

# Safety Data Sheet

This safety data sheet was created pursuant to the requirements of:  
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Last Revision Date 28-Jun-2021

Version: 1

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product Name	Peters Excel CalMag Grower 15-5-15+7CaO+3MgO+TE
Product Code	2152-215HA
Unique Formula Identifier (UFI)	8SX5-S0S9-T00Q-65NT
REACH registration number	Not applicable
Pure substance/mixture	Mixture

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

Recommended Use	Fertilizer (PC12). Restricted to professional users.
Uses Advised Against	Consumer use (SU21)

Reason why uses advised against Use advised against in Chemical Safety Assessment per REACH Annex I point 7 2.3

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

Everris International B.V. 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

Non-Emergency Telephone Number +31 (0) 418655700

### 1.4. Emergency telephone number

IN CASE OF AN EMERGENCY CALL: +44 1235 239 670 (24/7)

Europe	112
Austria	+43 1 406 43 43
Belgium	070 245 245
Denmark	+45 8212 1212
Finland	0800 147 111
France	+ 33 (0)1 45 42 59
Ireland	01 809 2566
Netherlands	088 755 8000 (24/7)
Norway	+45 735 80500
Poland	+48 42 2538 400
Portugal	+351 800 250 250
Spain	+34 91 562 04 20
Sweden	112
Switzerland	Tox Info SW 145 (24h)
United Kingdom	111

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity - Oral	Category 4 - (H302)
Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 1 - (H318)
Oxidizing solids	Category 3 - (H272)

### 2.2. Label elements



Contains Nitric acid ammonium calcium salt;  $\text{CaH}_4\text{N}_2\text{O}_3$ , Urea phosphate;  $\text{CH}_7\text{N}_2\text{O}_5\text{P}$

**Signal word**

Danger

**Hazard statements**

- H302 - Harmful if swallowed
- H315 - Causes skin irritation
- H318 - Causes serious eye damage
- H272 - May intensify fire; oxidizer

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

- P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
- P220 - Keep away from clothing and other combustible materials
- P280 - Wear protective gloves/protective clothing/eye protection/face protection
- P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P310 - Immediately call a POISON CENTER or doctor

**Additional information**

This product requires tactile warnings if supplied to the general public.

**2.3. Other hazards**

No information available.

**SECTION 3: Composition/information on ingredients**

**3.1 Substances**

Not applicable

**3.2 Mixtures**

Chemical name	EC No (EU Index No)	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	REACH registration number	M-Factor	M-Factor (long-term)
Potassium nitrate; $\text{KNO}_3$ (7757-79-1)	231-818-8	25 - 40%	Ox. Sol. 3 (H272)	-	01-2119488224-35	-	-
Nitric acid ammonium calcium salt; $\text{CaH}_4\text{N}_2\text{O}_3$ (15245-12-2)	239-289-5	25 - 40%	Eye Dam. 1 (H318) Acute Tox. 4 (H302)	-	01-2119493947-16	-	-
Urea phosphate; $\text{CH}_7\text{N}_2\text{O}_5\text{P}$ (4861-19-2)	224-534-0	10 - 25%	-	Skin Corr. 1B :: C >= 25% Skin Irrit. 2 :: 10% <= C < 25% Eye Irrit. 2 :: 10% <= C < 25% Skin Irrit. 3 :: C <= 10%	01-2119489460-34	-	-
Ammonium nitrate;	229-347-8	5 - 10%	Eye irrit. 2 (H319)	Eye Irrit. 2 ::	01-2119490981-	-	-

NH <sub>4</sub> NO <sub>3</sub> (6484-52-2)			Ox. Sol. 3 (H272)	10%<=C<100%	27		
Boric acid; H <sub>3</sub> BO <sub>3</sub> (10043-35-3)	233-139-2	0.1 - 1%	Repr. 1B (H360FD)	-	01-2119486683- 25	-	-
Copper-(NH <sub>4</sub> ) <sub>2</sub> -EDTA (67989-88-2)	268-018-3	0.1 - 1%	-	-	01-2119980793- 23	-	-

\*The exact percentage (concentration) of composition has been withheld as a trade secret

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

**Acute Toxicity Estimate**

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L
Potassium nitrate; KNO <sub>3</sub>	3015	5000	0.527
Nitric acid ammonium calcium salt; CaH <sub>4</sub> N <sub>2</sub> O <sub>3</sub>	300	2000	No data available
Ammonium nitrate; NH <sub>4</sub> NO <sub>3</sub>	2217	5000	88.8
Boric acid; H <sub>3</sub> BO <sub>3</sub>	2660	2000	2.12

