

# Safety Data Sheet

Issue Date: 10-Mar-2015

Revision Date: 11-Jul-2016

Version: 1

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

### 1.1. Product identifier

**Product Code** 21520215AU  
**Product Name:** Peters Excel CalMag Grower

**Proper shipping name:** Oxidizing solid, N.O.S. (Potassium nitrate, Ammonium nitrate)

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

**Recommended Use:** Fertilizer  
**Uses Advised Against:** Consumer use [SU 21].

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

#### Manufacturer

Everris Australia Pty Ltd, 211/33 Lexington Drive, Bella Vista, NSW 2153, Australia. Tel: +61(2) 8801 3300

#### For further information, please contact

INFO-MSDS@EVERRIS.COM

### 1.4. Emergency telephone number

Australia: (02) 8014 4558  
 New Zealand: (09) 9929 1483

## Section 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

Mixture

*Regulation (EC) No 1272/2008*

<b>Acute toxicity - Oral- Category 5 (H303)</b>	Category 4 - (H302)
<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)

### 2.2. Label elements

#### Product Identifier:



#### Signal Word:

Warning

#### Hazard Statements:

H319 - Causes serious eye irritation  
 H315 - Causes skin irritation  
 H302 - Harmful if swallowed  
 H272 - May intensify fire; oxidizer  
 Contains Ureaphosphate, Magnesium nitrate hexahydrate;  
 Mg(NO<sub>3</sub>)<sub>2</sub>·6H<sub>2</sub>O, Nitric acid ammonium calcium salt, Ammonium Nitrate; NH<sub>4</sub>NO<sub>3</sub>

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

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

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P221 - Take any precaution to avoid mixing with combustibles

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 Regulation (EC) No. 1272/2008 [CLP]	REACH registration number
Potassium Nitrate; KNO <sub>3</sub>	231-818-8	7757-79-1	30 - 60%	Ox. Sol. 3 (H272)	01-2119488224-35
Nitric acid ammonium calcium salt	239-289-5	15245-12-2	10 - 30%	Eye Dam. 1 (H318) Acute Tox. 4 (H302)	01-2119493947-16
Magnesium nitrate hexahydrate; Mg(NO <sub>3</sub> ) <sub>2</sub> ·6H <sub>2</sub> O	233-826-7	13446-18-9	10 - 30%	Eye Irrit. 2 (H319)	01-2119491164-38
Ureaphosphate	225-464-3	4861-19-2	10 - 30%	Skin Corr. 1B (H314)	01-2119489460-34
Ammonium Nitrate; NH <sub>4</sub> NO <sub>3</sub>	229-347-8	6484-52-2	5 - 10%	Eye Irrit. 2 (H319) Ox. Sol. 3 (H272)	01-2119490981-27
Boric Acid; H <sub>3</sub> BO <sub>3</sub>	233-139-2	10043-35-3	0.1 - 1%	Repr. 1B (H360FD)	01-2119486683-25
Copper-EDTA; Cu-EDTA	237-864-5	14025-15-1	0.1 - 1%	Eye Irrit. 2 (H319) Acute Tox. 4 (H302)	01-2119963944-23

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>	Move to fresh air. If not breathing, give artificial respiration. If symptoms persist, call a physician.
<b>Skin Contact:</b>	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.
<b>Eye Contact:</b>	Rinse thoroughly with plenty of water, also under the eyelids. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. If eye irritation persists, consult a specialist.
<b>Ingestion:</b>	Call a physician or Poison Control Centre immediately.
<b>Protection of First-Aiders:</b>	Low hazard for usual industrial or commercial handling.

#### 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. The product itself does not burn. May intensify fire; oxidizer.

**5.3. Advice for firefighters**

Coordinate fire extinguishing measures to fire in surrounding area.

**Hazchem code:**

1Y

## Section 6: ACCIDENTAL RELEASE MEASURES

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

**Personal Precautions:** Ensure adequate ventilation. Wear personal protective equipment. Evacuate personnel to safe areas.

