

Finnish Food Safety Authority

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18.03.2016

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1. -----IND- 2015 0618 FIN EN- ----- 20151127 --- --- PROJET

FINNISH FOOD SAFETY AUTHORITY REGULATION REGARDING ADDITIONS AND AMENDMENTS TO THE NATIONAL TYPE DESIGNATION LIST OF FERTILISER PRODUCTS

Pursuant to § 6(1) of the Fertiliser Product Act (539/2006), only fertiliser products whose type designation is included either in the national type designation list of fertiliser products or, in the case of EC fertilisers, the type designation list of EC fertilisers published as an Annex to the Fertiliser Regulation may be imported, placed on the market or manufactured for placing on the market.

Pursuant to § 7(1) of the Fertiliser Product Act, the inclusion of a new type designation of a fertiliser product in the national type designation list of fertiliser products or type designation list of EC fertilisers is applied for from the Finnish Food Safety Authority. Pursuant to § 7(2) of the Act, the Finnish Food Safety Authority decides on the approval of a type designation to the national type designation list of fertiliser products and on changing and revoking such approval. Pursuant to § 7(3) of the Act, the Finnish Food Safety Authority keeps a national type designation list of fertiliser products.

The national type designation list of fertiliser products contains the information for each type designation group and type designation on the required manufacturing method, main raw materials, nutrients and how these are shown, form and solubility of nutrients as well as properties improving plant growth and structure or growing conditions. Current methods to be used by the supervision authorities in fertiliser product analyses are published on the Finnish Food Safety Authority website.

The addition of new type designations to the national type designation list of fertiliser products was in accordance with Regulation (EC) No 764/2008 of the European Parliament and of the Council laying down procedures relating to the application of certain national technical rules to products lawfully marketed in another Member State and repealing Decision No 3052/95/EC. The amended type designation list was notified in accordance with Directive 98/48/EC of the European Parliament and of the Council amending Directive 98/34/EC laying down a procedure for the provision of information in the field of technical standards and regulations.

The valid national fertiliser product type designation list is appended to this Regulation. As regards other than EU fertilisers, only fertiliser products whose type designation is included in the national type designation list of fertiliser products may be imported, placed on the market or manufactured for placing on the market.

This Administrative Regulation shall enter into force [day] [month] 201X.

Director-General

Matti Aho

Senior Inspector

Titta Suoniitty

NATIONAL TYPE DESIGNATION LIST OF FERTILISER PRODUCTS

Type designation groups and requirements specific to them are laid down in Annex I to Ministry of Agriculture and Forestry Decree 24/11. Minimum contents of secondary nutrients and micro-nutrients in fertiliser products as well as chelates, complexing agents and other organic matter permitted to be added to fertilisers are laid down in Annex II to Decree 24/11. Harmful substances, organisms and contaminants in fertiliser products are regulated in Annex IV to Decree 24/11. Possible restrictions of use are laid down in Ministry of Agriculture and Forestry Decree 24/11 and its amendments. Use of sewage sludge in agriculture and related restrictions is regulated in Ministry of Agriculture and Forestry Decrees 12/12 and 7/13. Said Decrees can be found at www.mmm.fi/fi/index/etusivu/maatalous/maataloustuotanto/siemenettaimiaineistot/lannoitevalmisteet/jakasvinsuojelu/lannoitevalmisteet.html or <http://www.evira.fi/portal/fi/kasvit/viljely+ja+tuotanto/lannoitevalmisteet/lainsaadanto/>

1 FERTILISERS

1A INORGANIC FERTILISERS

1A1 Inorganic straight primary nutrient fertilisers

No 1A1	Type designation/entry into force	Manufacturing methods and related requirements	Minimum concentration for nutrients or other properties	Information to be declared in the product description ¹⁾
1	Nitrogen fertiliser Decree of the Ministry of Agriculture and Forestry 09/08 Evira/6624/0733/2015	Product manufactured chemically or by mixing, containing ammonium nitrate and/or ammonium sulfate. Selenium as selenate may be added. The maximum nitrogen content in ammonium nitrate fertilisers calculated from ammonium nitrate is 27.9 per cent by weight.	3 % N	Total nitrogen (N) Nitrate nitrogen ¹⁾ Ammonium nitrogen ¹⁾ Secondary nutrients and micro-nutrients pursuant to Decree 24/11 Selenium (Se)
2	Phosphorous fertiliser containing apatite. Decree of the Ministry of Agriculture and Forestry 19/09	Technically manufactured product obtained by grinding and enriching a by-mineral produced in mining of apatite ore and which contains primarily tricalcium phosphate and calcium carbonate.	12 % P 30 % Ca Neutralising ability (Ca) 10 %	Water-soluble phosphorus (P) Phosphorus soluble in neutral ammonium citrate Phosphorus soluble in mineral acids Total calcium (Ca) Water-soluble calcium Neutralising ability (Ca) % Degree of fineness
3	Nitrogen fertiliser, nitrate-free	Product manufactured chemically or by mixing,	3 % N	Total nitrogen (N) Ammonium nitrogen ¹⁾ Urea

No 1A1	Type designation/entry into force	Manufacturing methods and related requirements	Minimum concentration for nutrients or other properties	Information to be declared in the product description ¹⁾
	Evira/6624/0733/2015	containing ammonium sulfate and/or urea and/or cyanamid nitrogen. Selenium as selenate may be added.		nitrogen ¹⁾ Cyanamid nitrogen ¹⁾ Secondary nutrients and micro-nutrients pursuant to Decree 24/11 Selenium (Se)

¹⁾ Different forms of nitrogen must be declared if their minimum content is at least 1.0 %

1A2 Inorganic compound primary nutrient fertilisers

No 1A2	Type designation/entry into force	Manufacturing methods and related requirements	Minimum concentration for nutrients or other properties	Information to be declared in the product description
1	NPK fertiliser (NPK, NP, NK or PK, itemised) Decree of the Ministry of Agriculture and Forestry 12/07	Product manufactured chemically or by mixing. Addition of selenium as selenate or of permitted organic substances. Must not contain Thomas slag, calcinated phosphate, aluminium calcium phosphate, partly dissolved rock phosphate or soft ground rock phosphate. The maximum nitrogen content in ammonium nitrate fertilisers calculated from ammonium nitrate is 27.9 per cent by weight.	Total minimum: 15 % N+P+K; 10 % N+P; N+K; P+K Each nutrient, referred to in type designation (NPK), 1 %	Total nitrogen (N) Nitrate nitrogen ¹⁾ Ammonium nitrogen ¹⁾ Urea nitrogen ¹⁾ Cyanamid nitrogen ¹⁾ Phosphorus soluble in neutral ammonium citrate and in water (P) Water-soluble phosphorus Water-soluble potassium (K) Selenium (Se)
2	NPK fertiliser containing soft, ground rock phosphate or NPK fertiliser containing partly dissolved rock phosphate (NPK, NP, NK or PK, to be itemised) Decree of the Ministry of Agriculture and Forestry 12/07	Product manufactured chemically or by mixing. Addition of selenium as selenate or of permitted organic substances. Must not contain Thomas slag, calcinated phosphate or aluminium calcium phosphate. The maximum nitrogen content in ammonium nitrate fertilisers calculated from ammonium nitrate is 27.9 per cent by weight.	Total minimum: 15 % N+P+K; 10 % N+P; N+K; P+K Each primary nutrient, referred to in type designation (NPK) 1 %	Total nitrogen (N) Nitrate nitrogen ¹⁾ Ammonium nitrogen ¹⁾ Urea nitrogen ¹⁾ Cyanamid nitrogen ¹⁾ Phosphorus only soluble in mineral acids (P) Phosphorus soluble in neutral ammonium citrate and in water Water-soluble phosphorus Water-soluble potassium (K) Selenium (Se)
3	NPK fertiliser, contains crotonylidene diurea, isobutylidene diurea or urea formaldehyde (NPK, NP, NK or	Product manufactured chemically or by mixing. Addition of selenium as selenate or of permitted organic substances.	Total minimum: 15 % N+P+K; 10 % N+P; N+K; P+K	Total nitrogen (N) Nitrate nitrogen ¹⁾ Ammonium nitrogen ¹⁾ Urea nitrogen ¹⁾ Nitrogen of crotonylidene diurea ²⁾ Nitrogen of

