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 23-Oct-2024

Version: 2

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

1.1. Product identifier Product Name Product Code Unique Formula Identifier (UFI) Safety data sheet number

Peters Professional Orchid Special 20+12+20+3MgO+TE 2125-215HA Not required 2125-215HA

REACH registration number Pure substance/mixture Not applicable 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-RA@ICL-GROUP.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	+32 (0) 70 245 245	
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	+47 22 59 13 00	
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]

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

2.2. Label elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP] Hazard statements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

EUH210 - Safety data sheet available on request

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; KNO ₃ (7757-79-1)	231-818-8	25 - 40%	Ox. Sol. 3 (H272)	-	01-2119488224- 35-0020	-	-
Boric acid; H ₃ BO ₃ (10043-35-3)	233-139-2 (005-007-00-2)	0.1 - 0.3%	Repr. 1B (H360FD)	-	01-2119486683- 25	-	-
Copper-(NH4)2-EDTA (67989-88-2)	268-018-3	0.1 - 0.3%	Acute Tox. 4 (H302) Skin Irrit. 2 (H315)	-	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; KNO₃	3015	5000	0.527
Boric acid; H ₃ BO ₃	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 ₃ BO ₃	10043-35-3	Х	

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). First aid measures should be executed by trained personnel only.

Inhalation	In the case of inhalation of aerosol/mist consult a physician if necessary. If not breathing, give artificial respiration. If symptoms persist, call a physician. Dusty conditions are unlikely if product is used as intended. However, if prolonged inhalation of dust occurs, remove casualty to fresh air.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice.
4.2. Most important symptoms and	effects, both acute and delayed
Symptoms	None known.

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Ensure adequate ventilation. Wear protective gloves/clothing and eye/face protection.
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	See Section 12 for additional Ecological Information. Do not flush into surface water or

sanitary sewer system.

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	Ensure adequate ventilation. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with eyes. Avoid generation of dust. In case of insufficient ventilation, wear suitable respiratory equipment.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke.
7.2. Conditions for safe storage, inc	cluding any incompatibilities
Storage Conditions	KEEP OUT OF REACH OF CHILDREN AND PETS. 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 packaging should be closed well. Keep away from frost.
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; KNO3	-	-	-	TWA: 5.0 mg/m ³	-
Boric acid; H ₃ BO ₃	-	-	TWA: 2 mg/m ³	TWA: 5.0 mg/m ³	-
			STEL: 6 mg/m ³		
Copper-(NH4)2-EDTA	-	TWA: 1 mg/m ³	-	-	-
		TWA: 0.1 mg/m ³			
		STEL 4 mg/m ³			

		STEL 0.4 mg/m ³			
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Copper-(NH4)2-EDTA	-	-	-	-	TWA: 0.02 mg/m ³
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
Boric acid; H ₃ BO ₃	-	TWA: 0.5 mg/m ³	TWA: 10 mg/m ³ Peak: 10 mg/m ³	-	-
Copper-(NH4)2-EDTA	-	-	-	-	TWA: 0.1 mg/m ³ STEL: 0.2 mg/m ³
Chemical name	Italy MDLPS	Latvia	Lithuania	Luxembourg	Netherlands
Potassium nitrate; KNO3	-	TWA: 5 mg/m ³	TWA: 5 mg/m ³	-	-
Boric acid; H ₃ BO ₃	-	TWA: 10 mg/m ³	TWA: 10 mg/m ³	-	-
Chemical name	Norway	Poland	Portugal	Romania	Slovakia
Boric acid; H ₃ BO ₃	-	-	TWA: 2 mg/m ³ STEL: 6 mg/m ³	-	-
Chemical name	Slovenia	Spain	Sweden	Switzerland	United Kingdom
Boric acid; H ₃ BO ₃	TWA: 0.5 mg/m ³ STEL: 1.0 mg/m ³	TWA: 2 mg/m ³ STEL: 6 mg/m ³	-	TWA: 1.8 mg/m ³ STEL: 1.8 mg/m ³	-
Copper-(NH4)2-EDTA	-	TWA: 0.01 mg/m ³	-	_	TWA: 1 mg/m ³ STEL: 2 mg/m ³

Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL)

No information available.

8.2. Exposure controls

Personal protective equipment	Wear normal, light working clothing
Eye/face protection	Wear safety glasses with side shields (or goggles).
Hand protection	Nitrile rubber (0.26 mm). Break through time. > 8 h.
Skin and body protection	Lightweight protective clothing.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.
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.		
Property	Values	Remarks • Method	
Melting Point/Freezing Point:	No data available	None known	
Boiling Point/Range:	No data available	None known	
Flammability (solid, gas):	No data available	None known	
Flammability Limits in Air:		None known	

Upper Flammability Limit: Lower Flammability Limit:	Not applicable Not applicable	
Flash Point:	No data available	None known
Autoignition Temperature:	No data available	None known
Decomposition Temperature:		None known
рН	No data available	None known
pH (as aqueous solution)	No data available	None known
Kinematic Viscosity:	No data available	None known
Dynamic Viscosity:	No data available	None known
Water solubility	No data available	None known
Solubility(ies)	No data available	None known
Partition Coefficient:	No data available	None known
Vapor Pressure:	No data available	None known
Relative density	No data available	None known
Bulk density	No data available	
Density:	No data available	
Vapour density	No data available	None known
Particle characteristics		
Particle Size	No data available	
Particle Size Distribution	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 Sensitivity to static discharge	Not sensitive. Not sensitive.
10.3. Possibility of hazardous react	ions
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	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	
Hazardous Decomposition Products	None under normal use conditions. 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 hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of exposure

