



Material Safety Data Sheet

According to EC Directive 2001/58/EC

Print date: 20-Jun-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.: 2104.02.02
Product name: Peters Professional 10+52+10
Synonyms: Peters Professional 10+22.7+8.3

Use of the Substance/Preparation

Recommended use: Water soluble fertilizer.

Company/Undertaking Identification

- Scotts International BV
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Tel: ++31 (0) 45-5609100
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2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature of the preparation

Components	CAS-No	Weight %	EC-No.	Classification
Potassium nitrate, KNO ₃	7757-79-1	1 - 5%	231-818-8	O;R08
Iron-DTPA	12389-75-2	1 - 5%	235-627-0	NE
Manganese-EDTA	15375-84-5	< 1%	239-407-5	NE
Copper-EDTA	14025-15-1	< 1%	237-864-5	Xn;R22
Sodium molybdate, Na ₂ MoO ₄ +2H ₂ O	7631-95-0	< 1%	231-298-2	NE

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

3. HAZARDS IDENTIFICATION

Classification

The product is non-dangerous in accordance with Directive 1999/45/EC

Most important hazards

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3. HAZARDS IDENTIFICATION

None

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. Never give anything by mouth to an unconscious person. Consult a physician if necessary.
- Inhalation:** Possible symptoms are coughing and/or dyspnoea. If not breathing, give artificial respiration. If symptoms persist, call a physician.
- Skin contact:** If skin irritation persists, call a physician.
- Eye contact:** Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.
- Protection of first-aiders:** Low hazard for usual industrial or commercial handling.

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:**
Sweep-up to prevent slipping hazard. Use personal protective equipment.
- Environmental precautions:**
Prevent product from entering drains. Do not contaminate surface water.
- Methods for cleaning up:**
Sweep up and shovel.

7. HANDLING AND STORAGE

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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:

No information available

Specific use(s):

Water soluble fertilizer.

Packaging material:

Plastic bags

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 disposable gloves.

Eye/face protection:

Safety glasses.

Skin and body protection:

Wear suitable protective clothing.

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

Prevent product from entering drains.

Iron-DTPA

Belgium - 8 Hr VLE

1 mg/m³ TWA

Finland - Occupational Exposure Limits - 8 hour

1 mg/m³ TWA

Netherlands - OEL - MACs:

0.1 mg/m³ MAC

Norway - 8 h:

1 mg/m³ TWA

Portugal - TWAs

1 mg/m³ TWA

Spain - Valores Limite Ambientales - VLE

1 mg/m³ VLA-ED

Manganese-EDTA

Belgium - 8 Hr VLE

0.2 mg/m³ TWA

Czech Republic OEL

Listed

Germany (DFG) - MAK

0.5 mg/m³ MAK

Copper-EDTA

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

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

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 in water
Water solubility:	+/- 30 - 45 kg/100L

Other information

Bulk density:	800 - 1200 kg/m ³
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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

Potassium nitrate, KNO₃

LD₅₀/oral/rat = 3750mg/kg

Copper-EDTA

LD₅₀/oral/rat = > 1000 mg/kg

Sodium molybdate, Na₂MoO₄·2H₂O

LD₅₀/oral/rat = 4000 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

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: No information available
UN-No: Not classified for transport

IATA**UN-No:** Not classified for transport**IMO / IMDG****UN-No:** Not classified for transport**15. REGULATORY INFORMATION****Indication of danger:**

This product does not have to be classified according to the EU regulations.

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