No 1A2	Type designation/entry into force	Manufacturing methods and related requirements	Minimum concentration for nutrients or other properties	Information to be declared in the product description
	PK, itemised; crotonylidene diurea, isobutylidene diurea or urea formaldehyde itemised) Decree of the Ministry of Agriculture and Forestry 12/07	Must not contain Thomas slag, calcinated phosphate, aluminium calcium phosphate, partly dissolved rock phosphate or rock phosphate. The maximum nitrogen content in ammonium nitrate fertilisers calculated from ammonium nitrate is 27.9 per cent by weight. A marking of delayed release may be used.	Each nutrient, referred to in type designation (NPK), 1 %	isobutyl dene diurea ²⁾ Nitrogen of urea formaldehyde Phosphorus soluble in neutral ammonium citrate and in water (P) Water-soluble phosphorus Water-soluble potassium (K) Selenium (Se)
4	Liming NPK fertiliser (NPK, NP, NK, PK, itemised) Decree of the Ministry of Agriculture and Forestry 12/07	Product manufactured chemically or mechanically, also containing liming material in addition to fertiliser. The maximum nitrogen content in ammonium nitrate fertilisers calculated from ammonium nitrate is 27.9 per cent by weight.	Total minimum: 7 % N+P+K; 4 % N+P; N+K; P+K Each nutrient, referred to in type designation (NPK), 1 % Neutralising ability 10 % (Ca)	Total nitrogen (N) Nitrate nitrogen ¹⁾ Ammonium nitrogen ¹⁾ Urea nitrogen ¹⁾ Cyanamid nitrogen ¹⁾ Phosphorus soluble in neutral ammonium citrate and in water (P) Water-soluble phosphorus Water-soluble potassium (K) Neutralising ability % (Ca)
5	NPK plant nutrient (NPK, NP, NK, PK, itemised) Decree of the Ministry of Agriculture and Forestry 12/07	Product manufactured chemically or mechanically.	Total minimum: 7 % N+P+K; 4 % N+P; N+K; P+K Each nutrient, referred to in type designation (NPK), 1 %	Total nitrogen (N) Nitrate nitrogen ¹⁾ Ammonium nitrogen ¹⁾ Urea nitrogen ¹⁾ Cyanamid nitrogen ¹⁾ Phosphorus soluble in neutral ammonium citrate and in water (P) Water-soluble phosphorus Water-soluble potassium (K)
6	NPK plant nutrient solution (NPK, NP, NK, KP, itemised) Decree of the Ministry of Agriculture and Forestry 12/07	Product produced chemically and by dissolving in water, remaining stable regardless of changes in air pressure. The maximum biuret content: urea-N × 0.026. If the biuret content is under 0.2 %, a word "low-biuretic" may be added to the labelling.	Total minimum: 10 % N+P+K; 7 % N+P; N+K; P+K Each nutrient, referred to in type designation (NPK), 1 %	Total nitrogen (N) Nitrate nitrogen ¹⁾ Ammonium nitrogen ¹⁾ Urea nitrogen ¹⁾ Water-soluble phosphorus (P) Water-soluble potassium (K)
7	NPK plant nutrient suspension (NPK, NP, NK, KP, itemised) Decree of the Ministry of Agriculture and Forestry 12/07	Product in liquid form with its nutrients originating from both an aqueous solution and suspension. Fertilisers must not contain Thomas slag, aluminium calcium phosphate, calcinated phosphates, partly dissolved phosphates or rock	Total minimum: 12 % N+P+K; 8 % N+P; N+K; P+K Each nutrient, referred to in type designation (NPK), 1 %	Total nitrogen (N) Nitrate nitrogen ¹⁾ Ammonium nitrogen ¹⁾ Urea nitrogen ¹⁾ Phosphorus soluble in neutral ammonium citrate and in water (P) Water-soluble phosphorus

No 1A2	Type designation/entry into force	Manufacturing methods and related requirements	Minimum concentration for nutrients or other properties	Information to be declared in the product description
		phosphates. The maximum biuret content: urea-N × 0.026. If the biuret content is under 0.2 %, a word “low-biuretic” may be added to the labelling.		Water-soluble potassium (K)

¹⁾ Different forms of nitrogen must be declared if their minimum content is at least 1.0 %

²⁾ If needed

1A3 Inorganic secondary nutrient fertilisers

No 1A3	Type designation/entry into force	Manufacturing methods and related requirements	Minimum concentration for nutrients	Information to be declared in the product description
1	Secondary nutrient fertiliser Decree of the Ministry of Agriculture and Forestry 09/08 Decree of the Ministry of Agriculture and Forestry 24/11	Solid product manufactured chemically or mechanically, containing one or more secondary nutrients.	Point 1A3 of Annex I to Decree of the Ministry of Agriculture and Forestry 24/11 Inorganic secondary nutrient fertilisers	Point 1A3 of Annex I to Decree of the Ministry of Agriculture and Forestry 24/11 Inorganic secondary nutrient fertilisers
2	Secondary nutrient solution Evira/3122/0733/2013	Product produced chemically and by dissolving in water.	Point 1A3 of Annex I to Decree of the Ministry of Agriculture and Forestry Inorganic secondary nutrient fertilisers	Point 1A3, Inorganic secondary nutrient fertilisers, of Annex I to Decree of the Ministry of Agriculture and Forestry

IA4 Inorganic micro-nutrient fertilisers

No 1A4	Type designation/entry into force	Manufacturing methods and related requirements	Minimum concentration for nutrients	Information to be declared in the product description
1	Micro-nutrient fertiliser Decree of the Ministry of Agriculture and Forestry 09/08 Decree of the Ministry of Agriculture and Forestry 24/11	Solid product manufactured chemically or by mixing.	Point 1A4 of Annex I to Decree of the Ministry of Agriculture and Forestry 24/11 Inorganic micro-nutrient fertilisers	Point 1A4, Inorganic micro-nutrient fertilisers, of Annex I to Decree of the Ministry of Agriculture and Forestry 24/11
2	Micro-nutrient solution	Product in liquid form with its nutrients originating	Point 1A4 of Annex I to Decree	Point 1A4, Inorganic micro-nutrient fertilisers,

No 1A4	Type designation/entry into force	Manufacturing methods and related requirements	Minimum concentration for nutrients	Information to be declared in the product description
	Decree of the Ministry of Agriculture and Forestry 09/08 Decree of the Ministry of Agriculture and Forestry 24/11	from both an aqueous solution and suspension.	of the Ministry of Agriculture and Forestry 24/11 Inorganic micro-nutrient fertilisers	of Annex I to Decree of the Ministry of Agriculture and Forestry 24/11

1A5 Inorganic fertilisers whose performance is mainly based on effects other than plant nutrients

No 1A5	Type designation/entry into force	Manufacturing methods and related requirements	Minimum content of essential components	Information to be declared in the product description
1	Silicon fertiliser Decree of the Ministry of Agriculture and Forestry 12/07	Product manufactured chemically or mechanically. Contains silicon in a form usable by plants, and also possibly nutrients.	Si 5 %	Silicon Primary nutrients are declared if their minimum content is 1 %
2	Liquid silicon fertiliser Decree of the Ministry of Agriculture and Forestry 12/07	Product produced chemically and by dissolving in water, remaining stable regardless of changes in air pressure. Contains silicon (Si) in a form usable by plants, and also possibly nutrients.	Si 3 %	Silicon Primary nutrients are declared if their minimum content is 1 %

1A6 By-products used as inorganic fertilisers as such

No 1A6	Type designation/entry into force	Manufacturing methods and related requirements	Minimum content of essential components	Information to be declared in the product description
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1A7 Ash fertilisers

No 1A7	Type designation/entry into force	Manufacturing methods and related requirements	Minimum content of essential components	Information to be declared in the product description
1	Ash from wood or peat Decree of the Ministry of Agriculture and Forestry 12/07 Decree of the Ministry of	Ash from wood, peat or field biomass. Restrictions of use of boron-containing fertilisers in forestry in accordance with Decree of the Ministry of Agriculture and Forestry 24/11.	2 % P+K 6 % Ca Other than for use in forestry Neutralising ability 10 % (Ca)	Total phosphorus (P) Total Potassium (K) Total calcium (Ca) Neutralising ability (Ca) % Moisture % Concentrations of harmful metals Raw materials

