Safety Data Sheet

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Version: 1

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

1.1. Product identifier Product Name Product Code: Synonyms: Pure substance/mixture

Peters Professional 20-10-20 Peat-Lite Special G99256EU Peters Professional 20-4.4-16.6+TE Mixture.

1.2. Relevant identified uses of the substance or mixture and uses advised againstRecommended UseFertilizer (PC12). Restricted to professional users.Uses Advised Against:Consumer use [SU 21].

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.

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 (CLP) Oxidizing solids

Category 3 - (H272)

2.2. Label elements



Signal Word: Warning

Hazard Statements:

H272 - May intensify fire; oxidizer

Precautionary Statements:

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

P220 - Keep/Store away from clothing/ combustible materials

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

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Chemical Name	EC-No.	CAS No	Weight %	Classification according Regulation (EC) 1272/2008	•
				[ĊLP]	

Ammonium nitrate; NH4NO3	229-347-8	6484-52-2	40 - 65%	Eye Irrit. 2 (H319) Ox. Sol. 3 (H272)	01-2119490981-27
Potassium nitrate; KNO3	231-818-8	7757-79-1	25 - 40%	Ox. Sol. 3 (H272)	01-2119488224-35
Boric acid; H ₃ BO ₃	233-139-2	10043-35-3	0.1 - 1%	Repr. 1B (H360FD)	01-2119486683-25

Component	SVHC candidates
Boric acid; H ₃ BO ₃	Present
10043-35-3 (0.1 - 1%)	

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

Section 4: FIRST AID MEASURES 4.1. Description of first aid measures **General Advice:** First aid measures should be executed by trained personnel only. Inhalation In the case of inhalation of aerosol/mist consult a physician if necessary. Possible symptoms are coughing and/or dysphoea. If breathing is difficult, give oxygen. Move to fresh air. If skin irritation persists, call a physician. Skin Contact: Eye Contact: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Ingestion: Possible symptoms are nausea and/or vommiting. Clean mouth with water and drink afterwards plenty of water. If a person vomits when lying on his back, place him in the recovery position. Do not induce vomiting without medical advice. Consult a physician if necessary.

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

None under normal processing

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

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

Use extinguishing agent suitable for type of surrounding fire. In the event of fire and/or explosion do not breathe fumes. 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:

Ensure adequate ventilation. Avoid dust formation. Use personal protective equipment. Wear personal protective equipment. Use personal protection recommended in Section 8.

For Emergency Responders:

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.

Keep containers dry and tightly closed to avoid moisture

7.2. Conditions for safe storage, including any incompatibilities

Technical measures/storage conditions:

Packaging Materials: PGS-7 (The Netherlands) LGK (Germany)

7.3. Specific end use(s)

Specific use(s) Exposure scenario 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 packaging should be closed well. Keep at temperatures between 0 °C and 40 °C. Store in original container. Store in a closed container. 1.3/C

5.1B

Fertilizer; www.everris.com; Read and follow label instructions Mixture. Not required.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Ammonium nitrate; NH4NO3				
Australia	N.A.			
Czech Republic OEL	10.0 mg/m³ TWA			
Potassium nitrate; KNO3				
Australia	> 10 mg/m ³			
Bulgaria - OEL- TWAs	5.0 mg/m ³ TWA			
Latvia - OEL - TWAs	5 mg/m³ TWA			
Boric acid; H ₃ BO ₃				
Australia	12 mg/m ³			
Belgium - 8 Hr TWA	2 mg/m ³ TWA borate			
Bulgaria - OEL- TWAs	5.0 mg/m ³ TWA (as B, listed under Boron and its inorganic compounds)			
Ireland	TWA: 2 mg/m ³			
	STEL: 6 mg/m ³			
Latvia - OEL - TWAs	10 mg/m³ TWA			
Portugal	STEL: 6 mg/m ³			
	TWA: 2 mg/m ³			
Spain - Valores Limite Ambientales - VLE	STEL: 6 mg/m ³			
	TWA: 2 mg/m ³			
Switzerland	STEL: 1.8 mg/m ³			
	TWA: 1.8 mg/m ³			

Derived No Effect Level (DNEL)

Component	Oral	Dermal	Inhalation
Ammonium nitrate; NH4NO3 6484-52-2 (40 - 65%)	36 mg/m ³	5.12 mg/kg bw/day	8.9 mg/m ³
Potassium nitrate; KNO₃ 7757-79-1(25 - 40%)		20.8 mg/kg bw/day	36.7 mg/m ³

Predicted No Effect Concentration (PNEC) No data available

Component	Fresh Water	Freshwater sediment	Sea Water	Sea sediment	Soil	Impact on Sewage Treatment
Ammonium nitrate; NH4NO3 6484-52-2 (40 - 65%)						18 mg/l
Potassium nitrate; KNO ₃ 7757-79-1 (25 - 40%)	0.45 mg/l		0.045 mg/l			18 mg/l

