



# Material Safety Data Sheet

According to EC Directive 2001/58/EC

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

### Identification of the substance or preparation

**MSDS Ref. No.:** 3498.02.02  
**Product name:** Peters Excel 13+5+20+3CaO+2MgO  
**Synonyms:** Peters Excel 13+2.2+16.6+1.2Mg+2.1Ca+TE

### 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:** • In case of emergency please contact the Dutch National Poison Control, telephone number: 31-(0)30-2748888. (This number is only accessible to the physician treating the patient and only in case of accidental poisoning)

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

### Chemical nature of the preparation

Components	CAS-No	Weight %	EC-No.	Classification
Potassium nitrate, KNO <sub>3</sub>	7757-79-1	40 - 50%	231-818-8	O;R08
Ureaphosphate	4861-19-2	10 - 20%	225-464-3	C;R34
Magnesiumnitrate hexahydrate, Mg(NO <sub>3</sub> ) <sub>2</sub> +6H <sub>2</sub> O	13446-18-9	10 - 20%	233-826-7	O;R08
Calcium nitrate, Ca(NO <sub>3</sub> ) <sub>2</sub>	13477-34-4	20 - 30%	233-332-1	O;R08 Xi;R36
Sodium molybdate, Na <sub>2</sub> MoO <sub>4</sub> +2H <sub>2</sub> O	7631-95-0	< 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

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### 3. HAZARDS IDENTIFICATION

The product is classified and labelled in accordance with Directive 1999/45/EC  
Xi - Irritant

#### **Most important hazards**

Risk of serious damage to eyes.

### 4. FIRST AID MEASURES

- General advice:** In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- Ingestion:** Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting without medical advice. Possible symptoms are nausea and/or vomiting. If a person vomits when lying on his back, place him in the recovery position. Never give anything by mouth to an unconscious person.
- Inhalation:** In the case of inhalation of aerosol/mist consult a physician if necessary. Possible symptoms are coughing and/or dyspnoea. If symptoms persist, call a physician.
- Skin contact:** Rinse with plenty of water. If a person feels unwell or symptoms of skin irritation appear, consult a physician.
- Eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Keep eye wide open while rinsing. Continue rinsing eyes during transport to hospital.
- Protection of first-aiders:** 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:**

In the event of fire, wear self-contained breathing apparatus. The product is not flammable.

### 6. ACCIDENTAL RELEASE MEASURES

#### **Personal precautions:**

Avoid dust formation. Ensure adequate ventilation. Sweep-up to prevent slipping hazard. Avoid contact with eyes.

#### **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:**

Ensure adequate ventilation. Avoid dust formation.

**Safe handling advice:**

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin and eyes.

**Storage:****Technical measures/storage conditions:**

Keep out of reach of children. 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.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering measures to reduce exposure:**

Ensure adequate ventilation.

**Occupational exposure controls****Personal protective equipment****Respiratory protection:**

Effective dust mask.

**Hand protection:**

Rubber gloves.

**Eye/face protection:**

Tightly fitting safety goggles.

**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. Avoid dust formation.

*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> LLV5 mg/m<sup>3</sup> LLV

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### General Information

<b>Physical State:</b>	Solid
<b>Appearance:</b>	Prills, flakes and powder
<b>Color:</b>	White
<b>Odor:</b>	Not significant

### Important Health Safety and Environmental Information

<b>pH:</b>	2 - 3 (1 % solution in water.)
<b>Boiling point/range:</b>	Not applicable
<b>Flammability (solid, gas):</b>	Non-flammable
<b>Solubility:</b>	Soluble

### Other information

<b>Bulk density:</b>	900 - 1100 kg/m <sup>3</sup>
<b>Decomposition temperature:</b>	> 150 °C

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable under recommended storage conditions.
<b>Conditions to avoid:</b>	Avoid dust formation.
<b>Materials to avoid:</b>	No information available
<b>Hazardous decomposition products:</b>	No decomposition if stored normally Thermal decomposition can lead to release of irritating gases and vapours

## 11. TOXICOLOGICAL INFORMATION

### Component information

*Potassium nitrate, KNO<sub>3</sub>*  
**LD50/oral/rat =** 3750mg/kg

*Ureaphosphate*  
**LD50/oral/rat =** 5840 mg/kg

*Sodium molybdate, Na<sub>2</sub>MoO<sub>4</sub>+2H<sub>2</sub>O*  
**LD50/oral/rat =** 4000 mg/kg

**Other information on acute toxicity:** CIT Study No. 23966/23967 TAL  
CIT France,  
BP 563-27005 Evreux France  
(September 2002)

### Product information

**Local effects**

<b>Skin effects:</b>	May cause skin irritation in susceptible persons
<b>Eye effects:</b>	Severe eye irritation. Risk of serious damage to eyes.
<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):** 2 (Scotts classification )**Component information***Calcium nitrate, Ca(NO<sub>3</sub>)<sub>2</sub>***Ecotoxicity effects** LC50/96h/rainbow trout =2400 mg/l*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**

<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:** 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:**

Xi - Irritant.

Xi

**R -phrase(s)**

R41 - Risk of serious damage to eyes.

**S -phrase(s)**

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S39 - Wear eye/face protection.

ICPE (FR): Classified installation : article 1331, 1230, 1200

## 16. OTHER INFORMATION

**Text of R Phrases mentioned in Section 2**

R 8 - Contact with combustible material may cause fire.

R36 - Irritating to eyes.

R41 - Risk of serious damage to eyes.

R36/37/38 - Irritating to eyes, respiratory system and skin.

R48/20/22 - Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**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**