



# Safety Data Sheet

Issue Date: 13-Nov-2013

Revision Date: 19-Aug-2014

Version: 4

## Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

**Product Name:** Peters Excel 14-10-26+2MgO+TE  
**Product Code:** 21510215EA

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Recommended Use:** Fertilizer  
 Restricted to professional users  
**Uses Advised Against:** Consumer use.

### 1.3. Details of the supplier of the safety data sheet

#### Manufacturer

Everris International BV  
 Nijverheidsweg 1-5; 6422 PD Heerlen (NL)  
 Tel: +31 (0) 45-5609100; Fax: +31 (0) 45-5609190

#### For further information, please contact

INFO-MSDS@EVERRIS.COM

### 1.4. Emergency telephone number

IN CASE OF AN EMERGENCY CALL: +44 1235 239 670 (24h)

## Section 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

Mixture

*Regulation (EC) No 1272/2008*

<b>Skin Corrosion or Irritation</b>	Category 2 - (H315)
<b>Serious Eye Damage or Eye Irritation</b>	Category 2 - (H319)
<b>Oxidizing solids</b>	Category 3 - (H272)

*Classification according 67/548/EC and 88/379/EC or 1999/45/EC*

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

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**R-code(s)**

R08;R41

Full text of R-phrases: see section 16

**2.2. Label elements****Product Identifier:****Signal Word:**

Warning

**Hazard Statements:**

H319 - Causes serious eye irritation

H315 - Causes skin irritation

H272 - May intensify fire; oxidizer

Contains Ureaphosphate

**Precautionary Statements - EU (§28, 1272/2008)**

P210 - Keep away from heat/sparks/open flames/hot surfaces. — No smoking

P221 - Take any precaution to avoid mixing with combustibles

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P337 + P313 - If eye irritation persists: Get medical advice/attention

**Section 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.1 Substances**

Ingredients	EC-No.	CAS-No	Weight %	Classification according to 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH registration number
Ureaphosphate	225-464-3	4861-19-2	10 - 25%	C;R34	Skin Corr. 1B (H314)	01-2119489460-34
Magnesium nitrate hexahydrate; Mg(NO <sub>3</sub> ) <sub>2</sub> +6H <sub>2</sub> O	233-826-7	13446-18-9	10 - 25%	NE	Eye Irrit. 2 (H319)	01-2119491164-38
Ammonium Nitrate; NH <sub>4</sub> NO <sub>3</sub>	229-347-8	6484-52-2	5 - 10%	O;R8 Xi;R36	Eye Irrit. 2 (H319) Ox. Sol. 3 (H272)	01-2119490981-27
Iron-DTPA; Fe-DTPA	235-627-0	12389-75-2	1 - 5%	NE	Not classified	01-2119980786-18
Manganese-EDTA, Mn-EDTA	239-407-5	15375-84-5	0.1 - 1%	NE	Not classified	01-2119493600-40
Boric Acid; H <sub>3</sub> BO <sub>3</sub>	233-139-2	10043-35-3	0.1 - 1%	Repr.Cat.2;R60-6 1	Repr. 1B (H360FD)	01-2119486683-25
Copper-EDTA; Cu-EDTA	237-864-5	14025-15-1	0.1 - 1%	Xn;R22	Acute Tox. 4 (H302)	01-2119963944-23

Sodium molybdate; Na <sub>2</sub> MoO <sub>4</sub> +2H <sub>2</sub> O	231-551-7	7631-95-0	< 0.1%	NE	Not classified	01-2119489495-21
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**Full text of R-phrases: see section 16**

**Full text of H- and EUH-phrases: see section 16**

## Section 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

<b>General Advice:</b>	First aid measures should be executed by trained personnel only.
<b>Inhalation:</b>	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.
<b>Skin Contact:</b>	Rinse with plenty of water. If a person feels unwell or symptoms of skin irritation appear, consult a physician.
<b>Eye Contact:</b>	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.
<b>Ingestion:</b>	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.
<b>Protection of First-Aiders:</b>	Use personal protective equipment.

### 4.2. Most important symptoms and effects, both acute and delayed

**Symptoms:** None under normal processing

### 4.3. Indication of any immediate medical attention and special treatment needed

**Notes to Physician:** None under normal processing.

## Section 5: FIRE FIGHTING MEASURES

### 5.1. Extinguishing media

**Suitable extinguishing media:**

Flooding quantities of water.

**Unsuitable extinguishing media:**

High volume water jet.

### 5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

### 5.3. Advice for firefighters

Coordinate fire extinguishing measures to fire in surrounding area.