This product contains one or more candidate substance(s) of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Chemical name	CAS No.	SVHC candidates
Boric acid; H <sub>3</sub> BO <sub>3</sub>	10043-35-3	X

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

<b>General advice</b>	Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.
<b>Inhalation</b>	Remove to fresh air. Get medical attention immediately if symptoms occur.
<b>Eye contact</b>	Get immediate medical attention. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician.
<b>Self-protection of the first aider</b>	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

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

**Symptoms** Burning sensation.

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

**Note to physicians** Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Large Fire** CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

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

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

**Hazardous Combustion Products** Thermal decomposition can lead to release of toxic/corrosive gases and vapors.

### 5.3. Advice for firefighters

**Special protective equipment and precautions for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

## SECTION 6: Accidental release measures

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

**Personal precautions** Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Ensure adequate ventilation.

**Other information** Refer to protective measures listed in Sections 7 and 8.

**For emergency responders** Use personal protection recommended in Section 8. Prevent entry into waterways, sewers, basements or confined areas.

### 6.2. Environmental precautions

**Environmental precautions** Prevent further leakage or spillage if safe to do so.

### 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 cleaning up** Take up mechanically, placing in appropriate containers for disposal. Use up product completely. Packaging material is industrial waste.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

### 6.4. Reference to other sections

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.

**General hygiene considerations** Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do

not eat, drink or smoke when using this product.

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

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Store locked up.

**Packaging materials** Keep in original container, tightly closed in a safe place.

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

**Specific use(s)** Fertilizer.

**Exposure scenario** Mixture. Not required.

**Risk Management Methods (RMM)** The information required is contained in this Safety Data Sheet.

**Other Information**

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Exposure Limits**

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Potassium nitrate; KNO <sub>3</sub>	-	-	-	TWA: 5.0 mg/m <sup>3</sup>	-
Boric acid; H <sub>3</sub> BO <sub>3</sub>	-	-	TWA: 2 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup>	TWA: 5.0 mg/m <sup>3</sup>	-
Copper-(NH <sub>4</sub> ) <sub>2</sub> -EDTA	-	TWA: 1 mg/m <sup>3</sup> TWA: 0.1 mg/m <sup>3</sup> STEL 4 mg/m <sup>3</sup> STEL 0.4 mg/m <sup>3</sup>	-	-	-
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Ammonium nitrate; NH <sub>4</sub> NO <sub>3</sub>	-	TWA: 10.0 mg/m <sup>3</sup>	-	-	-
Copper-(NH <sub>4</sub> ) <sub>2</sub> -EDTA	-	-	-	-	TWA: 0.02 mg/m <sup>3</sup>
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
Boric acid; H <sub>3</sub> BO <sub>3</sub>	-	TWA: 0.5 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> Peak: 10 mg/m <sup>3</sup>	-	-
Copper-(NH <sub>4</sub> ) <sub>2</sub> -EDTA	-	-	-	-	TWA: 0.1 mg/m <sup>3</sup> STEL: 0.2 mg/m <sup>3</sup>
Chemical name	Italy MDLPS	Latvia	Lithuania	Luxembourg	Netherlands
Potassium nitrate; KNO <sub>3</sub>	-	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>	-	-
Boric acid; H <sub>3</sub> BO <sub>3</sub>	-	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	-	-
Chemical name	Norway	Poland	Portugal	Romania	Slovakia
Boric acid; H <sub>3</sub> BO <sub>3</sub>	-	-	TWA: 2 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup>	-	-
Chemical name	Slovenia	Spain	Sweden	Switzerland	United Kingdom
Boric acid; H <sub>3</sub> BO <sub>3</sub>	TWA: 0.5 mg/m <sup>3</sup> STEL: 1.0 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup>	-	TWA: 1.8 mg/m <sup>3</sup> STEL: 1.8 mg/m <sup>3</sup>	-
Copper-(NH <sub>4</sub> ) <sub>2</sub> -EDTA	-	TWA: 0.01 mg/m <sup>3</sup>	-	-	TWA: 1 mg/m <sup>3</sup> STEL: 2 mg/m <sup>3</sup>

**Biological occupational exposure limits**

Derived No Effect Level (DNEL) No information available.  
 Predicted No Effect Concentration (PNEC) No information available.