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

**6.2. Environmental precautions**

Do not allow product to enter the environment uncontrolled.

**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:** Take up mechanically and collect in suitable container for disposal. If material is uncontaminated, collect and reuse as recommended for product.

**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 container tightly closed in a dry and well-ventilated place. For quality reasons: Keep out of reach of direct sunlight, store under dry conditions, partly used bags should be closed well.

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](http://www.everris.com)

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1. Control parameters**

<i>Potassium Nitrate; KNO<sub>3</sub></i>	
Australia TWA	> 10 mg/m <sup>3</sup>
Bulgaria - Occupational Exposure Limits - TWAs	5.0 mg/m <sup>3</sup> TWA
Latvia - Occupational Exposure Limits - TWAs	5 mg/m <sup>3</sup> TWA
<i>Ammonium Nitrate; NH<sub>4</sub>NO<sub>3</sub></i>	
Australia TWA	N.A.
Czech Republic OEL	10.0 mg/m <sup>3</sup> TWA
<i>Boric Acid; H<sub>3</sub>BO<sub>3</sub></i>	

Australia TWA	12 mg/m <sup>3</sup>
Belgium - 8 Hr TWA	2 mg/m <sup>3</sup> TWA borate
Bulgaria - Occupational Exposure Limits - TWAs	5.0 mg/m <sup>3</sup> TWA (as B, listed under Boron and its inorganic compounds)
German mak	TWA: 10 mg/m <sup>3</sup> Ceiling / Peak: 10 mg/m <sup>3</sup> TWA: 0.5 mg/m <sup>3</sup>
Latvia - Occupational Exposure Limits - TWAs	10 mg/m <sup>3</sup> TWA
Portugal	STEL: 6 mg/m <sup>3</sup> TWA: 2 mg/m <sup>3</sup>
Spain OEL - Time Weighted Average (TWA):	STEL: 6 mg/m <sup>3</sup> TWA: 2 mg/m <sup>3</sup>
Switzerland	STEL: 10 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup>
<i>Copper-EDTA; Cu-EDTA</i>	
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>
Australia TWA	N.A.
Finland	TWA: 1 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: Not required Wear face-shield and protective suit for abnormal processing problems.  
 Hand protection: Nitrile rubber (0.26 mm). Break through time. > 8 h.  
 Respiratory Protection: In case of insufficient ventilation wear suitable respiratory equipment.  
 Skin and Body Protection: Lightweight 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>Odor:</b>	Not significant
<b>Bulk density:</b>	no data available
<b>pH:</b>	no data available
<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.

**9.2. Other information**

Not applicable

## 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

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.

The following values are calculated based on chapter 3.1 of the GHS document:

ATEmix (oral): 1,841.00 mg/kg

<b>Skin Corrosion or Irritation</b>	See also section 3.
<b>Serious Eye Damage or Eye Irritation</b>	See also section 3.
<b>Sensitization</b>	See also section 3.
<b>Mutagenic effects</b>	See also section 3.
<b>Carcinogenicity</b>	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; H <sub>3</sub> BO <sub>3</sub>	Reproductive Toxicity - Repr. 1B: H360FD May damage fertility. May damage the unborn child. (C >= 5.5 %)

<b>Teratogenicity</b>	No known effects under normal use conditions.
<b>STOT - Single Exposure-Category 3 (H335)</b>	No known effects under normal use conditions.
<b>STOT - Repeated Exposure</b>	None under normal use conditions.
<b>Aspiration Hazard</b>	None under normal use.

## 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
Nitric acid ammonium calcium salt		447: 48 h Carassius auratus	

		mg/L LC50	
Ammonium Nitrate; NH <sub>4</sub> NO <sub>3</sub>		65 - 85: 48 h Cyprinus carpio mg/L LC50 semi-static	
Boric Acid; H <sub>3</sub> BO <sub>3</sub>		1020: 72 h Carassius auratus mg/L LC50 flow-through	115 - 153: 48 h Daphnia magna mg/L EC50

**12.2. Persistence and degradability**

No data available.