## Section 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

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

**For Emergency Responders:** Use personal protection recommended in Section 8.

**6.2. Environmental precautions**

Prevent product from entering drains. Do not contaminate surface water.

**6.3. Methods and material for containment and cleaning up**

**Methods for Containment:** Prevent further leakage or spillage if safe to do so.

**Methods for Cleanup:** Shovel or sweep up. Do not create a powder cloud by using a brush or compressed air.

**6.4. Reference to other sections**

§ 8, 12, 13.

**Section 7: HANDLING AND STORAGE****7.1. Precautions for safe handling**

General hygiene considerations:

Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. When using, do not eat, drink or smoke.

**7.2. Conditions for safe storage, including any incompatibilities**

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.

LGK (Germany)

Packaging Materials:

5.1B  
Bags or Bulk.

**7.3. Specific end use(s)**

Specific use(s)

Fertilizer; Read and follow label instructions; www.everris.com

**Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1. Control parameters**

<i>Ammonium Nitrate; NH4NO3</i>	
Czech Republic OEL	10.0 mg/m <sup>3</sup> TWA
<i>Iron-DTPA; Fe-DTPA</i>	
Spain Occupational Exposure Limits Data - Time Weighted Average (TWA):	TWA: 1 mg/m <sup>3</sup>
Portugal	TWA: 1 mg/m <sup>3</sup>
Finland	TWA: 1 mg/m <sup>3</sup>
Denmark	TWA: 1 mg/m <sup>3</sup>
Switzerland	TWA: 1 mg/m <sup>3</sup>
<i>Manganese-EDTA, Mn-EDTA</i>	
Czech Republic OEL	1 mg/m <sup>3</sup> TWA
Ireland	TWA: 0.2 mg/m <sup>3</sup>
<i>Boric Acid; H3BO3</i>	
Latvia - Occupational Exposure Limits - TWAs	10 mg/m <sup>3</sup> TWA
Bulgaria - Occupational Exposure Limits - TWAs	5.0 mg/m <sup>3</sup> TWA (as B, listed under Boron and its inorganic compounds)
Spain Occupational Exposure Limits Data - Time Weighted Average (TWA):	STEL: 6 mg/m <sup>3</sup> TWA: 2 mg/m <sup>3</sup>
Portugal	STEL: 6 mg/m <sup>3</sup> TWA: 2 mg/m <sup>3</sup>
Portugal - TWAs	2 mg/m <sup>3</sup> TWA
Switzerland	STEL: 10 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup>
<i>Copper-EDTA; Cu-EDTA</i>	
Finland	TWA: 1 mg/m <sup>3</sup>

Austria	STEL 4 mg/m <sup>3</sup> STEL 0.4 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup> TWA: 0.1 mg/m <sup>3</sup>
<i>Sodium molybdate; Na<sub>2</sub>MoO<sub>4</sub>+2H<sub>2</sub>O</i>	
UK oes/mel:	TWA: 5 mg/m <sup>3</sup>
France - Occupational Exposure Limits - 8 Hour VMEs	TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>
Czech Republic OEL	5 mg/m <sup>3</sup> TWA
Spain Occupational Exposure Limits Data - Time Weighted Average (TWA):	TWA: 0.5 mg/m <sup>3</sup>
Portugal	TWA: 0.5 mg/m <sup>3</sup>
Finland - Occupational Exposure Limits - 8 hour	6 mg/m <sup>3</sup>
Finland	TWA: 0.5 mg/m <sup>3</sup>
Denmark	TWA: 5 mg/m <sup>3</sup>
Austria	STEL 10 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>
Switzerland	TWA: 5 mg/m <sup>3</sup>
Poland	STEL: 10 mg/m <sup>3</sup> TWA: 4 mg/m <sup>3</sup>
Norway	TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>
Ireland	TWA: 10 mg/m <sup>3</sup> TWA: 0.5 mg/m <sup>3</sup>
France - Valeurs Limites d'exposition (VLE)	5 mg/m <sup>3</sup>

**Derived No Effect Level (DNEL)**

No data available

**Predicted No Effect Concentration (PNEC)**

No data available.

**8.2. Exposure controls**

**Engineering Measures to Reduce Exposure:** Ensure adequate ventilation, especially in confined areas.

**Personal protective equipment**

Eye/Face Protection: Tightly fitting safety goggles Wear face-shield and protective suit for abnormal processing problems.

Hand protection: Nitrile rubber (0.26 mm). Break through time. > 8 h.

Respiratory Protection: Effective dust mask

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.