No 1A7	Type designation/entry into force	Manufacturing methods and related requirements	Minimum content of essential components	Information to be declared in the product description
	Agriculture and Forestry 19/09 Decree of the Ministry of Agriculture and Forestry 24/11			
2	Ash of animal origin Decree of the Ministry of Agriculture and Forestry 19/09	The ash is created as a by-product when farm animal manure is incinerated in a waste incinerator in accordance with Government Decree (362/2003).	5 % P+K	Total phosphorus (P) Water-soluble phosphorus (P) Total Potassium (K) Total calcium (Ca) Neutralising ability (Ca) % Moisture % Concentrations of harmful metals Raw materials

1B1 Organic fertilisers of animal origin

No 1B1	Type designation/entry into force	Manufacturing methods and related requirements	Minimum concentration for nutrients and other properties	Information to be declared in the product description
1	Organic fertilisers of animal origin (NPK, NP, NK, PK, N, P or K itemised) Decree of the Ministry of Agriculture and Forestry 12/07 Decree of the Ministry of Agriculture and Forestry 12/12	Product manufactured or derived by technical processing or mechanical mixing, containing bone meal, processed animal protein, technically processed manure and other raw materials of animal origin. Processed in an establishment approved in accordance with requirements laid down in Regulation (EC) No 1069/2009. Restrictions of use in accordance with Commission Regulation (EU) No 142/2011. Pursuant to the requirements of the Act on Animal By-Products 517/2015 and Ministry of Agriculture and Forestry Decree 12/12, an ingredient preventing the product's use as animal feed shall be added to packages of fertiliser containing bone meal and/or processed animal proteins and weighing more than 50 kg.	5 % (N+P+K) or 4 % (N+P, N+K or P+K) 3 % (N, P or K-fertiliser)	Nitrogen (N) Water-soluble Nitrogen (P) Water-soluble phosphorus Potassium (K) Moisture Organic matter
2	Technically processed manure (NPK, NP, NK, PK, N, P or K itemised)	Pure manure product manufactured by technical processing in an establishment approved in accordance with requirements laid down in Regulation (EC) No 1069/2009.	5 % (N+ P+K) or 3 % (N+P, N+K, P+K) 3 % (N, P or K) In compound fertilisers, each nutrient, referred	Total nitrogen (N) Water-soluble nitrogen Total phosphorus (P) Water-soluble phosphorus Total potassium (K) Moisture Organic matter

No 1B1	Type designation/entry into force	Manufacturing methods and related requirements	Minimum concentration for nutrients and other properties	Information to be declared in the product description
	Decree of the Ministry of Agriculture and Forestry 12/07		to in type designation (NPK) 1 % Water-soluble nitrogen 1 % in fertilisers containing nitrogen	Animal species stated in raw materials
3	Horn chips Decree of the Ministry of Agriculture and Forestry 12/07 Decree of the Ministry of Agriculture and Forestry 24/11	Horn material which was processed in an establishment approved in accordance with requirements laid down in Regulation (EC) No 1069/2009. Restrictions of use in accordance with Commission Regulation (EU) No 142/2011.	10 % N 2 % P	Total nitrogen (N) Water-soluble nitrogen Total phosphorus (P) Water-soluble phosphorus Organic matter
4	Blood meal Decree of the Ministry of Agriculture and Forestry 12/07 Decree of the Ministry of Agriculture and Forestry 24/11	Blood which was processed in an establishment approved in accordance with requirements laid down in Regulation (EC) No 1069/2009. Restrictions of use in accordance with Commission Regulation (EU) No 142/2011.	10 % N	Total nitrogen (N) Water-soluble nitrogen Moisture Organic matter
5	Feather meal Decree of the Ministry of Agriculture and Forestry 12/07 Decree of the Ministry of Agriculture and Forestry 24/11	Feathers and plumes of farm animals processed in an establishment approved in accordance with requirements laid down in Regulation (EC) No 1069/2009. Restrictions of use in accordance with Commission Regulation (EU) No 142/2011.	5 % N	Total nitrogen (N) Water-soluble nitrogen Moisture Organic matter
6	Organic liquid fertiliser of animal origin (NPK, NP, NK or PK or N, P, K itemised) Decree of the Ministry of Agriculture and Forestry 12/07	Solution or suspension manufactured chemically or by mixing, containing organic matter of animal origin. Must not contain inorganic fertiliser products. Processed in an establishment approved in accordance with requirements laid down in Regulation (EC) No 1069/2009. Restrictions of use in accordance with Commission Regulation (EU) No 142/2011.	Each nutrient, referred to in type designation (NPK), 1 %	Total nitrogen (N) Total phosphorus (P) Total potassium (K) Concentration of dry substances

1B2 Organic fertilisers of non-animal origin

No 1B2	Type designation/entry into force	Manufacturing methods and related requirements	Minimum concentration for nutrients and other properties	Information to be declared in the product description
1	Organic fertiliser (NPK, NP, NK, PK, N, P or K itemised) Decree of the Ministry of Agriculture and Forestry 12/07	Product, manufactured technically, chemically or by mixing, where the organic matter it contains is of plant origin.	5 % (N+P+K) or 4 % (N+P, N+K, P+K) 3 % (N, P or K) Each nutrient, referred to in type designation (NPK), 1 %. Water-soluble nitrogen 1 % in fertilisers containing nitrogen	Total nitrogen (N) Water-soluble nitrogen Total phosphorus (P) Water-soluble phosphorus Total potassium (K) Moisture
2	Fungal biomass (NP) Decree of the Ministry of Agriculture and Forestry 12/07	Product, manufactured technically or by mixing, mainly of fungal or yeast biomass.	5 % N 1 % Water-soluble nitrogen 1 % P	Total nitrogen (N) Water-soluble nitrogen Total phosphorus (P) Water-soluble phosphorus Organic carbon or organic matter Origin of raw materials
3	Bacterial biomass (NP) Decree of the Ministry of Agriculture and Forestry 12/07	Product manufactured mainly of bacterial biomass.	5 % N 1 % Water-soluble nitrogen 1 % P	Total nitrogen (N) Water-soluble nitrogen Total phosphorus (P) Water-soluble phosphorus Organic carbon or organic matter Origin of raw materials
4	Organic fertiliser solution (NPK, NP, NK or PK or N, P, K, itemised) Decree of the Ministry of Agriculture and Forestry 12/07	Product, produced chemically or by mixing with water, containing only organic matter of plant origin.	Each nutrient, referred to in type designation (NPK), 1 %	Total nitrogen (N) Total phosphorus (P) Total potassium (K) Concentration of dry substances

1B3 Organic fertilisers whose performance is mainly based on effects other than plant nutrients

No 1B3	Type designation/entry into force	Manufacturing methods and related requirements	Minimum concentration for nutrients and other properties	Information to be declared in the product description
1	Seaweed meal Decree of the Ministry of Agriculture and Forestry 12/07	Product manufactured of seaweed by drying and grinding, containing active ingredients of betaine, cytoquinine and also small amounts of nutrients.		Nutrients Moisture Raw materials
2	Seaweed extract	Suspension manufactured of seaweed meal or of seaweed by extracting, containing active		Nutrients Concentration of dry substances

No 1B3	Type designation/entry into force	Manufacturing methods and related requirements	Minimum concentration for nutrients and other properties	Information to be declared in the product description
	Decree of the Ministry of Agriculture and Forestry 12/07	ingredients of betaine, cytoquinine and also small amounts of nutrients.		Raw materials
3	Betaine Decree of the Ministry of Agriculture and Forestry 12/07	Glycine betaine, separated from sugar beet or its derivative.	Betaine content 90 %	Betaine content % Total nitrogen (N) Moisture
4	Humus product or humus extract Decree of the Ministry of Agriculture and Forestry 12/07	Product containing organic soil, manufactured by extracting chemically and which can be either solid or liquid.	Humic acid content of the extract 10 % Fulvic acid content of the extract 3 % Ignition loss of the solid product 90 % of dry matter.	Primary nutrients Humic acids % Fulvic acids % Extract pH Conductivity mS/m Moisture or dry matter content Raw materials, origin
5	Aqueous solutions or emulsion fluids of alcohols Decree of the Ministry of Agriculture and Forestry 19/09	A product containing aliphatic alcohols and possibly small quantities of nutrients, and which is obtained by mixing mechanically in water or rapeseed oil.	Ethanol 49 p-%	Ethanol content Raw materials
6	Plant extract Evira/2203/0733/2009	Product, produced chemically or by mixing with water, containing only small quantities of nutrients of plant origin. The product has been stabilised.		Primary nutrients if their minimum content is 0.3 % Secondary nutrients and micro-nutrients pursuant to Annex II to Decree 24/11 Concentration of dry substances Raw materials Stabilisation method/ substance
7	Amino acid product Evira/4167/0733/2012	The product is manufactured from protein material of plant or animal origin by hydrolysis to break up the proteins into amino acids. Contains small amounts of nutrients. The product has been stabilised. Material of animal origin must be processed in an establishment approved in accordance with requirements laid down in Regulation (EC) No 1069/2009. Restrictions of use in accordance with Commission Regulation (EU) No 142/2011.		Point 1B3 of Annex I to Decree of the Ministry of Agriculture and Forestry 24/11 Secondary nutrients and micro-nutrients pursuant to Annex II to Decree 24/11 Concentration of dry substances Amino acid composition Raw materials Stabilisation method/substance

