



Material Safety Data Sheet

According to EC Directive 2001/58/EC

Print date: 27-Aug-2007

Revision Number: 2

Revision date: 26-Jun-2007

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

Identification of the substance or preparation

MSDS Ref. No.: 2111.02.02
Product name: Peters Professional 20+10+20 No B
Synonyms: Peters Professional 20+4.4+16.6 No B

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 ₂ MoO ₄ +2H ₂ O	7631-95-0	< 1%	231-298-2	NE
Potassium nitrate, KNO ₃	7757-79-1	> 25%	231-818-8	O;R08
Ammonium nitrate, NH ₄ NO ₃	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

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:

7. HANDLING AND STORAGE

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.
<u>Occupational exposure controls</u>	
<u>Personal protective equipment</u>	
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.
<u>Exposure limit values</u>	
<u>Environmental exposure controls</u>	Avoid dust formation.
 <i>Sodium molybdate, Na₂MoO₄·2H₂O</i>	
Belgium - 8 Hr VLE	5 mg/m ³ TWA
Czech Republic OEL	= 5 mg/m ³ TWA
Finland - Occupational Exposure Limits - 8 hour	6 mg/m ³
France - Valeurs Limites d'exposition (VLE)	5 mg/m ³
France INRS (VME)	5 mg/m ³ VME
Netherlands - OEL - MACs:	5 mg/m ³ MAC
Norway - 8 h:	5 mg/m ³ TWA
Portugal - TWAs	0.5 mg/m ³ TWA
Spain - Valores Limite Ambientales - VLE	5 mg/m ³ VLA-ED
Sweden - OEL - 8 Hour	10 mg/m ³ LLV 5 mg/m ³ LLV

Ammonium nitrate, NH_4NO_3
Czech Republic OEL

= 10.0 mg/m³ 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/m³
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

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, Na₂MoO₄·2H₂O

Ecotoxicity effects

LC50/96h/rainbow trout => 2800 g/l

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: 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.

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