



Material Safety Data Sheet

According to EC Regulation 1907/2006

Print date: 03-Mar-2010***

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.: 2150.02.02
 Product name: Peters® Excel® 13+5+20+7CaO+2MgO
 Synonyms: Peters Excel 13+2.2+16.6+1.2Mg+5Ca

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 (24h)

Email: INFO-MSDS@Scotts.com

2. HAZARDS IDENTIFICATION

Classification

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

O - Oxidizing

Xi - Irritant

Most important hazards

Contact with combustible material may cause fire.

Risk of serious damage to eyes.

3. 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

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Components	CAS-No	Weight %	EC-No.	Classification
Copper-EDTA	14025-15-1	< 1%	237-864-5	Xn;R22
Boric acid, H3BO3	10043-35-3	< 1%	233-139-2	Repr.Cat.2;R60-61 ***
Manganese-EDTA	15375-84-5	< 1%	239-407-5	NE
Ureaphosphate	4861-19-2	10 - 25%	225-464-3	C;R34
Magnesium nitrate hexahydrate, Mg(NO3)2+6H2O	13446-18-9	10 - 25%	233-826-7	O;R08
Calcium nitrate, Ca(NO3)2	13477-34-4	> 25%	233-332-1	O;R08 Xi;R36
Potassium nitrate, KNO3	7757-79-1	> 25%	231-818-8	O;R08

NE = Non-Established

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

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, Na₂MoO₄+2H₂O

Belgium - 8 Hr VLE	5 mg/m ³ TWA
Czech Republic OEL	5 mg/m³ 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
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

Copper-EDTA

Finland - Occupational Exposure Limits - 8 hour	1 mg/m ³ TWA
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Boric acid, H₃BO₃

Belgium - 8 Hr VLE	2 mg/m ³ TWA
Germany TRGS900:	0.5 mg/m³ TWA***
Portugal - TWAs	2 mg/m ³ TWA

Manganese-EDTA

Belgium - 8 Hr VLE	0.2 mg/m ³ TWA
Czech Republic OEL	1 mg/m³ TWA***

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

Decomposition temperature:	> 150°C
Solubility:	Soluble
Flammability (solid, gas):	Non-flammable

Other information

pH:	2 - 3 (1 % solution in water.)
Bulk density:	900 - 1100 kg/m ³

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, Na₂MoO₄+2H₂O

LD50/oral/rat = 4000 mg/kg

Copper-EDTA

LD50/oral/rat = > 1000 mg/kg

Boric acid, H₃BO₃

LD50/oral/rat = > 3500 mg/kg

Ureaphosphate

LD50/oral/rat = 5840 mg/kg

Potassium nitrate, KNO₃

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, 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

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: 1479
Proper shipping name: Oxidizing solid, N.O.S.
Hazard Class: 5.1
Packing group: PG III
Description: Potassiumnitrate, Magnesiumnitrate

IMO / IMDG

UN-No: 1479
Proper shipping name: Oxidizing solid, N.O.S.
Hazard Class: 5.1
Packing group: PG III
Description: Potassiumnitrate, Magnesiumnitrate
EmS: F-A / S-Q



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 1230

16. OTHER INFORMATION

Text of R Phrases mentioned in Section 3

R 8 - Contact with combustible material may cause fire.
R22 - Harmful if swallowed.
R34 - Causes burns.
R36 - Irritating to eyes.
R60 - May impair fertility.
R61 - May cause harm to the unborn child. ***

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