1B4 By-products used as organic fertilisers as such

No 1B4	Type designation/entry into force	Manufacturing methods and related requirements	Minimum concentration for nutrients and other properties	Information to be declared in the product description
1	Molasses extract (NK) Decree of the Ministry of Agriculture and Forestry 12/07	By-product of sugar beet industry	2 % N 2 % K	Total nitrogen (N) Soluble nitrogen Total potassium (K) Concentration of dry substances
2	Vinasse and vinasse extract (NK or K) Decree of the Ministry of Agriculture and Forestry 12/07	By-product of sugar and ferment industry	2 % K	Total nitrogen (N) Soluble nitrogen (N) Total potassium (K) Concentration of dry substances
3	Potato cell sap Decree of the Ministry of Agriculture and Forestry 12/07 Decree of the Ministry of Agriculture and Forestry 09/08 Decree of the Ministry of Agriculture and Forestry 24/11	By-product of potato industry, formed during the starch and cooking process. Must not contain potato peel or soil. Cell sap generated by other processes must be hygienised with validated methods (e.g. by heating at 70 °C for 60 min.). Warnings regarding susceptibility to contamination (minimum life 12 months), production time and also restrictions on spreading set out in the Nitrate Directive and in other environmental legislation must be declared in the product description.	0.8 % N+P+K	Total nitrogen (N) Water-soluble ammonium and nitrate nitrogen Total phosphorus (P) Total potassium (K) Concentration of dry substances Organic carbon or organic matter
4	Wastewater Decree of the Ministry of Agriculture and Forestry 12/07 Decree of the Ministry of Agriculture and Forestry 19/09 Decree of the Ministry of Agriculture and Forestry 24/11	A liquid by-product separated from a suspended solid at an approved biogas facility that rots raw materials only for use in organic fertiliser products. Product description must state the restrictions of use possibly due to raw materials, warnings regarding susceptibility to contamination (minimum life 12 months), production time and restrictions on spreading set out in the Nitrate Directive and in other environmental legislation.	Total 1 % NPK	Total nitrogen (N) Total phosphorus (P) Total potassium (K) Concentration of dry substances Organic carbon or organic matter

1C ORGANIC MINERAL FERTILISERS**1C1 Organic compound mineral fertilisers**

No 1C1	Type designation/entry into force	Manufacturing methods and related requirements	Minimum concentration for nutrients and other properties	Information to be declared in the product description
1	Organic mineral fertilisers of animal origin (NPK, NP, NK or PK itemised) Decree of the Ministry of Agriculture and Forestry 12/07 Decree of the Ministry of Agriculture and Forestry 24/11	Mechanical mixtures of organic fertilisers and inorganic fertilisers containing organic fertilisers of animal origin. Material of animal origin must be processed in an establishment approved in accordance with requirements laid down in Regulation (EC) No 1069/2009. Restrictions of use in accordance with Commission Regulation (EU) No 142/2011.	Ministry of Agriculture and Forestry Decree 24/11, Annex I, 1C1 Organic compound mineral fertilisers	Total nitrogen (N) Water-soluble nitrogen Total phosphorus (P) Water-soluble phosphorus Phosphorus soluble in neutral ammonium citrate and in water may be declared Total potassium (K) Moisture Raw materials and added materials
2	Organic mineral fertiliser (NPK, NP, NK or PK, itemised) Decree of the Ministry of Agriculture and Forestry 12/07 Decree of the Ministry of Agriculture and Forestry 24/11	Mechanical mixtures of organic fertilisers and inorganic fertilisers. They do not contain raw materials of animal origin.	Ministry of Agriculture and Forestry Decree 24/11, Annex I, 1C1 Organic compound mineral fertilisers. Water-soluble nitrogen in fertilisers containing nitrogen 1 %	Total nitrogen (N) Water-soluble nitrogen Total phosphorus (P) Water-soluble phosphorus Phosphorus soluble in neutral ammonium citrate and in water may be declared Total potassium (K) Moisture Organic carbon or organic matter Raw materials and added materials
3	Organic mineral fertiliser liquid (NPK, NP, NK or PK, itemised) Decree of the Ministry of Agriculture and Forestry 12/07 Decree of the Ministry of Agriculture and Forestry 24/11	Solution manufactured by mixing organic and inorganic fertilisers. They do not contain raw materials of animal origin.	Ministry of Agriculture and Forestry Decree 24/11, Annex I, 1C1 Organic compound mineral fertilisers.	Total nitrogen (N) Total phosphorus (P) Total potassium (K) Concentration of dry substances Raw materials and added materials
4	Organic mineral fertiliser liquid of animal origin (NPK, NP, NK or PK, itemised) Decree of the Ministry of Agriculture and Forestry 12/07 Decree of the Ministry of Agriculture and Forestry 24/11	Solution manufactured by mixing organic and inorganic fertilisers. Contains raw materials of animal origin. Material of animal origin must be processed in an establishment approved in accordance with requirements laid down in Regulation (EC) No 1069/2009. Restrictions of use in accordance with Commission Regulation (EU) No 142/2011.	Ministry of Agriculture and Forestry Decree 24/11, Annex I, 1C1 Organic compound mineral fertilisers.	Total nitrogen (N) Total phosphorus (P) Total potassium (K) Concentration of dry substances Raw materials and added materials

1C2 Inorganic compound fertilisers containing organic matter

No 1C2	Type designation	Manufacturing methods and related requirements	Minimum concentration for nutrients and other properties	Information to be declared in the product description
1	Inorganic compound fertiliser containing organic matter. Evira/1142/0733/2012	Mechanical mixtures of organic fertilisers and inorganic fertilisers which do not contain material of animal origin.	Point 1C2 of Annex I to Decree of the Ministry of Agriculture and Forestry 24/11 Inorganic compound fertilisers containing organic matter Total organic matter (C %) 1.0–10.0 % of the fertiliser's dry weight.	Total nitrogen (N) Water-soluble nitrogen Total phosphorus (P) Water-soluble phosphorus Total potassium (K) Moisture Organic carbon Raw materials and added materials
2	Inorganic compound solution containing organic matter. Evira/5317/0733/2012	Product is manufactured by mechanically mixing inorganic and soluble organic fertilisers of plant or animal origin. Material of animal origin must be processed in an establishment approved in accordance with requirements laid down in Regulation (EC) No 1069/2009. Restrictions of use in accordance with Commission Regulation (EU) No 142/2011.	Point 1C2 of Annex I to Decree of the Ministry of Agriculture and Forestry 24/11 Inorganic compound fertilisers containing organic matter Micro-nutrients, Annex II to Decree 24/11 Total organic matter (C %) 1.0–10.0 % of the fertiliser's total weight.	Total nitrogen (N) Total phosphorus (P) Total potassium (K) Organic carbon The amino acid composition may be declared. Raw materials and added materials

1C3 Liming organic mineral fertilisers

No 1C3	Type designation	Manufacturing methods and related requirements	Minimum concentration for nutrients and other properties	Information to be declared in the product description
1	Liming mineral fertiliser of animal origin (NPK, NP or NK, itemised) Decree of the Ministry of Agriculture and Forestry 12/07 Decree of the Ministry of Agriculture and Forestry 24/11	Mixture of organic fertilisers of animal origin and liming material. Material of animal origin must be processed in an establishment approved in accordance with requirements laid down in Regulation (EC) No 1069/2009. Restrictions of use in accordance with Commission Regulation (EU) No 142/2011.	Point 1C3 of Annex I to Decree of the Ministry of Agriculture and Forestry 24/11 Liming organic mineral fertilisers. Water-soluble nitrogen % in fertilisers containing nitrogen 1 % or total nitrogen 4 %	Total nitrogen (N) Water-soluble nitrogen Total phosphorus (P) Water-soluble phosphorus Total potassium (K) Moisture Organic matter or organic carbon Neutralising ability (Ca) Raw materials and added materials
2	Organic liming mineral fertiliser	Mechanical mixtures of organic fertilisers and liming	Decree 24/11, Annex I, 1C3	Total nitrogen (N) Water-soluble nitrogen