**Environmental exposure controls** Do not allow into any sewer, on the ground or into any body of water.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

**9.1. Information on basic physical and chemical properties**

<b>Physical State:</b>	Solid
<b>Appearance:</b>	Prills, flakes and powder
<b>Color:</b>	Off-white.
<b>Odor:</b>	Not significant
<b>pH:</b>	2.5 (@ 200 g/l)
<b>Melting Point/Freezing Point:</b>	no data available
<b>Boiling Point/Range:</b>	Solid, not applicable
<b>Flash Point:</b>	Solid, not applicable
<b>Evaporation Rate:</b>	Solid, not applicable
<b>Flammability (solid, gas):</b>	Non-flammable
<b>Vapor Pressure:</b>	Solid, not applicable
<b>Vapor Density:</b>	Solid, not applicable
<b>Specific Gravity:</b>	no data available

<b>Water Solubility:</b>	Soluble in water
<b>Solubility(ies)</b>	no data available
<b>Partition Coefficient:</b>	Solid, not applicable
<b>Autoignition Temperature:</b>	not applicable
<b>Decomposition Temperature:</b>	no data available
<b>Explosive Properties:</b>	Doesn't present explosion hazard. Based on data of ingredients.
<b>Oxidizing Properties:</b>	May intensify fire; oxidizer.

**9.2. Other information**

**Bulk density:** 900 - 1100 kg/m<sup>3</sup>

**Section 10: STABILITY AND REACTIVITY****10.1. Reactivity**

Not reactive.

**10.2. Chemical stability**

Stable under recommended storage conditions.

**10.3. Possibility of hazardous reactions****Hazardous Decomposition Products:**

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

**Possibility of Hazardous Reactions:**

None under normal processing.

**10.4. Conditions to avoid**

For quality reasons: Keep out of reach of direct sunlight, store under dry conditions, partly used bags should be closed well.

**10.5. Incompatible materials**

Strong oxidizing agents. Acids and bases. Strong reducing agents. Flammable materials. Keep away from catalysts like derivatives of hexavalent chromium and metal halides. Keep away from flammable products (fuels) like charcoal, wood, flour, soot etc.

**10.6. Hazardous decomposition products**

None under normal processing.

**Section 11: TOXICOLOGICAL INFORMATION****11.1. Information on toxicological effects****Acute Toxicity****Product Information:**

<b>Inhalation:</b>	May cause irritation of respiratory tract.
<b>Eye Contact:</b>	Causes serious eye irritation.
<b>Skin Contact:</b>	Causes skin irritation.
<b>Ingestion:</b>	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
<b>Unknown Acute Toxicity:</b>	0% of the mixture consists of ingredient(s) of unknown toxicity.

**Component Information:**

Ingredients	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ureaphosphate	2600 mg/kg		
Ammonium Nitrate; NH <sub>4</sub> NO <sub>3</sub>	= 2217 mg/kg ( Rat )		> 88.8 mg/L ( Rat ) 4 h
Boric Acid; H <sub>3</sub> BO <sub>3</sub>	= 2660 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	> 0.16 mg/L ( Rat ) 4 h
Sodium molybdate; Na <sub>2</sub> MoO <sub>4</sub> +2H <sub>2</sub> O	= 4233 mg/kg ( Rat )	> 2000 mg/kg ( Rat )	> 2080 mg/m <sup>3</sup> ( Rat ) 4 h

**Skin Corrosion or Irritation**

See also section 3.

**Serious Eye Damage or Eye Irritation**

See also section 3.

**Sensitization**

See also section 3.

**Mutagenic effects**

See also section 3.

**Carcinogenicity**

The table below indicates whether each agency has listed any ingredient as a carcinogen.

**Reproductive Toxicity**

Ingredients	EU - GHS - SV - CLP (1272/2008) - Reproductive Toxicity
Boric Acid; H3BO3	Reproductive Toxicity - Repr. 1B: H360FD May damage fertility. May damage the unborn child. (C >= 5.5 %)

**Teratogenicity****STOT - Single Exposure****STOT - Repeated Exposure****Aspiration Hazard**

No data available.

No known effects under normal use conditions.

None under normal use conditions.

No data available.

## Section 12: ECOLOGICAL INFORMATION

**12.1. Toxicity**

Do not allow product to enter the environment uncontrolled.

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

Ingredients	Algae/aquatic plants	Fish	Crustacea
Boric Acid; H3BO3			115 - 153: 48 h Daphnia magna mg/L EC50

**12.2. Persistence and degradability**

No information available.

**12.3. Bioaccumulative potential**

Ingredients	LOGPOW
Ammonium Nitrate; NH4NO3	-3.1
Boric Acid; H3BO3	-0.757

**12.4. Mobility in soil**

No information available.

**12.5. Results of PBT and vPvB assessment**

No information available.