**8.2. Exposure controls**

**Personal protective equipment** Wear normal, light working clothing

**Eye/face protection** Tight sealing safety goggles.

**Hand protection** Wear suitable gloves. Impervious gloves.

**Skin and body protection** Wear suitable protective clothing. Long sleeved clothing.

**General hygiene considerations** Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.

**Environmental exposure controls** Local authorities should be advised if significant spillages cannot be contained. Prevent product from entering drains.

**SECTION 9: Physical and chemical properties**

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

**Physical state** Solid  
**Appearance:** Prills, powder  
**Color:** Off-white  
**Odor:** Fertilizer.

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>Melting Point/Freezing Point:</b>	No data available	None known
<b>Boiling Point/Range:</b>	No data available	None known
<b>Flammability (solid, gas):</b>	No data available	None known
<b>Flammability Limits in Air:</b>		None known
<b>Upper Flammability Limit:</b>	Not applicable	
<b>Lower Flammability Limit:</b>	Not applicable	
<b>Flash Point:</b>	No data available	None known
<b>Autoignition Temperature:</b>	No data available	None known
<b>Decomposition Temperature:</b>		None known
<b>pH</b>	No data available	None known
<b>pH (as aqueous solution)</b>	No data available	None known
<b>Kinematic Viscosity:</b>	No data available	None known
<b>Dynamic Viscosity:</b>	No data available	None known
<b>Water solubility</b>	No data available	None known
<b>Solubility(ies)</b>	No data available	None known
<b>Partition Coefficient:</b>	No data available	None known
<b>Vapor Pressure:</b>	No data available	None known
<b>Relative density</b>	No data available	None known
<b>Bulk density</b>	No data available	
<b>Density:</b>	No data available	
<b>Vapour density</b>	No data available	None known
<b>Particle characteristics</b>		
<b>Particle Size</b>	No data available	
<b>Particle Size Distribution</b>	No data available	

**9.2. Other information** Not applicable

9.2.1. Information with regard to physical hazard classes  
 Not applicable

9.2.2. Other safety characteristics  
No information available

## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

**Reactivity** Not reactive.

### **10.2. Chemical stability**

**Stability** Stable under normal conditions.

#### **Specific methods:**

Sensitivity to mechanical impact Not sensitive.

Sensitivity to static discharge Not sensitive.

### **10.3. Possibility of hazardous reactions**

**Possibility of hazardous reactions** None under normal processing.

### **10.4. Conditions to avoid**

**Conditions to avoid** Keep away from open flames, hot surfaces and sources of ignition.

### **10.5. Incompatible materials**

**Incompatible materials** Strong acids. Strong bases. Strong oxidizing agents.

### **10.6. Hazardous decomposition products**

**Hazardous Decomposition Products** None under normal processing. None under normal use conditions. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

## **SECTION 11: Toxicological information**

### **11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

#### **Information on likely routes of exposure**

##### **Product Information**

<b>Inhalation</b>	Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.
<b>Eye contact</b>	Causes serious eye damage.
<b>Skin contact</b>	Causes skin irritation.
<b>Ingestion</b>	Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Harmful if swallowed. (based on components).

#### **Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** Redness. Burning. May cause blindness. May cause redness and tearing of the eyes.

#### **Numerical measures of toxicity**

**Acute toxicity**

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

ATEmix (oral) 1,850.50 mg/kg

**Unknown acute toxicity**

**Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Potassium nitrate; KNO <sub>3</sub>	= 3015 mg/kg ( Rat )	> 5000 mg/kg ( Rat )	> 0.527 mg/L ( Rat ) 4 h
Nitric acid ammonium calcium salt; CaH <sub>4</sub> N <sub>2</sub> O <sub>3</sub>	300 - 2000 mg/kg ( Rat )	> 2000 mg/kg ( Rat )	-
Urea phosphate; CH <sub>7</sub> N <sub>2</sub> O <sub>5</sub> P	= 2600 mg/kg (Rat)	-	-
Ammonium nitrate; NH <sub>4</sub> NO <sub>3</sub>	= 2217 mg/kg ( Rat )	> 5000 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 )	> 2.12 mg/L ( Rat ) 4 h

**Delayed and Immediate Effects as well as Chronic Effects from Short and Long-Term Exposure:**

**Skin corrosion/irritation** Classification based on data available for ingredients. Irritating to skin.

**Serious eye damage/eye irritation** Classification based on data available for ingredients. Causes burns. Risk of serious damage to eyes.

**Respiratory or skin sensitization** Based on available data, the classification criteria are not met.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

**Carcinogenicity** Based on available data, the classification criteria are not met.

**Reproductive toxicity** Based on available data, the classification criteria are not met.

Chemical name	European Union
Boric acid; H <sub>3</sub> BO <sub>3</sub> 10043-35-3	Repr. 1B

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as reproductive toxins.

