

Safety Data Sheet

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Version: 5.01

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

1.1. Product identifier

Product Name: Peters Professional 20-5-30+TE
Product Code: 21100215EA
Synonyms: Peters Professional 20-2.2-24.9+TE

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

Oxidizing solids	Category 3 - (H272)
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2.2. Label elements

Product Identifier:



Signal Word:

Warning

H272 - May intensify fire; oxidizer

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

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 ₃	231-818-8	7757-79-1	65 - 80%	Ox. Sol. 3 (H272)	01-2119488224-35
Urea	200-315-5	57-13-6	10 - 25%	Not classified	01-2119463277-33
Iron EDTA; Fe-EDTA	239-802-2	15708-41-5	1 - 5%	Not classified	01-2119496228-27
Manganese-EDTA, Mn-EDTA	239-407-5	15375-84-5	0.1 - 1%	Not classified	01-2119493600-40
Boric Acid; H ₃ BO ₃	233-139-2	10043-35-3	0.1 - 1%	Repr. 1B (H360FD)	01-2119486683-25
Zinc-EDTA; Zn-EDTA	237-865-0	14025-21-9	0.1 - 1%	Not classified	01-2119963942-27
Copper-EDTA; Cu-EDTA	237-864-5	14025-15-1	0.1 - 1%	Eye Irrit. 2 (H319) Acute Tox. 4 (H302)	01-2119963944-23
Sodium molybdate; Na ₂ MoO ₄ +2H ₂ O	231-551-7	7631-95-0	< 0.1%	Not classified	01-2119489495-21

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 dyspnoea. If breathing is difficult, give oxygen. Move to fresh air.
Skin Contact:	If skin irritation persists, call a physician.
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 vomiting. 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.
Protection of First-Aiders:	Avoid contact with eyes. 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.

Hazchem code:

1Y

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Avoid dust formation. Wear personal protective equipment.

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 parametersPotassium Nitrate: KNO₃

Bulgaria - Occupational Exposure Limits - TWAs

5.0 mg/m³ TWA

Latvia - Occupational Exposure Limits - TWAs

5 mg/m³ TWA

Urea

Bulgaria - Occupational Exposure Limits - TWAs

10.0 mg/m³ TWA

Latvia - Occupational Exposure Limits - TWAs

10 mg/m³ TWA

Norway	TWA: 30 µg Hg/g Creatinine STEL: 45 µg Hg/g Creatinine
<i>Iron-EDTA; Fe-EDTA</i>	
Denmark	TWA: 1 mg/m ³
Finland	TWA: 1 mg/m ³
Portugal	TWA: 1 mg/m ³
Spain OEL - Time Weighted Average (TWA):	TWA: 1 mg/m ³
Switzerland	TWA: 1 mg/m ³
<i>Manganese-EDTA, Mn-EDTA</i>	
Czech Republic OEL	1 mg/m ³ TWA
Ireland	TWA: 0.2 mg/m ³
<i>Boric Acid; H3BO3</i>	
Belgium - 8 Hr TWA	2 mg/m ³ TWA borate
Bulgaria - Occupational Exposure Limits - TWAs	5.0 mg/m ³ TWA (as B, listed under Boron and its inorganic compounds)
German mak	TWA: 10 mg/m ³ Ceiling / Peak: 10 mg/m ³ TWA: 0.5 mg/m ³
Latvia - Occupational Exposure Limits - TWAs	10 mg/m ³ TWA
Portugal	STEL: 6 mg/m ³ TWA: 2 mg/m ³
Spain OEL - Time Weighted Average (TWA):	STEL: 6 mg/m ³ TWA: 2 mg/m ³
Switzerland	STEL: 10 mg/m ³ TWA: 10 mg/m ³
<i>Copper-EDTA; Cu-EDTA</i>	
Austria	STEL 4 mg/m ³ STEL 0.4 mg/m ³ TWA: 1 mg/m ³ TWA: 0.1 mg/m ³
Finland	TWA: 1 mg/m ³
<i>Sodium molybdate; Na2MoO4+2H2O</i>	
Austria	STEL 10 mg/m ³ TWA: 5 mg/m ³
Czech Republic OEL	5 mg/m ³ TWA
Denmark	TWA: 5 mg/m ³
Finland	TWA: 0.5 mg/m ³
France - Occupational Exposure Limits - 8 Hour VMEs	TWA: 5 mg/m ³ STEL: 10 mg/m ³
Ireland	TWA: 10 mg/m ³ TWA: 0.5 mg/m ³
Norway	TWA: 5 mg/m ³ STEL: 10 mg/m ³
Poland	STEL: 10 mg/m ³ TWA: 4 mg/m ³
Portugal	TWA: 0.5 mg/m ³
Spain OEL - Time Weighted Average (TWA):	TWA: 0.5 mg/m ³
Sweden - OEL - 8 Hour	5 mg/m ³ LLV
Switzerland	TWA: 5 mg/m ³
UK oes/mel:	TWA: 5 mg/m ³