No 1C3	Type designation	Manufacturing methods and related requirements	Minimum concentration for nutrients and other properties	Information to be declared in the product description
	(NPK, NP, NK or PK, itemised) Decree of the Ministry of Agriculture and Forestry 12/07 Decree of the Ministry of Agriculture and Forestry 24/11	materials fertilisers. They do not contain raw materials of animal origin.	Liming organic mineral fertilisers Water-soluble nitrogen % in fertilisers containing nitrogen 1 %	Total phosphorus (P) Water-soluble phosphorus Total potassium (K) Moisture Organic carbon or organic matter Neutralising ability (Ca) Raw materials and added materials

2 LIMING MATERIALS

2A1 Limestone and other liming materials

No 2A1	Type designation/entry into force	Manufacturing methods and related requirements	Minimum concentration for nutrients and other properties	Information to be declared in the product description
1	Dolomite limestone Decree of the Ministry of Agriculture and Forestry 12/07	Contains at least 7 % of Mg	Neutralising ability 30 % (Ca)	Neutralising ability Fast-acting neutralising ability Calcium (Ca) Magnesium (Mg) Degree of fineness Moisture Concentrations of harmful metals Phosphorus soluble in neutral ammonium citrate and in water
2	Lime granules containing ash Decree of the Ministry of Agriculture and Forestry 12/07	Granulated mixture of ash fertiliser and another by-product used as liming material as such	Neutralising ability 15 % (Ca)	Neutralising ability Calcium (Ca) Degree of fineness Moisture Concentrations of harmful metals Phosphorus soluble in neutral ammonium citrate and in water
3	Biotite Decree of the Ministry of Agriculture and Forestry 12/07	Product manufactured technically from a by-mineral produced in mining of apatite ore	Neutralising ability 10 % (Ca)	Neutralising ability Calcium (Ca) Magnesium (Mg) Potassium (K) Degree of fineness Moisture Concentrations of harmful metals Phosphorus soluble in neutral ammonium citrate and in water
4	Mixture of liming material and another by-product used as liming material as such Decree of the Ministry of Agriculture and Forestry 19/09 Evira/9060/0733/2012	The product is a mechanical mixture of liming material (2A1) and another by-product used as liming material as such (2A2). The amount of the by-product used as liming material (2A2) in the mixture must not exceed 40 % of the total weight.	Neutralising ability 30 % (Ca)	Neutralising ability Calcium (Ca) Magnesium (Mg) Potassium (K) Phosphorus soluble in neutral ammonium citrate and in water (P) Degree of fineness Moisture Concentrations of harmful metals Raw materials and their mixture ratios

2A2 By-products used as liming material as such

No 2A2	Type designation/entry into force	Manufacturing methods and related requirements	Minimum concentration for nutrients and other properties	Information to be declared in the product description
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No 2A2	Type designation/entry into force	Manufacturing methods and related requirements	Minimum concentration for nutrients and other properties	Information to be declared in the product description
1	Blast furnace slag Decree of the Ministry of Agriculture and Forestry 12/07	Product obtained from metallurgical processes mainly containing calcium and magnesium silicates. Designation "containing magnesium" may be used if the minimum Mg content is 2 %.	Neutralising ability 25 % (Ca)	Neutralising ability Calcium (Ca) Magnesium (Mg) Degree of fineness Moisture Concentrations of harmful metals Phosphorus soluble in neutral ammonium citrate and in water
2	Steel slag Decree of the Ministry of Agriculture and Forestry 12/07	Product obtained from metallurgical processes mainly containing calcium and magnesium silicates. Designation "containing magnesium" may be used if the minimum Mg content is 2 %.	Neutralising ability 25 % (Ca)	Neutralising ability Calcium (Ca) Magnesium (Mg) Degree of fineness Moisture Concentrations of harmful metals Phosphorus soluble in neutral ammonium citrate and in water
3	Lime sludge Decree of the Ministry of Agriculture and Forestry 12/07	By-product produced in cellulose manufacturing	Neutralising ability 20 % (Ca)	Neutralising ability Degree of fineness Moisture Concentrations of harmful metals Phosphorus soluble in neutral ammonium citrate and in water
4	Limestone mixture Decree of the Ministry of Agriculture and Forestry 09/08	Mixture of limestone or dolomitic limestone and calcium oxide. Designation "containing magnesium" may be used if the minimum Mg content is 2 %	Neutralising ability 30 % (Ca)	Neutralising ability Fast-acting neutralising ability Calcium (Ca) Magnesium (Mg) Degree of fineness Moisture Concentrations of harmful metals Raw materials
5	Precipitation residue of PCC lime Decree of the Ministry of Agriculture and Forestry 12/07	Precipitated calcium carbonate	Neutralising ability 30 % (Ca)	Neutralising ability Calcium (Ca) Degree of fineness Moisture Concentrations of harmful metals Phosphorus soluble in neutral ammonium citrate and in water
6	Filter dust of lime kiln Decree of the Ministry of Agriculture and Forestry 12/07	Lime dust recovered from electric filters of lime kiln	Neutralising ability 35 % (Ca)	Neutralising ability Calcium (Ca) Degree of fineness Moisture Concentrations of harmful metals Phosphorus soluble in neutral ammonium citrate and in water
7	Lime slaking residue Decree of the Ministry of Agriculture and Forestry 12/07	By-product produced in connection with lime slaking	Neutralising ability 30 % (Ca)	Neutralising ability Calcium (Ca) Degree of fineness Moisture Concentrations of harmful metals Phosphorus soluble in neutral ammonium

No 2A2	Type designation/entry into force	Manufacturing methods and related requirements	Minimum concentration for nutrients and other properties	Information to be declared in the product description
				citrate and in water
8	Lime enrichment residue Decree of the Ministry of Agriculture and Forestry 12/07	By-product produced in connection with lime enrichment	Neutralising ability 10 % (Ca)	Neutralising ability Calcium (Ca) Degree of fineness Moisture Concentrations of harmful metals Phosphorus soluble in neutral ammonium citrate and in water
9	Calciferous rock material Decree of the Ministry of Agriculture and Forestry 12/07	Product obtained from stone working and concrete industry	Neutralising ability 10 % (Ca)	Neutralising ability Calcium (Ca) Degree of fineness Moisture Concentrations of harmful metals Phosphorus soluble in neutral ammonium citrate and in water
10	Sugar refinery slaking lime Decree of the Ministry of Agriculture and Forestry 09/08	Slaking lime is obtained by combining different precipitates that result from the different filtering stages of the sugar refining process	Neutralising ability 15 % (Ca)	Neutralising ability Fast-acting neutralising ability Calcium (Ca) Magnesium (Mg) Degree of fineness Moisture Concentrations of harmful metals Raw materials
11	Mixture of by-products used as liming material as such Decree of the Ministry of Agriculture and Forestry 09/08 Evira/9060/0733/2012	The product is a mechanical mixture of by-products used as liming material as such (2A2) to which liming material from group 2A1 can have been added.	Neutralising ability 20 % (Ca)	Neutralising ability Fast-acting neutralising ability Calcium (Ca) Magnesium (Mg) Potassium (K) Phosphorus soluble in neutral ammonium citrate and in water (P) Degree of fineness Moisture Concentrations of harmful metals Raw materials and their mixture ratios
12	Eggshell limestone Decree of the Ministry of Agriculture and Forestry 19/09 Evira/8043/0733/2013	Egg shells which were processed in an establishment approved in accordance with requirements laid down in Regulation (EC) No 1069/2009. Restrictions of use in accordance with Commission Regulation (EU) No 142/2011.	Neutralising ability 25 % (Ca)	Neutralising ability % (Ca) Fast-acting neutralising ability Total calcium (Ca) Degree of fineness Moisture
13	Carbide limestone Decree of the Ministry of Agriculture and Forestry 19/09	The product consists of limestone that is created in a reaction between calcium carbide and water.	Neutralising ability 25 % (Ca)	Neutralising ability % (Ca) Calcium (Ca) Degree of fineness Moisture Concentrations of harmful metals

