



Material Safety Data Sheet

According to EC Directive 2001/58/EC

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Revision Number: 1

Revision date: 23-Mar-2005

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

Identification of the substance or preparation

MSDS Ref. No.: 2106.02.02
Product name: Peters Professional 14+0+14+11CaO+3MgO
Synonyms: Peters Professional 14+0+11.6+1.8Mg+7.9Ca

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 ₂ MoO ₄ +2H ₂ O	7631-95-0	< 1%	231-298-2	NE
Calcium nitrate, Ca(NO ₃) ₂	13477-34-4	> 25%	233-332-1	O;R08 Xi;R36
Magnesiumnitrate hexahydrate, Mg(NO ₃) ₂ +6H ₂ O	13446-18-9	10 - 25%	233-826-7	O;R08
Ammoniumnitrate, NH ₄ NO ₃	6484-52-2	1 - 5%	229-347-8	O;R08
Potassium nitrate, KNO ₃	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

1 mg/m³ TWA

Finland - Occupational Exposure Limits - 8 hour	1 mg/m ³ TWA
Netherlands - OEL - MACs:	0.1 mg/m ³ MAC
Norway - 8 h:	1 mg/m ³ TWA
Portugal - TWAs	1 mg/m ³ TWA
Spain - Valores Limite Ambientales - VLE	1 mg/m ³ VLA-ED

Copper-EDTA

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

Manganese-EDTA

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

Sodium molybdate, Na₂MoO₄·2H₂O

Austria - MAKs	5 mg/m ³ MAK
Belgium - 8 Hr VLE	5 mg/m ³ TWA
Czech Republic OEL	Listed
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

Ammoniumnitrate, NH₄NO₃

Czech Republic OEL	Listed
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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

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

Other information

Bulk density:	800 - 1100 kg/m ³
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10. STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions.
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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

Copper-EDTA

LD50/oral/rat = > 1000 mg/kg

Sodium molybdate, Na₂MoO₄+2H₂O

LD50/oral/rat = 4000 mg/kg

Ammoniumnitrate, NH₄NO₃

LD50/oral/rat = 410 mg/kg

Potassium nitrate, KNO₃

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, Na₂MoO₄+2H₂O

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

Calcium nitrate, Ca(NO₃)₂

Ecotoxicity effects LC50/96h/rainbow trout =2400 mg/l

Ammoniumnitrate, NH₄NO₃
Ecotoxicity effectsEC50/48h/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, Magnesiumnitrate

IATA**UN-No:** N.A.**IMO / IMDG**

UN-No: 1479
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**15. REGULATORY INFORMATION**

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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.

R22 - Harmful if swallowed.

R36 - Irritating to eyes.

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