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
 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

Physical State:	Solid
Appearance:	powder
Color:	Off-white.
Odor:	Not significant
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):	Non-flammable
Vapor Pressure:	Solid, not applicable
Vapor Density:	Solid, not applicable
Specific Gravity:	no data available
Water Solubility:	Soluble in water
Solubility(ies)	no data available
Partition Coefficient:	Solid, not applicable
Autoignition Temperature:	not applicable
Decomposition Temperature:	no data available
Explosive Properties:	Doesn't present explosion hazard. Based on data of ingredients.
Oxidizing Properties:	May intensify fire; oxidizer.

9.2. Other information

Bulk density: 800 - 1100 kg/m³

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.

10.6. Hazardous decomposition products

None under normal processing.

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute Toxicity

Product Information:

Inhalation: May cause irritation of respiratory tract.

Eye Contact: May cause irritation.
Skin Contact: May cause irritation.
Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Unknown Acute Toxicity: 0% of the mixture consists of ingredient(s) of unknown toxicity.

Component Information:

Ingredients	LD50 Oral	LD50 Dermal	LC50 Inhalation
Potassium Nitrate; KNO ₃	= 3015 mg/kg (Rat)	> 2000 mg/kg	> 527 mg/m ³
Boric Acid; H ₃ BO ₃	= 2660 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 0.16 mg/L (Rat) 4 h
Zinc-EDTA; Zn-EDTA	= 1750 mg/kg (Rat)		
Sodium molybdate; Na ₂ MoO ₄ +2H ₂ O	= 4233 mg/kg (Rat)	> 2000 mg/kg (Rat)	> 2080 mg/m ³ (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; H ₃ BO ₃	Reproductive Toxicity - Repr. 1B: H360FD May damage fertility. May damage the unborn child. (C >= 5.5 %)

Teratogenicity

No data available.

STOT - Single Exposure

No known effects under normal use conditions.

STOT - Repeated Exposure

None under normal use conditions.

Aspiration Hazard

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
Urea		16200 - 18300: 96 h Poecilia reticulata mg/L LC50	3910: 48 h Daphnia magna mg/L EC50 Static
Boric Acid; H ₃ BO ₃			115 - 153: 48 h Daphnia magna mg/L EC50

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

Ingredients	LOGPOW
Urea	-1.59
Boric Acid; H ₃ BO ₃	-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

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

14.5

Marine Pollutant:

not applicable

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)

14.3

Hazard Class:

5.1

14.4

Packing group:

PG III

14.5

Environmental Hazard

Not regulated

14.6

Special Provisions

274

Tunnel restriction code

E

IATA

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

14.5

Environmental Hazard

Not regulated

14.6

Special Provisions

A3



Section 15: REGULATORY INFORMATION

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

National regulations

France

ICPE (FR):

Classified installation: article 1230

Belgium

Germany

Gefahrstoffverordnung (Germany) TRGS 511

C III

LGK (Germany)

5.1B

Water Endangering Class (WGK):

1 (Everris classification)

Component	German WGK Section
Potassium Nitrate; KNO ₃ 7757-79-1 (65 - 80%)	class 1
Urea 57-13-6 (10 - 25%)	class 1
Iron EDTA; Fe-EDTA 15708-41-5 (1 - 5%)	class 2
Boric Acid; H ₃ BO ₃ 10043-35-3 (0.1 - 1%)	class 1
Sodium molybdate; Na ₂ MoO ₄ ·2H ₂ 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

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

H360FD - May damage fertility. May damage the unborn child

H302 - Harmful if swallowed

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

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End of Safety Data Sheet