**STOT - single exposure** Based on available data, the classification criteria are not met.

**STOT - repeated exposure** Based on available data, the classification criteria are not met

**Aspiration hazard** Based on available data, the classification criteria are not met

**Endocrine disrupting properties**

**SECTION 12: Ecological information**

**12.1. Toxicity**

**Ecotoxicity**

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Boric acid; H <sub>3</sub> BO <sub>3</sub>	-	-	-	EC50: 115 - 153mg/L (48h, Daphnia magna)

**12.2. Persistence and degradability**



**Persistence and Degradability:** No information available.

**12.3. Bioaccumulative potential**

**Bioaccumulation** There is no data for this product.

**Component Information**

Chemical name	Partition coefficient
Ammonium nitrate; NH <sub>4</sub> NO <sub>3</sub>	-3.1
Boric acid; H <sub>3</sub> BO <sub>3</sub>	-1.09

**12.4. Mobility in soil**

**Mobility in soil** no data available.

**Mobility** no data available.

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

**PBT and vPvB assessment**

Chemical name	PBT and vPvB assessment
Potassium nitrate; KNO <sub>3</sub>	The substance is not PBT / vPvB PBT assessment does not apply
Nitric acid ammonium calcium salt; CaH <sub>4</sub> N <sub>2</sub> O <sub>3</sub>	The substance is not PBT / vPvB PBT assessment does not apply
Urea phosphate; CH <sub>7</sub> N <sub>2</sub> O <sub>5</sub> P	The substance is not PBT / vPvB PBT assessment does not apply
Ammonium nitrate; NH <sub>4</sub> NO <sub>3</sub>	The substance is not PBT / vPvB PBT assessment does not apply Further information relevant for the PBT assessment is necessary
Boric acid; H <sub>3</sub> BO <sub>3</sub>	The substance is not PBT / vPvB PBT assessment does not apply
Copper-(NH <sub>4</sub> ) <sub>2</sub> -EDTA	The substance is not PBT / vPvB

**12.6. Endocrine disrupting properties This product does not contain any known or suspected endocrine disruptors**

**12.7. Other adverse effects**

. No information available.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

**Other Information** Use up product completely. Packaging material is industrial waste. If material is uncontaminated, collect and reuse as recommended for product.

**SECTION 14: Transport information**

**IMDG**

**14.1**

**UN-No:** 1479

**14.2**

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

**14.3**

**Transport hazard class(es)** 5.1

**14.4**

Packing group: Limited Quantity 14.5	III 5 kg
Marine Pollutant: 14.6	Not regulated
EmS: Special Provisions 14.7	F-A / S-Q 223, 274, 900
Bulk transport according Annex II of MARPOL and IBC Code	No data available

#### ADR

14.1	
UN-No:	1479
14.2	
Proper shipping name: 14.3	Oxidizing solid, N.O.S. (Potassium nitrate, Ammonium nitrate)
Transport hazard class(es) 14.4	5.1
Packing group: 14.5	III
Environmental hazards 14.6	Not regulated
Special Provisions Tunnel restriction code Limited Quantity	274 E 5 kg

#### IATA

14.1	
UN number or ID number 14.2	1479
Proper shipping name: 14.3	Oxidizing solid, N.O.S. (Potassium nitrate, Ammonium nitrate)
Transport hazard class(es) 14.4	5.1
Packing group 14.5	III
Environmental hazards 14.6	Not regulated
Special Provisions	A3



## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### National regulations

Denmark  
France  
ICPE

Classified installation: article 4706

Germany

Gefahrstoffverordnung (Germany) TRGS 511  
 Water hazard class (WGK)

C III  
 non-hazardous to water (nwg)

Chemical name	German WGK Section
Potassium nitrate; KNO <sub>3</sub>	Reg. no. 346, hazard class 1 - slightly hazardous to water
Nitric acid ammonium calcium salt; CaH <sub>4</sub> N <sub>2</sub> O <sub>3</sub>	3
Urea phosphate; CH <sub>7</sub> N <sub>2</sub> O <sub>5</sub> P	Reg. no. 6537, hazard class 1 - slightly hazardous to water
Ammonium nitrate; NH <sub>4</sub> NO <sub>3</sub>	Reg. no. 212, hazard class 1 - slightly hazardous to water
Boric acid; H <sub>3</sub> BO <sub>3</sub>	Reg. no. 315, hazard class 1 - slightly hazardous to water
Copper-(NH <sub>4</sub> ) <sub>2</sub> -EDTA	Reg. no. 2351, hazard class 2 - obviously hazardous to water

#### Netherlands

Chemical name	Netherlands - List of Carcinogens	Netherlands - List of Mutagens	Netherlands - List of Reproductive Toxins
Boric acid; H <sub>3</sub> BO <sub>3</sub>	-	-	Fertility Category 1B Development Category 1B

#### European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

#### Take note of Directive 94/33/EC on the protection of young people at work

Not to be used by professional users below 18 years of age, see the National Working Environment Authorities Executive Order on young peoples dangerous work.