3 SOIL CONDITIONERS

3A1 Soil improving peats

No 3A1	Type designation/entry into force	Manufacturing methods and related requirements	Minimum concentration for nutrients and other properties	Information to be declared in the product description
1	Soil improving peat Decree of the Ministry of Agriculture and Forestry 12/07	Peat with no fertiliser products added.	Amount of organic matter (loss on ignition) 50 % of dry material	pH Conductivity Volumetric weight Degree of coarseness
2	Limed soil improving peat Decree of the Ministry of Agriculture and Forestry 12/07	Peat with added liming material.	Amount of organic matter (loss on ignition) 40 % of dry matter	pH Conductivity Volumetric weight Degree of coarseness Added materials /m ³

3A2 Organic soil improvers

No 3A2	Type designation/entry into force	Manufacturing methods and related requirements	Minimum concentration for nutrients and other properties	Information to be declared in the product description
1	Soil improving compost Decree of the Ministry of Agriculture and Forestry 12/07	Product manufactured by composting or digesting and sufficiently post-composting from manure, sewage sludge, plant waste, food waste, organic waste in the food industry or any other similar material. Restrictions of use in accordance with Ministry of Agriculture and Forestry Decrees 24/11, 12/12 and 7/13. Material of animal origin must be processed in an establishment approved in accordance with requirements laid down in Regulation (EC) No 1069/2009. Restrictions of use in accordance with Commission Regulation (EU) No 142/2011.	Amount of organic matter (loss on ignition) 25 % of dry material Assessment criteria for maturity: Root-length index over 80 % NO ₃ -N/NH ₄ -N ratio over 1 CO ₂ production under 3 mg CO ₂ -C/g VS/day	Total nitrogen (N) Water-soluble type Different forms of nitrogen may be declared Total phosphorus (P) Water-soluble phosphorus Total potassium (K) pH Conductivity Moisture Organic matter Cation exchange capacity may be stated Concentrations of harmful metals Raw materials
2	Manure mixture Decree of the Ministry of	Product manufactured by composting, digesting or blending, only from manure of farm animals, bedding and materials.	Amount of organic matter (loss on ignition) 20 % of dry matter	Total nitrogen (N) Water-soluble nitrogen Total phosphorus (P) Water-soluble phosphorus Total potassium (K) pH

No 3A2	Type designation/entry into force	Manufacturing methods and related requirements	Minimum concentration for nutrients and other properties	Information to be declared in the product description
	Agriculture and Forestry 12/07 Decree of the Ministry of Agriculture and Forestry 24/11		In packaged products: CO ₂ production under 3 mg CO ₂ -C/g VS/day	Conductivity Moisture Organic matter Cation exchange capacity may be stated Cadmium (Cd) Raw materials (manure types to be listed)
3	Fresh compost Decree of the Ministry of Agriculture and Forestry 12/07	Product manufactured by composting or digesting and post-composting from manure, plant waste, sewage sludge, food waste, organic waste in food industry or any other similar material, which is sufficiently stable and hygienic. Restrictions of use in accordance with Ministry of Agriculture and Forestry Decrees 24/11, 12/12 and 7/13. Material of animal origin must be processed in an establishment approved in accordance with requirements laid down in Regulation (EC) No 1069/2009. Restrictions of use in accordance with Commission Regulation (EU) No 142/2011.	Amount of organic matter (loss on ignition) 25 % of dry material Stability: CO ₂ production under 6 mg CO ₂ -C/g VS/day	Total nitrogen (N) Water-soluble nitrogen Total phosphorus (P) Water-soluble phosphorus Total potassium (K) pH Conductivity Moisture Organic matter Cation exchange capacity may be stated Concentrations of harmful metals Raw materials
4	Compost of plant waste Decree of the Ministry of Agriculture and Forestry 12/07	Product manufactured by composting or technically processing from material of plant origin containing only a few nutrients but improving the structure and physical properties of soil. It may also boost the growth of the root system. No other fertiliser products or mineral substances have been added to the product. Restrictions of use in accordance with Ministry of Agriculture and Forestry Decree 24/11.	Amount of organic matter (loss on ignition) 30% of dry matter Assessment criteria for maturity: Root length index 100 % NO ₃ -N/NH ₄ -N ratio over 1 CO ₂ production under 2 mg CO ₂ -C/g VS/day	Raw materials Primary nutrients (NPK) may be declared Moisture Organic matter Fragment size
5	Dry granules or dry powder Decree of the Ministry of Agriculture and Forestry 12/07	Product manufactured by heat drying (e.g. 80 °C, 2 h), granulating or by any other similar approved heat processing from sewage sludge, digesting agent or from any other such organic matter with possibly added nutrients or substances assisting granulation during technical processing.	Maximum moisture content 10 %. If the moisture content is over 10 %, hygienisation must be validated in connection with the approval.	Total nitrogen (N) Water-soluble nitrogen Total phosphorus (P) Water-soluble phosphorus Total potassium (K) Moisture Organic matter Concentrations of harmful metals Raw materials and added materials

No 3A2	Type designation/entry into force	Manufacturing methods and related requirements	Minimum concentration for nutrients and other properties	Information to be declared in the product description
		Restrictions of use in accordance with Ministry of Agriculture and Forestry Decrees 24/11, 12/12 and 7/13.		
6	Acidified and stabilised sewage sludge Decree of the Ministry of Agriculture and Forestry 12/07	Chemically hydrolysed (acid and hydrogen peroxide processing) and hygienised, dried and stabilised sewage sludge. The stabilisation method must be validated in connection with the approval. The safety period is 2 years. Restrictions of use in accordance with Ministry of Agriculture and Forestry Decrees 24/11, 12/12 and 7/13.	Stability: CO ₂ production under 6 mg CO ₂ -C/g VS/day	Total nitrogen (N) Water-soluble nitrogen Total phosphorus (P) Water-soluble phosphorus Total potassium (K) pH Conductivity Moisture Organic matter Concentrations of harmful metals Raw materials
7	Soil improving decaying agent Decree of the Ministry of Agriculture and Forestry 12/07	Product manufactured from waste of plant origin in food industry by decaying thermophilicly (e.g. 55 °C, 14 days), aerobically and after that in a tank by stabilising. The stabilisation time must be validated in connection with the approval. For products based on sewage sludge the safety period is 2 years. Restrictions of use in accordance with Ministry of Agriculture and Forestry Decrees 24/11, 12/12 and 7/13.	Stability: CO ₂ production under 6 mg CO ₂ -C/g VS/day	Total nitrogen (N) Water-soluble nitrogen Total phosphorus (P) Water-soluble phosphorus Total potassium (K) pH Conductivity Moisture Organic matter Content of harmful metals in products based on sewage sludge Raw materials
8	Improved fibre suspension Evara/2315/0733/2010	Product manufactured by technical mixing of organic fertilisers to a fibre suspension (3A5/4) to which inorganic fertilisers or liming materials may have been added. Restrictions of use in accordance with Ministry of Agriculture and Forestry Decrees 24/11, 12/12 and 7/13.	Stability: CO ₂ production under 6 mg CO ₂ -C/g VS/day but when used for field and energy plants under 10 mg CO ₂ -C/g VS/day	Total nitrogen (N) Water-soluble nitrogen Total phosphorus (P) Water-soluble phosphorus Total potassium (K) pH Conductivity Moisture Organic matter Concentrations of harmful metals Raw materials
9	Aged sewage sludge Evara/7575/0733/2014	Sewage sludge hygienised by thermophilic or mesophilic digestion and ageing. The stabilisation and hygienising methods must be validated in	Stability: CO ₂ production under 6 mg CO ₂ -C/g VS/day -	Total nitrogen (N) Water-soluble nitrogen Total phosphorus (P) Water-soluble phosphorus Total potassium (K) pH

No 3A2	Type designation/entry into force	Manufacturing methods and related requirements	Minimum concentration for nutrients and other properties	Information to be declared in the product description
		<p>connection with the approval</p> <p>The safety period is 2 years.</p> <p>Restrictions of use in accordance with Ministry of Agriculture and Forestry Decrees 24/11, 12/12 and 7/13.</p>		<p>Conductivity Volumetric weight Moisture Organic matter</p> <p>Concentrations of harmful metals</p> <p>Raw materials</p>

