4NO_3$   
**LD50/oral/rat =** 410 mg/kg

### Product information

**Local effects**

<b>Skin effects:</b>	May cause skin irritation in susceptible persons
<b>Eye effects:</b>	May cause eye irritation with susceptible persons
<b>Inhalation:</b>	May cause sensitization by inhalation
<b>Ingestion:</b>	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

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

**Ecotoxicity effects**

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

**13. DISPOSAL CONSIDERATIONS**

<b>Waste Disposal Methods:</b>	Use up product completely. Packaging material is industrial waste
<b>Contaminated packaging:</b>	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, Ammoniumnitrate

**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, Ammoniumnitrate

**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 1331, 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**