Product Information

Inhalation	Specific test data for the substance or mixture is not available. Inhalation of dust in high concentration may cause irritation of respiratory system.
Eye contact	Specific test data for the substance or mixture is not available. May cause irritation.
Skin contact	May cause irritation.
Ingestion	May cause gastrointestinal discomfort if consumed in large amounts.
Symptoms related to the ph	ysical, chemical and toxicological characteristics

Symptoms	No information available.
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Numerical measures of toxicity

Acute toxicity

0 % of the mixture consists of ingredient(s) of unknown acute toxicity

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Potassium nitrate; KNO ₃	= 3015 mg/kg (Rat)	> 5000 mg/kg (Rat)	>0.527 mg/L (Rat)4 h
Boric acid; H ₃ BO ₃	= 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	No information available.	
Serious eye damage/eye irritation	No information available.	
Respiratory or skin sensitization	Based on available data, the clas	sification criteria are not met.
Germ cell mutagenicity	Based on available data, the clas	sification criteria are not met.
Carcinogenicity Reproductive toxicity	Based on available data, the clas Based on available data, the clas	
Chemical	name	European Union
Boric acid; H ₃ BO ₃		Repr. 1B
10043-35-3		•
	The table below indicates ingredi which are listed as reproductive t	ents above the cut-off threshold considered as relevant oxins.

STOT - single exposure STOT - repeated exposure Aspiration hazard Endocrine disrupting properties Not applicable. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met Based on available data, the classification criteria are not met

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity

Unknown aquatic toxicity

Contains 0 % of components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Boric acid; H ₃ BO ₃	-	-	-	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
Boric acid; H ₃ BO ₃	-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; KNO3	The substance is not PBT / vPvB
Boric acid; H ₃ BO ₃	The substance is not PBT / vPvB
Copper-(NH4)2-EDTA	The substance is not PBT / vPvB

12.6. Endocrine disrupting properties

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:	Not regulated
<u>14.2</u>	
Proper shipping name:	Not regulated
<u>14.3</u>	
Transport hazard class(es)	Not regulated
<u>14.4</u>	Not regulated
Packing group: 14.5	Not regulated
Marine Pollutant:	Not regulated
14.6	Not regulated
Special Provisions	None
14.7	
Bulk transport according Annex II of MARPOL and IBC Code No data available	

ADR	
<u>14.1</u>	
UN-No:	Not regulated
14.2	
Proper shipping name:	Not regulated
<u>14.3</u>	
Transport hazard class(es)	Not regulated
<u>14.4</u>	
Packing group:	Not regulated
<u>14.5</u>	
Environmental hazards	Not regulated
<u>14.6</u>	
Special Provisions	None
ΙΑΤΑ	
14.1	
<u>14.1</u>	Not regulated
14.1 UN number or ID number 14.2	-
14.1 UN number or ID number <u>14.2</u> Proper shipping name:	Not regulated Not regulated
14.1 UN number or ID number 14.2 Proper shipping name: 14.3_	Not regulated
14.1UN number or ID number14.2Proper shipping name:14.3Transport hazard class(es)	-
14.1UN number or ID number14.2Proper shipping name:14.3Transport hazard class(es)14.4	Not regulated
14.1UN number or ID number14.2Proper shipping name:14.3Transport hazard class(es)14.4Packing group	Not regulated
14.1UN number or ID number14.2Proper shipping name:14.3Transport hazard class(es)14.4Packing group14.5	Not regulated Not regulated Not regulated
14.1UN number or ID number14.2Proper shipping name:14.3Transport hazard class(es)14.4Packing group14.5Environmental hazards	Not regulated
14.1UN number or ID number14.2Proper shipping name:14.3Transport hazard class(es)14.4Packing group14.5Environmental hazards14.6	Not regulated Not regulated Not regulated Not regulated
14.1UN number or ID number14.2Proper shipping name:14.3Transport hazard class(es)14.4Packing group14.5Environmental hazards	Not regulated Not regulated Not regulated

SECTION 15: Regulatory information

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

National regulations

Denmark France

Germany

Water hazard class (WGK)

non-hazardous to water (nwg)

Chemical name	German WGK Section
Potassium nitrate; KNO ₃	Reg. no. 346, hazard class 1 - slightly hazardous to water
Boric acid; H ₃ BO ₃	Reg. no. 315, hazard class 1 - slightly hazardous to water
Copper-(NH4)2-EDTA	Reg. no. 2351, hazard class 2 - obviously hazardous to
	water

Netherlands

Chemical name	Netherlands - List of	Netherlands - List of	Netherlands - List of
	Carcinogens	Mutagens	Reproductive Toxins
Boric acid; H ₃ BO ₃	-	-	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
Boric acid; H₃BO₃	Use restricted. See entry 30. Use restricted. See entry 75.	-

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

Chemical name	RE	EGULATION (EU) 2019/1148 on the marketing and
	us	se of explosives precursors
Potassium nitrate; KNO3	Pr	resent

This product is regulated by Regulation (EU) 2019/1148: all suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point

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)
	Product-type 8: Wood preservatives
Boric acid; H ₃ BO ₃	

International Inventories:	
TSCA	Thi
PICCS:	Thi
Australian Inventory of Chemical	Thi
Substances	

This product complies with USINV This product does not comply with phil: This product does not comply with AICS

Legend:

DSL/NDSL - 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

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	Sk*	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

Prepared by	Regulatory Affairs Department (INFO-MSDS@EVERRIS.COM)
Last Revision Date	23-Oct-2024
Restrictions on use	Restricted to professional users.

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

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End of Safety Data Sheet