3A3 Materials improving the soil structure

No 3A3	Type designation/entry into force	Manufacturing methods and related requirements	Maximum concentration for nutrients and other properties	Information to be declared in the product description
1	<p>Cover material</p> <p>Decree of the Ministry of Agriculture and Forestry 12/07</p>	<p>Product, manufactured from wood, bark or any other organic matter by processing technically, which may consist of one or more raw materials and which may also contain mineral substances.</p>	<p>Deviation in the stated raw material ratio +/- 10 %</p> <p>Permitted variation of the fragment size +/- 20 %</p>	<p>Fragment size (sieve size)</p> <p>Volumetric weight</p> <p>Raw materials (volume % or % by weight) and also added materials (for instance, colouring agent)</p>
2	<p>Mineral substance improving the soil structure</p> <p>Decree of the Ministry of Agriculture and Forestry 12/07</p> <p>Decree of the Ministry of Agriculture and Forestry 24/11</p>	<p>Perlite, vermiculite or other inorganic natural material. May contain plant nutrients.</p>		<p>Primary nutrients, if over 0.5 g/kg of dry matter. Secondary nutrients and micro-nutrients may be stated in accordance with Annex IIA.</p> <p>Raw materials</p>
3	<p>Plant-based substrate carbon</p> <p>Evira/1220/0733/2010</p>	<p>The product is manufactured by carbonising plant-based material by pyrolysis under conditions that will ensure good reduction of volatile compounds in the product.</p>		<p>Total phosphorus (P) Water-soluble phosphorus</p> <p>Total potassium (K)</p> <p>Water-soluble potassium pH</p> <p>Conductivity Moisture Ash content</p> <p>Concentrations of harmful metals Carbonising temperature and duration and Raw materials and origin</p>
4	<p>Absorbents</p> <p>Evira/4463/0733/2012</p>	<p>The product is manufactured by technical processing of epoxy urea formaldehyde.</p> <p>Product is intended to be mixed with</p>	<p>Water-soluble nitrogen content less than 10 mg/kg ka</p> <p>Conductivity less than 10 mSm</p>	<p>Total nitrogen (N) Water-soluble nitrogen Total phosphorus (P) Water-soluble phosphorus Total potassium (K) pH</p> <p>Conductivity Moisture Volumetric weight</p>

No 3A3	Type designation/entry into force	Manufacturing methods and related requirements	Maximum concentration for nutrients and other properties	Information to be declared in the product description
		commercial substrates to improve their structure and physical properties.		Raw materials and added materials

3A4 Materials increasing the biological activity

No 3A4	Type designation/entry into force	Manufacturing methods and related requirements	Minimum concentration for nutrients and other properties	Information to be declared in the product description
1	Mineral activator Decree of the Ministry of Agriculture and Forestry 12/07	Product assisting composting, containing mainly inorganic raw materials, solid or liquid. Product may have added enzymes, sugars, microbe strains or other organic substances with the effect of increasing the microbiological activity.		Primary nutrients Moisture If organic matter has been added, its quality and quantity must be stated in % Concentrations of harmful metals Raw materials
2	Organic composting product Decree of the Ministry of Agriculture and Forestry 12/07	Product containing organic raw materials, assisting composting, solid or liquid, including a biodynamic plant product assisting composting. Product may have added primary nutrients, secondary nutrients or micro-nutrients as inorganic salts, natural minerals, etc.	Amount of organic carbon: 10 % in solid 1 % in liquid	Primary nutrients Moisture Organic carbon Concentrations of harmful metals Raw materials
3	Biodynamic spray Decree of the Ministry of Agriculture and Forestry 12/07	Silicon spray, silicon Humus spray, composted cow dung		Raw materials
4	Biodynamic compost preparation Decree of the Ministry of Agriculture and Forestry 12/07	Plant products used in biodynamic composting.		Raw materials

3A5 By-products used as soil improvers as such

No 3A5	Type designation/entry into force	Manufacturing methods and related requirements	Minimum concentration for nutrients and other properties	Information to be declared in the product description
1	Lime stabilised sewage sludge Decree of the Ministry of	Sewage sludge processed by lime stabilising (pH over 12 at least 2 h).		Total nitrogen (N) Water-soluble nitrogen Total phosphorus (P) Water-soluble phosphorus Total

No 3A5	Type designation/entry into force	Manufacturing methods and related requirements	Minimum concentration for nutrients and other properties	Information to be declared in the product description
	Agriculture and Forestry 12/07	Restrictions of use in accordance with Ministry of Agriculture and Forestry Decrees 24/11, 12/12 and 7/13.		potassium (K) pH Conductivity Moisture Organic matter Concentrations of harmful metals Raw materials
2	Sludge residue Decree of the Ministry of Agriculture and Forestry 19/09	Hygienised sludge residue created as a by-product of a mesophilic or thermophilic biogas process, as is or mechanically dried. Restrictions of use in accordance with Ministry of Agriculture and Forestry Decrees 24/11, 12/12 and 7/13. Material of animal origin must be processed in an establishment approved in accordance with requirements laid down in Regulation (EC) No 1069/2009. Restrictions of use in accordance with Commission Regulation (EU) No 142/2011.		Total nitrogen (N) Water-soluble nitrogen Total phosphorus (P) Water-soluble phosphorus Total potassium (K) pH Conductivity Moisture Organic matter Concentrations of harmful metals Raw materials
3	Decayed sewage sludge Decree of the Ministry of Agriculture and Forestry 12/07	Mechanically dried sewage sludge produced as a by-product by thermophilic digestion (e.g. 55 °C, 10 hours) and aerobic decaying. Restrictions of use in accordance with Ministry of Agriculture and Forestry Decrees 24/11, 12/12 and 7/13.		Total nitrogen (N) Water-soluble nitrogen Total phosphorus (P) Water-soluble phosphorus Total potassium (K) pH Conductivity Moisture Organic matter Concentrations of harmful metals Raw materials
4	Fibre suspension Decree of the Ministry of Agriculture and Forestry 12/07	Dry suspension of timber industry used as such as cover material. Does not contain significant amounts of nutrients.		Conductivity Moisture Organic matter
5	Used mushroom house substrate Decree of the Ministry of Agriculture and Forestry 09/08	A by-product from growing edible mushrooms manufactured by composting, from manure of farm animals, bedding and materials aiding composting, and which has been deactivated by heating after use. To be stored in a dry place.	Quantity of organic matter(loss on ignition) 20 % of dry matter	Total nitrogen (N). Water-soluble nitrogen Total phosphorus (P) Water-soluble phosphorus Total potassium (K) pH Conductivity Moisture Organic matter Concentrations of harmful metals Raw materials (type of manure)
6	Used peat growth beds	Peat slab or bog taken out of use from a commercial vegetable plot in a greenhouse.	Amount of organic matter (loss on ignition)	Water-soluble nitrogen (N) Water-soluble phosphorus (P)

No 3A5	Type designation/entry into force	Manufacturing methods and related requirements	Minimum concentration for nutrients and other properties	Information to be declared in the product description
	Decree of the Ministry of Agriculture and Forestry 19/09		50 % of dry material	pH Conductivity Moisture Organic matter Raw materials
7	Chemically oxidised sewage sludge Decree of the Ministry of Agriculture and Forestry 19/09	Sewage sludge that is hygienised and dried by means of chemical hydrolysis (acid and hydrogen peroxide processing). Restrictions of use in accordance with Ministry of Agriculture and Forestry Decrees 24/11, 12/12 and 7/13.		Total nitrogen (N) Water-soluble nitrogen Total phosphorus (P) Water-soluble phosphorus Total potassium (K) pH Conductivity Moisture Organic matter Concentrations of harmful metals Raw materials
8	Gypsum Evira/923/0733/2012	Waste gypsum, a by-product of phosphorus fertiliser production, which is suitable as such as a soil improver or raw material for fertiliser products. Since the product contains sulfate which washes out easily, the eutrophication risk in lake areas must be mentioned in the user manual. It must be mentioned in the user manual that the product is not suited for use on fields where runoff water runs into inland waters.		Primary nutrients Decree 24/11, Annex I, 3A5 Water-soluble phosphorus (P) Total calcium (Ca) Total sulfur (S) Water-soluble sulfur (Decree of the Ministry of Agriculture and Forestry 24/11, Annex IIA) Moisture Concentrations of harmful metals

