

## ANNEX III

### Labelling requirements

#### PART II

#### PRODUCT-SPECIFIC LABELLING REQUIREMENTS

##### PFC 1: FERTILISER

1. The content of nutrients may be declared only where they are present in the EU fertilising product in the minimum quantity specified in Annex I for the relevant PFC.
2. If nitrogen (N) or phosphorus (P) are not declared nutrients, the content of nitrogen (N) or phosphorus pentoxide ( $P_2O_5$ ) shall nevertheless be indicated if above 0,5 % by mass. That indication shall be separate from the nutrient declaration.
3. The following rules apply to fertilisers containing inhibitors, as specified in CMC 1 in Part II of Annex II:
  - (a) the label shall state the words ‘nitrification inhibitor’, ‘denitrification inhibitor’ or ‘urease inhibitor’, as relevant;
  - (b) the nitrification inhibitor content shall be expressed as a % by mass of the total nitrogen (N) present as ammonium nitrogen ( $NH_4^+$ ) and urea nitrogen ( $CH_4N_2O$ );
  - (c) the denitrification inhibitor content shall be expressed as a % by mass of the nitrate ( $NO_3^-$ ) present;
  - (d) the urease inhibitor content shall be expressed as a % by mass of the total nitrogen (N) present as urea nitrogen ( $CH_4N_2O$ ).
4. The term ‘mineral fertiliser’ may be used only if the fertiliser belongs to PFC 1(C) and fulfils the following additional conditions:
  - (a) the mineral fertiliser must not contain more than 1 % by mass of organic carbon ( $C_{org}$ ), other than organic carbon from:
    - (i) chelating or complexing agents referred to in point 3 of CMC 1 in Part II of Annex II,
    - (ii) nitrification inhibitors, denitrification inhibitors or urease inhibitors referred to in point 4 of CMC 1 in Part II of Annex II,
    - (iii) coating agents referred to in point 1(a) of CMC 9 in Part II of Annex II,
    - (iv) urea ( $CH_4N_2O$ ), or
    - (v) calcium cyanamide ( $CaCN_2$ );
  - (b) where phosphorus (P) is a declared nutrient, the declared phosphorus content shall consist only of phosphorus in the phosphatic form, and the mineral fertiliser shall fulfil at least one of the following solubility criteria:
    - (i) water solubility: minimum level 40 % of total phosphorus (P),

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- (ii) solubility in neutral ammonium citrate: minimum level 75 % of total phosphorus (P), or
- (iii) solubility in formic acid (only for soft rock phosphate): minimum level 55 % of total phosphorus (P);
- (c) where nitrogen (N) is a declared nutrient, the declared nitrogen content shall consist only of the sum of nitric nitrogen, ammoniacal nitrogen, ureic nitrogen, and nitrogen from methylene-urea, from isobutylidenediurea, and from crotonylidenediurea.

PFC 1(A): ORGANIC FERTILISER

The following information shall be provided:

- (a) the declared primary nutrients nitrogen (N), phosphorus (P) or potassium (K), by their chemical symbols in the order N-P-K;
- (b) the declared secondary nutrients calcium (Ca), magnesium (Mg), sodium (Na), or sulphur (S) by their chemical symbols in the order Ca-Mg-Na-S;
- (c) numbers indicating the content of the declared nutrients total nitrogen (N), total phosphorus in the form of phosphorus pentoxide (P<sub>2</sub>O<sub>5</sub>) or total potassium in the form of potassium oxide (K<sub>2</sub>O), followed by numbers in brackets indicating the total content of calcium oxide (CaO), magnesium oxide (MgO), sodium oxide (Na<sub>2</sub>O) or sulphur trioxide (SO<sub>3</sub>);
- (d) the content of the following declared nutrients and other parameters, in the following order and as % by mass:
  - (i) nitrogen (N):
    - total nitrogen (N);
    - minimum amount of organic nitrogen (N<sub>org</sub>), followed by a description of the origin of the organic matter used;
    - nitrogen in the form of ammoniacal nitrogen;
  - (ii) total phosphorus pentoxide (P<sub>2</sub>O<sub>5</sub>);
  - (iii) total potassium oxide (K<sub>2</sub>O);
  - (iv) calcium oxide (CaO), magnesium oxide (MgO), sodium oxide (Na<sub>2</sub>O) and sulphur trioxide (SO<sub>3</sub>), expressed:
    - where those nutrients are totally soluble in water, only as the content soluble in water;
    - where the soluble content of those nutrients is at least a quarter of the total content of those nutrients, as the total content and as the content soluble in water;
    - in other cases, as the total content;
  - (v) organic carbon (C<sub>org</sub>);
  - (vi) dry matter;
- (e) the ratio of organic carbon to total nitrogen (C<sub>org</sub>/N);
- (f) production date;
- (g) the form of the physical unit of the product, such as powder or pellets, if applicable.