#### Authorizations and/or restrictions on use:

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorization per REACH Annex XIV
Ammonium nitrate; NH <sub>4</sub> NO <sub>3</sub>	58.	-
Boric acid; H <sub>3</sub> BO <sub>3</sub>	30. 75.	-

#### REGULATION (EU) 2019/1148 on the marketing and use of explosives precursors

Chemical name	REGULATION (EU) 2019/1148 on the marketing and use of explosives precursors
Potassium nitrate; KNO <sub>3</sub>	Present
Nitric acid ammonium calcium salt; CaH <sub>4</sub> N <sub>2</sub> O <sub>3</sub>	Present
Ammonium nitrate; NH <sub>4</sub> NO <sub>3</sub>	Present (16% by weight of N in relation to AN or higher)

Acquisition, introduction, possession or use of this product by the general public is restricted by Regulation (EU) 2019/1148. All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.

#### Persistent Organic Pollutants

Not applicable

#### Named dangerous substances per Seveso Directive (2012/18/EU)

Chemical name	Lower-tier requirements (tons)	Upper-tier requirements (tons)
Ammonium nitrate; NH <sub>4</sub> NO <sub>3</sub>	350	2500 5000

#### Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

EU - Plant Protection Products (1107/2009/EC)

Biocidal Products Regulation (EU) No 528/2012 (BPR)

Chemical name	Biocidal Products Regulation (EU) No 528/2012 (BPR)
Boric acid; H <sub>3</sub> BO <sub>3</sub>	Product-type 8: Wood preservatives Product type 8 (details in Commission Implementing Decision 2017/2334/EU) 8 - Wood preservatives

International Inventories:

Legend:

- TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
- DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List
- EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- ENCS - Japan Existing and New Chemical Substances
- IECSC - China Inventory of Existing Chemical Substances
- KECL - Korean Existing and Evaluated Chemical Substances
- PICCS - Philippines Inventory of Chemicals and Chemical Substances
- AICS - Australian Inventory of Chemical Substances

15.2. Chemical safety assessment

**Chemical Safety Report** Substance(s) usage is covered according to Reach regulation 1907/2006

**SECTION 16: Other information**

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

**Full text of H-Statements referred to under section 3**

- H272 - May intensify fire; oxidizer
- H302 - Harmful if swallowed
- H314 - Causes severe skin burns and eye damage
- H315 - Causes skin irritation
- H318 - Causes serious eye damage
- H319 - Causes serious eye irritation
- H360FD - May damage fertility. May damage the unborn child

**Legend**

- SVHC: Substances of Very High Concern for Authorization:
- PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances
- vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances

**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

- TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)
- Ceiling Maximum limit value \* Skin designation

**Classification procedure**

- Calculation method
- Expert judgment and weight of evidence determination

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapor	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method

Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitization	Calculation method
Skin sensitization	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

**Key literature references and sources for data used to compile the SDS**

Agency for Toxic Substances and Disease Registry (ATSDR)  
U.S. Environmental Protection Agency ChemView Database  
European Food Safety Authority (EFSA)  
EPA (Environmental Protection Agency)  
Acute Exposure Guideline Level(s) (AEGl(s))  
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
U.S. Environmental Protection Agency High Production Volume Chemicals  
Food Research Journal  
Hazardous Substance Database  
International Uniform Chemical Information Database (IUCLID)  
Japan GHS Classification  
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
NIOSH (National Institute for Occupational Safety and Health)  
National Library of Medicine's ChemID Plus (NLM CIP)  
National Library of Medicine's PubMed database (NLM PUBMED)  
National Toxicology Program (NTP)  
New Zealand's Chemical Classification and Information Database (CCID)  
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications  
Organization for Economic Co-operation and Development High Production Volume Chemicals Program  
Organization for Economic Co-operation and Development Screening Information Data Set  
World Health Organization

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**Restrictions on use** Restricted to professional users.

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

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**End of Safety Data Sheet**