



# Material Safety Data Sheet

According to EC Directive 2001/58/EC

Print date: 26-Jun-2007

Revision Number: 4

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

### Identification of the substance or preparation

MSDS Ref. No.: 2154.02.02  
Product name: Peters Excel 18+10+18+2MgO  
Synonyms: Peters Excel 18+4.4+14.9+1.2Mg

### 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  
• +44 (0)208 762 8322

Emergency telephone number:

## 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
Magnesiumnitrate hexahydrate, Mg(NO <sub>3</sub> ) <sub>2</sub> +6H <sub>2</sub> O	13446-18-9	10 - 25%	233-826-7	O;R08
Ureaphosphate	4861-19-2	10 - 25%	225-464-3	C;R34
Ammoniumnitrate, NH <sub>4</sub> NO <sub>3</sub>	6484-52-2	10 - 25%	229-347-8	O;R08
Potassium nitrate, KNO <sub>3</sub>	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

### Classification

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

O - Oxidizing  
Xi - Irritant

### 3. HAZARDS IDENTIFICATION

**Most important hazards**

Contact with combustible material may cause fire.  
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:**

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:**

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 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:**

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  
 Spain - Valores Limite Ambientales - VLE  
 Sweden - OEL - 8 Hour

0.5 mg/m<sup>3</sup> TWA  
 5 mg/m<sup>3</sup> VLA-ED  
 10 mg/m<sup>3</sup> LLV  
 5 mg/m<sup>3</sup> LLV

Ammoniumnitrate, NH<sub>4</sub>NO<sub>3</sub>  
 Czech Republic OEL

Listed

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### General Information

**Physical State:** Solid  
**Appearance:** Prills, flakes and powder  
**Color:** White  
**Odor:** Not significant

### Important Health Safety and Environmental Information

**pH:** 2 - 3 (1 % solution in water.)  
**Flammability (solid, gas):** Non-flammable  
**Solubility:** Soluble

### Other information

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

## 10. STABILITY AND REACTIVITY

**Stability:** Stable under recommended storage conditions.  
**Conditions to avoid:** Avoid dust formation. Burning produces obnoxious and toxic fumes.  
**Materials to avoid:** No information available  
**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<sub>2</sub>MoO<sub>4</sub>·2H<sub>2</sub>O*  
**LD50/oral/rat =** 4000 mg/kg

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

*Ammoniumnitrate, NH<sub>4</sub>NO<sub>3</sub>*

**LD50/oral/rat =** 410 mg/kg

*Potassium nitrate, KNO<sub>3</sub>*

**LD50/oral/rat =** 3750mg/kg

### Product information

#### Local effects

- Skin effects:** May cause skin irritation in susceptible persons. (Notox Study 424586, Primary skin irritation/corrosion study on rabbits, 22-02-2005) .
- Eye effects:** Severe eye irritation. Risk of serious damage to eyes. (CIT Study No. 23966/23967 TAL. CIT France, BP 563-27005 Evreux France, 01-09-2002).
- 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):** 2 (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

*Ammoniumnitrate, 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

- 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.  
Xi - Irritant.

**R -phrase(s)**

R 8 - Contact with combustible material may cause fire.  
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

**16. OTHER INFORMATION****Text of R Phrases mentioned in Section 2**

## 16. OTHER INFORMATION

R 8 - Contact with combustible material may cause fire.  
R34 - Causes burns.  
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**