8.2. Exposure controls

Personal protective equipment	
Eye/Face Protection	Wear eye/face protection
Hand protection	Gloves. Nitrile rubber (0.26 mm). Break through time. > 8 h.
Respiratory Protection	Not required; except in case of aerosol formation. In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit
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.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical State:	Solid
Appearance:	Prills, powder
Color:	blue.
Odor:	Fertilizer
Bulk density:	800 - 1100 kg/m³
pH:	4.5 (@ 200 g/l)
Melting Point/Freezing Point:	No data available
Boiling Point/Range:	Solid. Not applicable.
Flash Point:	Solid. Not applicable.
Evaporation Rate:	Solid. Not applicable.
Flammability (solid, gas):	Not flammable
Vapor Pressure:	Solid. Not applicable.
Vapour density	Solid. Not applicable.
Relative density	No data available
Water Solubility:	No data available
Solubility(ies)	No data available
Partition Coefficient:	Solid. Not applicable.
Autoignition Temperature:	No data available
Decomposition temperature:	No data available
Explosive Properties:	Doesn't present explosion hazard.
Oxidizing Properties:	May intensify fire; oxidizer.
9.2. Other information	
VOC Content (%):	Solid. Not applicable.

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity Not reactive.

10.2. Chemical stability

Stable under normal conditions. **10.3. Possibility of hazardous reactions** None under normal processing. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

10.4. Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition. Burning produces obnoxious and toxic fumes.

10.5. Incompatible materials

Keep away from catalysts like derivates 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. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Product Information

If this product is a mixture, the classification is not based on toxicology studies for this product, but is based solely on toxicology studies for ingredients found within this product. More detailed substance and/or ingredient information may be provided in the other sections of this SDS

Unknown Acute Toxicity:	0% of the mixture consists of ingredient(s) of unknown toxicity.			
Information on the Likely Routes of	Exposure (inhalation, ingestion, skin and eye contact):			
Inhalation	Inhalation of dust in high concentration may cause irritation of respiratory system.			

Eye contactMay cause slight irritation.

Skin Contact May cause irritation.

Ingestion

May cause gastrointestinal discomfort if consumed in large amounts.

Information on Toxicological Effects

None known Acute Toxicity

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation	
Ammonium nitrate; NH4NO3	= 2217 mg/kg (Rat)	> 5000 mg/kg	> 88.8 mg/L (Rat) 4 h	
Potassium nitrate; KNO3	= 3015 mg/kg (Rat)	> 2000 mg/kg	> 527 mg/m ³	
Boric acid; H ₃ BO ₃	= 2660 mg/kg (Rat)	> 2000 mg/kg	> 0.16 mg/L (Rat) 4 h	

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

If this product is a mixture, the classification is not based on toxicology studies for this product, but is based solely on toxicology studies for ingredients found within this product. More detailed substance and/or ingredient information may be provided in the other sections of this SDS

Serious eye damage/eye irritation	Classification based on individual ingredients of the mixture.
Respiratory or skin sensitization	Classification based on individual ingredients of the mixture.
Germ Cell Mutagenicity	Classification based on individual ingredients of the mixture.
Carcinogenicity	Classification based on individual ingredients of the mixture.
Reproductive Toxicity	Classification based on individual ingredients of the mixture.
STOT - Single Exposure	Classification based on individual ingredients of the mixture.
STOT - Repeated Exposure	Classification based on individual ingredients of the mixture.
Aspiration Hazard	Classification based on individual ingredients of the mixture.

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity Ecotoxicity

Should not be released into the environment

Unknown Aquatic Toxicity

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

Chemical Name	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
Ammonium nitrate; NH₄NO₃	-	65 - 85: 48 h Cyprinus carpio mg/L LC50 semi-static	-	-
Boric acid; H ₃ BO ₃	-	1020: 72 h Carassius auratus mg/L LC50 flow-through	-	115 - 153: 48 h Daphnia magna mg/L EC50

12.2. Persistence and degradability Persistence and Degradability:

No persistent or cumulative effects were observed.

12.3. Bioaccumulative potential Bioaccumulation:

Does not bioaccumulate.

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Chemical Name	LOGPOW
Ammonium nitrate; NH4NO3	-3.1
Boric acid; H ₃ BO ₃	-0.757
12.4. Mobility in soil	No data available.
12.5. 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 reuse container.
Other Information	Use up product completely. Packaging material is industrial waste.