4 MICROBE PRODUCTS

4A1 Microbe products

No 4A1	Type designation/entry into force	Manufacturing methods and related requirements	Minimum concentration for nutrients and other properties	Information to be declared in the product description
1	Azotobacter product Decree of the Ministry of Agriculture and Forestry 12/07	The azotobacter product is manufactured from pure bacterium cultures that have a demonstrably significant impact on promoting plant growth. These genera of bacteria include, for instance, <i>Rhizobium</i> or <i>Frankia</i> bacteria.		Bacterial strains and amount of bacteria CFU/g and also plant species or genus for which the product is intended. Added substances
2	Mycorrhiza product Decree of the Ministry of Agriculture and Forestry 12/07	Product containing mycorrhiza fungus cultures.		Fungus species and the amount of reproductive particles qty/g Plant group or genus for which the product is intended Added substances
3	Microbiological product Decree of the Ministry of Agriculture and Forestry 12/07	Product containing bacterial strains and/or fungus strains.		Bacterial strains and fungus strains and their quantities CFU/g Added substances
4	Microbe product that promotes plant growth Decree of the Ministry of Agriculture and Forestry 19/09 Evisa/4229/0733/2010	A microbe product that promotes plant growth is manufactured from one or more naturally isolated pure bacterium or fungus cultures that have a demonstrably significant impact on promoting plant growth. Microbe genera of this kind include associative nitrogen-fixating bacteria such as <i>Azospirillum</i> bacteria or <i>Penicillium</i> fungi that increase the phosphorus intake of plants.	The product only contains the declared bacterial strains or fungus strains.	Bacterial/fungal strains and amount of bacteria/fungi CFU/g and also plant species, genera or plant groups for which the product is intended. Added substances and/or processing method used to ensure the storage life of the microbes

5 GROWING MEDIA

5A1 Peats

No 5A1	Type designation/entry into force	Manufacturing methods and related requirements	Minimum concentration for nutrients and other properties	Information to be declared in the product description
1	Horticultural peat Decree of the Ministry of Agriculture and Forestry 12/07	Limed and fertilised peat and also peat boards	Amount of organic matter (ignition loss) 50 % of dry matter	pH Conductivity Bulk density Degree of coarseness or maximum granular size (mm), and how it is measured In addition, the product description of fertilised peat must state: Water-soluble nitrogen (N) Soluble phosphorus (P) Soluble potassium (K)
2	Peat mixture Decree of the Ministry of Agriculture and Forestry 12/07	A mixture of different peat types with possibly added fertilisers, liming material, components improving the structure and properties of substrate and also compost meeting the requirements for substrate.		pH Conductivity Water-soluble nitrogen (N) Soluble phosphorus (P) Soluble potassium (K) Bulk density Degree of coarseness or maximum granular size (mm), and how it is measured
3	Special substrate product Decree of the Ministry of Agriculture and Forestry 12/07	Pressed material and other substrate products made of peat or any other materials containing humus with possibly added fertilisers, liming material, components improving the structure and properties of substrate and also compost meeting the requirements for substrate.		pH Conductivity Water-soluble nitrogen (N) Soluble phosphorus (P) Soluble potassium (K) Bulk density Degree of coarseness or maximum granular size (mm), and how it is measured

5A2 Mixed top soils

No 5A2	Type designation/entry into force	Manufacturing methods and related requirements	Maximum concentration for nutrients and other properties	Information to be declared in the product description
1	Fertilised and/or limed loose soil Decree of the Ministry of Agriculture and Forestry 12/07	Limed and/or fertilised substrate containing peat and mineral soil sold as loose soil.	Conductivity 50 mS/m	pH Conductivity Water-soluble nitrogen (N) Soluble phosphorus (P) Soluble potassium (K) Moisture Organic matter Degree of coarseness
2	Compost soil	Mixed soil containing compost, aged sewage	Conductivity 100 mS/m	pH Conductivity

No 5A2	Type designation/entry into force	Manufacturing methods and related requirements	Maximum concentration for nutrients and other properties	Information to be declared in the product description
	Decree of the Ministry of Agriculture and Forestry 12/07	sludge or inactivated and stabilised mushroom house substrate sold as loose soil. Product may contain added other fertiliser products. Restrictions of use are determined in accordance with the restrictions of use for raw materials		Water-soluble nitrogen (N) Soluble phosphorus (P) Soluble potassium (K) Moisture Organic matter Degree of coarseness Concentrations of harmful metals
3	Root vegetable soil Decree of the Ministry of Agriculture and Forestry 12/07	Soil sludge or waste soil coming to the factory or barking plant with root vegetable or beet raw materials, composted or aged at least for 5 years; in respect of the sugar beet and potato starch industry, at least for 2 years. The safety period is 3 years.	Conductivity 60 mS/m	pH Conductivity Moisture Organic matter Soluble nutrients may be declared Degree of coarseness Grading curve may be stated
4	Packaged plant soil Decree of the Ministry of Agriculture and Forestry 12/07	A substrate for balcony and indoor plants which may be a mixture of peat and mineral soil with possibly added fertilisers. Restrictions of use are determined in accordance with the restrictions of use for the raw materials	Conductivity 60 mS/m Conductivity in those containing compost 80 mS/m	pH Conductivity Water-soluble nitrogen (N) Soluble phosphorus (P) Soluble potassium (K) Moisture Bulk volume Degree of coarseness
5	Packaged mixed soil Decree of the Ministry of Agriculture and Forestry 12/07	Mixture of peat and mineral soil with possibly added fertilisers. Restrictions of use are determined in accordance with the restrictions of use for the raw materials	Conductivity 60 mS/m Conductivity in those containing compost 80 mS/m	pH Conductivity Water-soluble nitrogen (N) Soluble phosphorus (P) Soluble potassium (K) Moisture Bulk volume Degree of coarseness
6	Packaged special substrate Decree of the Ministry of Agriculture and Forestry 12/07	Special substrate intended for certain special plant groups, e.g. orchids and bonsai trees.		pH Conductivity Moisture Bulk volume In addition, the product description of the substrate must state: Water-soluble nitrogen (N) Soluble phosphorus (P) Soluble potassium (K)
7	Technically processed loose soil Decree of the Ministry of Agriculture and Forestry 19/09	Technically processed growth bed to be sold as loose soil, e.g. containing peat and different mineral soils.	Conductivity 50 mS/m	pH Conductivity Water-soluble nitrogen (N) Soluble phosphorus (P) Soluble potassium (K) Moisture Organic matter Degree of coarseness Raw materials

5A3 Other growing media

No 5A3	Type designation/entry into force	Manufacturing methods and related requirements	Maximum concentration for nutrients and other properties	Information to be declared in the product description
1	Mineral substrate Decree of the Ministry of Agriculture and Forestry 12/07 Decree of the Ministry of Agriculture and Forestry 24/11	Rock wool, perlite and vermiculite which can contain fertilisers and other fertiliser products.		pH Conductivity Water-soluble nitrogen (N) Soluble phosphorus (P) Soluble potassium (K) Moisture Organic matter Degree of coarseness
2	Growing solution Decree of the Ministry of Agriculture and Forestry 12/07	Solutions, suspensions and gels which may contain fertilisers and other fertiliser products		pH Conductivity Water-soluble nitrogen (N) Water-soluble phosphorus (P) Water-soluble potassium (K)
3	Coconut substrate Decree of the Ministry of Agriculture and Forestry 12/07 Decree of the Ministry of Agriculture and Forestry 24/11	Substrate made of coconut which may have added fertiliser products.	Conductivity 50 mS/m	pH Conductivity Water-soluble nitrogen (N) Soluble phosphorus (P) Soluble potassium (K) Moisture Organic matter Degree of coarseness
4	Plant fibre substrate Evira/6256/0733/2012	Substrate made of plant fibres which may have added fertiliser products.	Conductivity 50 mS/m	Water-soluble nitrogen (N) Soluble phosphorus (P) Soluble potassium (K) pH Conductivity Moisture Organic matter Degree of coarseness
5	Moss substrate Evira/8043/0733/2013	Substrate made of peat moss which may have added fertiliser products. When collecting peat moss, only the upper layer, meaning 20–30 cm deep, will be harvested.	Conductivity 50 mS/m	pH Conductivity Moisture Organic matter degree of coarseness or maximum granular size (mm), and how it is measured. In addition, the product description of fertilised peat must state: Water-soluble nitrogen (N) Soluble phosphorus (P) Soluble potassium (K)