



Material Safety Data Sheet

According to EC Directive 2001/58/EC

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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.: 3948.02.02
Product name: Peters Excel 15+5+15
Synonyms: Peters Excel 15+2.2+12.4

Use of the Substance/Preparation

Recommended use: Water soluble fertilizer.

Company/Undertaking Identification

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2. 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
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
Ureaphosphate	4861-19-2	10 - 25%	225-464-3	C;R34
Ammoniumnitrate, NH ₄ NO ₃	6484-52-2	5 - 10%	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

Classification

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

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3. HAZARDS IDENTIFICATION

Most important hazards

None

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

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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.

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

Austria - MAKs

5 mg/m³ MAK

Belgium - 8 Hr VLE

5 mg/m³ TWA

Czech Republic OEL

Listed

Finland - Occupational Exposure Limits - 8 hour

6 mg/m³

France - Valeurs Limites d'exposition (VLE)

5 mg/m³

France INRS (VME)

5 mg/m³ VME

Netherlands - OEL - MACs:

5 mg/m³ MAC

Norway - 8 h:

5 mg/m³ TWA

Portugal - TWAs

0.5 mg/m³ TWA

Spain - Valores Limite Ambientales - VLE

5 mg/m³ VLA-ED

Sweden - OEL - 8 Hour

10 mg/m³ LLV5 mg/m³ LLV*Ammoniumnitrate, NH₄NO₃*

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 ³
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, Na₂MoO₄·2H₂O

LD₅₀/oral/rat = 4000 mg/kg

Ureaphosphate

LD₅₀/oral/rat = 5840 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. (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

Ammoniumnitrate, NH₄NO₃

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: 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 1331, 1230, 1200

16. OTHER INFORMATION

Text of R Phrases mentioned in Section 2

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