Section 14: TRANSPORT INFORMATION

IMO / IMDG		
14.1		
UN-No:	1477	
<u>14.2</u>		
Proper shipping name:	Nitrates, Inorganic N.O.S.	
<u>14.3</u>		
Hazard Class:	5.1	
<u>14.4</u>		
Packing group:	III	
Limited Quantity	5 kg	
<u>14.5</u>		
Marine Pollutant:	No information available	
<u>14.6</u>		
Special Provisions	223	
<u>14.7</u>		
Bulk transport according Annex II of MARPOL and IBC Code No data available		
ADR/RID		

14.11477UN-No:147714.2Nitrates, Inorganic N.O.S.

<u>14.3</u>		
Hazard Class:	5.1	
<u>14.4</u>		
Packing group:	111	
14.5_ Environmental Hazard	Not regulated	
<u>14.6</u>	Notrogalatoa	
Special Provisions	511	
Tunnel restriction code	3 (E)	
Limited Quantity	5 kg	

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ΙΑΤΑ	
<u>14.1</u>	
UN-No:	1477
14.2	
Proper shipping name:	Nitrates, Inorganic N.O.S.
<u>14.3</u>	_ /
Hazard Class:	5.1
<u>14.4</u>	
Packing group:	III
<u>14.5</u>	
Environmental Hazard	Not regulated
<u>14.6</u>	
Special Provisions	A3



Section 15: REGULATORY INFORMATION

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

Belgium

Component	Belgium - Major Accidents - Qualifying Quantities for Safety Reporting	Belgium - Major Accidents - Qualifying Quantities for Accident Prevention
Ammonium nitrate; NH₄NO₃ 6484-52-2 (40 - 65%)	2500 tonne (technical grade; (a) this applies to Ammonium nitrate in which the Nitrogen content as a result of Ammonium nitrate is (i) between 24.5% and 28% by weight and which contain <=0.4% total combustible or (ii) >28% by weight and which contain <=0.2% combustible substances (b) aqueous Ammonium nitrate solutions in which the concentration of Ammonium nitrate is >80% by weight)	
Potassium nitrate; KNO₃ 7757-79-1 (25 - 40%)	10000 tonne; 5000 tonne	5000 tonne (in cases where this dangerous substance falls within category P5a Flammable liquids or P5b Flammable liquids, then for the purposes of this Regulation the lowest qualifying quantities applies); 1250 tonne

Denmark Denmark

No data available

France ICPE

Classified installation: article 4706

<u>Germany</u>

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

5.1B 1 (Everris classification) C III

Component	German WGK Section
Ammonium nitrate; NH4NO3	1
6484-52-2 (40 - 65%)	
Potassium nitrate; KNO3	1
7757-79-1(25 - 40%)	
Boric acid; H ₃ BO ₃	1
10043-35-3 (0.1 - 1%)	

Component	EU - Explosives Precursors Marketing and Use (98/2013) - Substances Subject to Suspicious Transactions Reporting	EU - REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances
Ammonium nitrate; NH₄NO₃ 6484-52-2(40-65%)	Present (in concentration of 16% by weight of Nitrogen in relation to Ammonium nitrate or higher)	Use restricted. See item 58. (Conditions of restrictions 27 June 2010)
Potassium nitrate; KNO₃ 7757-79-1 (25 - 40%)	Present	
Boric acid; H₃BO₃ 10043-35-3 (0.1 - 1%)		Use restricted. See item 30.

	EU - REACH (1907/2006) - Article 59(1) - Candidate List of Substances for Eventual Inclusion in Annex XIV	
Boric acid; H3BO3	Reason for inclusion Toxic for reproduction, Article 57c (233-139-2)	
10043-35-3 (0.1 - 1%)		

15.2 Chemical safety assessment

Substance(s) usage is covered according to Reach regulation 1907/2006 Take note of Dir. 98/24/EC on the protection of the health and safety of workers from risks related to chemical agents at work

Chemical Name	Restricted substance per REACH Annex XVII	Substance subject to authorization per REACH Annex XIV
Ammonium nitrate; NH4NO3	Use restricted. See item 58.	
Boric acid; H ₃ BO ₃	Use restricted. See item 30.	

Chemical Name	Lower-tier requirements (tons)	Upper-tier requirements (tons)
	350	2500
Ammonium nitrate; NH4NO3		

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
- 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 phrase: CLP (EU) specific hazard statement LD50: Lethal dose, 50%. LC50: Lethal concentration, 50%. SVHC: Substance of Very High Concern. · Calculation method **Classification procedure** · 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 (CLP). Prepared by Regulatory Affairs Department (INFO-MSDS@EVERRIS.COM) **Issue Date** 30-Oct-2013 **Restrictions on use** Restricted to professional users *** Indicates changes since the last revision. This version **Reason for revision** replaces all previous versions 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

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