**12.3. Bioaccumulative potential**

Component	LOGPOW
Nitric acid ammonium calcium salt 15245-12-2 ( 10 - 30% )	0
Ammonium Nitrate; NH <sub>4</sub> NO <sub>3</sub> 6484-52-2 ( 5 - 10% )	-3.1
Boric Acid; H <sub>3</sub> BO <sub>3</sub> 10043-35-3 ( 0.1 - 1% )	-0.757

**12.4. Mobility in soil**

No data available.

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

No data available.

**12.6. Other adverse effects**

No data available

## 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

Hazchem code: 1Y

**IMO / IMDG****14.1****UN-No:** 1479**14.2****Proper shipping name:** Oxidizing solid, N.O.S. (Potassium nitrate, Ammonium nitrate)**14.3****Hazard Class:** 5.1**14.4****Packing group:** III**14.5****Marine Pollutant:** Not regulated**14.6****EmS:** F-A / S-Q  
**Special Provisions** 223, 274, 900**14.7****Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not regulated**ADR/RID****14.1****UN-No:** 1479**14.2****Proper shipping name:** Oxidizing solid, N.O.S. (Potassium nitrate, Ammonium nitrate)

<b>14.3</b>	
<b>Hazard Class:</b>	5.1
<b>14.4</b>	
<b>Packing group:</b>	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
<b>Limited Quantity</b>	5 kg

**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, Ammonium nitrate)
<b>14.3</b>	
<b>Hazard Class:</b>	5.1
<b>14.4</b>	
<b>Packing group:</b>	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****REACH:**

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)
Boric Acid; H <sub>3</sub> BO <sub>3</sub> 10043-35-3 ( 0.1 - 1% )	Use restricted. See item 30.

No data available

**National regulations**Belgium

Component	Belgium - Major Accidents - Qualifying Quantities for Safety Reporting	Belgium - Major Accidents - Qualifying Quantities for Accident Prevention
Ammonium Nitrate; NH <sub>4</sub> NO <sub>3</sub> 6484-52-2 ( 5 - 10% )	2500 tonne (Note 3, applies to Ammonium nitrate in which the Nitrogen content due to Ammonium nitrate is >28% by weight containing ≤0.2 % combustible material, >24.5% and <28% by weight containing ≤0.4% combustible material and to aqueous Ammonium nitrate solutions in which the concentration of Ammonium nitrate is >80% by weight)	350 tonne (Note 3, applies to Ammonium nitrate in which the Nitrogen content due to Ammonium nitrate is >28% by weight containing ≤0.2 % combustible material, >24.5% and <28% by weight containing ≤0.4% combustible material and to aqueous Ammonium nitrate solutions in which the concentration of Ammonium nitrate is >80% by weight)

Denmark

Danish Sikkerhedsgruppe

Not regulated

France

ICPE

Classified installation: article 1331 (Type III), 1230

Germany

LGK (Germany)

Water Endangering Class (WGK):

5.1B

1 (Everris classification)

Component	German WGK Section
Potassium Nitrate; KNO <sub>3</sub> 7757-79-1 ( 30 - 60% )	class 1
Ureaphosphate 4861-19-2 ( 10 - 30% )	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
Copper-EDTA; Cu-EDTA 14025-15-1 ( 0.1 - 1% )	class 2

**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****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

H318 - Causes serious eye damage

H314 - Causes severe skin burns and eye damage

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. 2015/830. Regulation (EC) No 1272/2008.

**Prepared by:**

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



**Issue Date:** 10-Mar-2015

**Revision Date:** 11-Jul-2016

**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**

This information contained herein is, to the best of Everris' knowledge and belief, accurate and reliable as of the date of preparation of this document. However, no warranty or guarantee, express or implied, is made as to the accuracy or reliability, and Everris shall not be liable for any loss or damage arising out of the use thereof. No authorization is given or implied to use any patented invention without a license. In addition, Everris shall not be liable for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices or from any hazards inherent in the nature of the product.

**End of Safety Data Sheet**