**12.6. Other adverse effects**

not applicable

## Section 13: DISPOSAL CONSIDERATIONS

**13.1. Waste treatment methods****Disposal of Wastes:**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated Packaging:**

Do not re-use empty containers. Dispose of as unused product.

**Other Information:**

Use up product completely. Packaging material is industrial waste.

## Section 14: TRANSPORT INFORMATION

**IMO / IMDG****14.1****UN-No:**

1479

**14.2****Proper shipping name:**

Oxidizing solid, N.O.S. (Potassium nitrate)

**14.3****Hazard Class:**

5.1

**14.4****Packing group:**

PG III

<b>14.5</b>	
<b>Marine Pollutant:</b>	Not regulated
<b>14.6</b>	
<b>EmS:</b>	F-A / S-Q
<b>Special Provisions</b>	223, 274, 900
<b>14.7</b>	
<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not regulated

**ADR/RID**

<b>14.1</b>	
<b>UN-No:</b>	1479
<b>14.2</b>	
<b>Proper shipping name:</b>	Oxidizing solid, N.O.S. (Potassium nitrate)
<b>14.3</b>	
<b>Hazard Class:</b>	5.1
<b>14.4</b>	
<b>Packing group:</b>	PG III
<b>14.5</b>	
<b>Environmental Hazard</b>	Not regulated
<b>14.6</b>	
<b>Special Provisions</b>	274
<b>Tunnel restriction code</b>	E

**IATA**

<b>14.1</b>	
<b>UN-No:</b>	1479
<b>14.2</b>	
<b>Proper shipping name:</b>	Oxidizing solid, N.O.S. (Potassium nitrate)
<b>14.3</b>	
<b>Hazard Class:</b>	5.1
<b>14.4</b>	
<b>Packing group:</b>	PG III
<b>14.5</b>	
<b>Environmental Hazard</b>	Not regulated
<b>14.6</b>	
<b>Special Provisions</b>	A3

**Section 15: REGULATORY INFORMATION****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Component	EU - REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances
Ammonium Nitrate; NH <sub>4</sub> NO <sub>3</sub> 6484-52-2 ( 5 - 10% )	Use restricted. See item 58. (Conditions of restrictions 27 June 2010)

**National regulations**

France

ICPE (FR):

Classified installation: article 1331 (Type III), 1230



Germany**Gefahrstoffverordnung (Germany) TRGS 511****LGK (Germany)****Water Endangering Class (WGK):**

C III

5.1B

2 (Everris classification )

Component	German WGK Section
Ureaphosphate 4861-19-2 ( 10 - 25% )	class 1
Ammonium Nitrate; NH <sub>4</sub> NO <sub>3</sub> 6484-52-2 ( 5 - 10% )	class 1
Boric Acid; H <sub>3</sub> BO <sub>3</sub> 10043-35-3 ( 0.1 - 1% )	class 1
Sodium molybdate; Na <sub>2</sub> MoO <sub>4</sub> ·2H <sub>2</sub> O 7631-95-0 ( < 0.1% )	class 1

European Union

Take note of Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values

**15.2. Chemical safety assessment**

Not required. Substance(s) usage is covered according to Reach regulation 1907/2006.

**Section 16: OTHER INFORMATION****Text of R Phrases mentioned in Section 3**

R8 - 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

**Full text of H-Statements referred to under sections 2 and 3**

H360FD - May damage fertility. May damage the unborn child

H319 - Causes serious eye irritation

H302 - Harmful if swallowed

H314 - Causes severe skin burns and eye damage

H315 - Causes skin irritation

H316 - Causes mild skin irritation

H272 - May intensify fire; oxidizer

**Key or legend to abbreviations and acronyms used in the safety data sheet**

RID: Regulations Concerning the International Transport of Dangerous Goods by Rail

ICAO: International Civil Aviation Organization

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labeling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PNEC: Predicted No Effect Concentration

DNEL: Derived No-Effect Level

Reach: Registration, Evaluation, authorization of Chemicals

CLP: EU-GHS; Classification, Labelling and Packaging

OEL: Occupational Exposure Limit

TWA: Time Weighted Average

ATE: Acute Toxicity Estimate

EUH statement: CLP (EU) specific hazard statement.

**Classification procedure:**

- Calculation method

- Expert judgment and weight of evidence determination

**Key literature references and sources for data**

According to EC Regulation 1907/2006 (Reach), Regulation EU No. 453/2010  
Regulation (EC) No 1272/2008

**Prepared by:**

Regulatory Affairs Department (INFO-MSDS@EVERRIS.COM)

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**Reason for revision:**

\*\*\* Indicates changes since the last revision. This version replaces all previous versions.

**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

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**End of Safety Data Sheet**