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## PFC 1(B): ORGANO-MINERAL FERTILISER

1. The following information shall be provided:
  - (a) the declared primary nutrients nitrogen (N), phosphorus (P) or potassium (K), by their chemical symbols in the order N-P-K;
  - (b) where applicable, the declared secondary nutrients calcium (Ca), magnesium (Mg), sodium (Na) or sulphur (S) by their chemical symbols in the order Ca-Mg-Na-S;
  - (c) numbers indicating the content of the declared nutrients total nitrogen (N), total phosphorus in the form of phosphorus pentoxide (P<sub>2</sub>O<sub>5</sub>) or total potassium in the form of potassium oxide (K<sub>2</sub>O), followed by numbers in brackets indicating the total content of calcium oxide (CaO), magnesium oxide (MgO), sodium oxide (Na<sub>2</sub>O) or sulphur trioxide (SO<sub>3</sub>);
  - (d) the content of the following declared nutrients and other parameters, in the following order and as % by mass:
    - (i) nitrogen (N):
      - total nitrogen (N);
      - minimum amount of organic nitrogen (N<sub>org</sub>), followed by a description of the origin of the organic matter used;
      - nitrogen in the form of nitric nitrogen;
      - nitrogen in the form of ammoniacal nitrogen;
      - nitrogen in the form of urea nitrogen;
    - (ii) phosphorus pentoxide (P<sub>2</sub>O<sub>5</sub>):
      - total phosphorus pentoxide (P<sub>2</sub>O<sub>5</sub>);
      - water-soluble phosphorus pentoxide (P<sub>2</sub>O<sub>5</sub>);
      - phosphorus pentoxide (P<sub>2</sub>O<sub>5</sub>) soluble in neutral ammonium citrate;
      - where soft ground phosphate is present, phosphorus pentoxide (P<sub>2</sub>O<sub>5</sub>) soluble in formic acid;
    - (iii) potassium oxide (K<sub>2</sub>O):
      - total potassium oxide (K<sub>2</sub>O);
      - water soluble potassium oxide (K<sub>2</sub>O);
    - (iv) calcium oxide (CaO), magnesium oxide (MgO), sodium oxide (Na<sub>2</sub>O) and sulphur trioxide (SO<sub>3</sub>), expressed:
      - where those nutrients are totally soluble in water, only as the content soluble in water;
      - where the soluble content of those nutrients is at least a quarter of the total content of those nutrients, as the total content and as the content soluble in water;
      - in other cases, as the total content;
    - (v) organic carbon (C<sub>org</sub>);
    - (vi) dry matter,

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- (e) where urea (CH<sub>4</sub>N<sub>2</sub>O) is present, information about the possible air quality impacts of the release of ammonia from the fertiliser use, and an invitation to users to apply appropriate remediation measures.
2. Where one or more of the micronutrients boron (B), cobalt (Co), iron (Fe), manganese (Mn) and molybdenum (Mo) are present in the minimum content indicated as % by mass in the following table, they:
- shall be declared if they are intentionally added to an organo-mineral fertiliser, and
  - may be declared in other cases:

Micronutrient	Content of micronutrient (% by mass)		
	Solid organo-mineral fertiliser		Liquid organo-mineral fertiliser
	Intended for use on crops or grassland	Intended for horticultural use	
Boron (B)	0,01	0,01	0,01
Cobalt (Co)	0,002	n.a.	0,002
Iron (Fe)	0,5	0,02	0,02
Manganese (Mn)	0,1	0,01	0,01
Molybdenum (Mo)	0,001	0,001	0,001

3. Where one or both of the micronutrients copper (Cu) and zinc (Zn) are present, without being intentionally added, in the minimum content indicated as % by mass in the following table, they may be declared:

Micronutrient	Content of micronutrient (% by mass)		
	Solid organo-mineral fertiliser		Liquid organo-mineral fertiliser
	Intended for use on crops or grassland	Intended for horticultural use	
Copper (Cu)	0,01	0,002	0,002
Zinc (Zn)	0,01	0,002	0,002

4. Where copper (Cu) or zinc (Zn) is intentionally added to the organo-mineral fertiliser, the total content of copper (Cu) or zinc (Zn) shall be declared.
5. The micronutrients referred to in points 2, 3 and 4 shall be declared after the information on macronutrients. The following information shall be provided:
- (a) indication of the names and chemical symbols of the declared micronutrients, listed in the following order: boron (B), cobalt (Co), copper (Cu), iron (Fe), manganese (Mn), molybdenum (Mo) and zinc (Zn), followed by the names of their counter-ions;
- (b) the total micronutrient content expressed as % by mass:
- where those micronutrients are totally soluble in water, only as the content soluble in water;

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- where the soluble content of those micronutrients is at least a quarter of the total content of those micronutrients, as the total content and as the content soluble in water;
  - in other cases, as the total content;
- (c) where the declared micronutrients are chelated by chelating agents, the following qualifier after the name and the chemical identifier of the micronutrient:
- ‘chelated by ... (name of the chelating agent or its abbreviation)’, and the amount of chelated micronutrient as % by mass;
- (d) where the organo-mineral fertiliser contains micronutrients complexed by complexing agents the following qualifier after the name and the chemical identifier of the micronutrient:
- ‘complexed by ... (name of the complexing agent or its abbreviation)’, and the amount of complexed micronutrient as % by mass;
- (e) where micronutrients are intentionally added, the following statement: ‘To be used only where there is a recognised need. Do not exceed the application rate’.
6. Where an organo-mineral fertiliser has a cadmium (Cd) content equal to or lower than 20 mg/kg phosphorus pentoxide (P<sub>2</sub>O<sub>5</sub>), the statement ‘Low cadmium (Cd) content’ or similar, or a visual representation to that effect, may be added.

#### PFC 1(C): INORGANIC FERTILISER

##### PFC 1(C)(I): INORGANIC MACRONUTRIENT FERTILISER

1. The following information shall be provided:
- (a) where applicable, the declared primary nutrients nitrogen (N), phosphorus (P) or potassium (K), by their chemical symbols in the order N-P-K;
- (b) where applicable, the declared secondary nutrients calcium (Ca), magnesium (Mg), sodium (Na) or sulphur (S) by their chemical symbols in the order Ca-Mg-Na-S;
- (c) numbers indicating the content of the declared nutrients total nitrogen (N), total phosphorus in the form of phosphorus pentoxide (P<sub>2</sub>O<sub>5</sub>) or total potassium in the form of potassium oxide (K<sub>2</sub>O), followed by numbers in brackets indicating the total content of calcium oxide (CaO), magnesium oxide (MgO), sodium oxide (Na<sub>2</sub>O) or sulphur trioxide (SO<sub>3</sub>);
- (d) the content of the following declared nutrients, in the following order and as % by mass:
- (i) nitrogen (N):
    - total nitrogen (N);
    - nitrogen in the form of nitric nitrogen;
    - nitrogen in the form of ammoniacal nitrogen;
    - nitrogen in the form of urea nitrogen;
    - nitrogen from urea formaldehyde, isobutylidenediurea, crotonylidenediurea;
    - nitrogen from cyanamide nitrogen;
  - (ii) phosphorus pentoxide (P<sub>2</sub>O<sub>5</sub>):
    - total phosphorus pentoxide (P<sub>2</sub>O<sub>5</sub>);
    - water-soluble phosphorus pentoxide (P<sub>2</sub>O<sub>5</sub>);

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- phosphorus pentoxide (P<sub>2</sub>O<sub>5</sub>) soluble in neutral ammonium citrate;
- where soft ground phosphate is present, phosphorus pentoxide (P<sub>2</sub>O<sub>5</sub>) soluble in formic acid;
- (iii) water soluble potassium oxide (K<sub>2</sub>O);
- (iv) calcium oxide (CaO), magnesium oxide (MgO), sodium oxide (Na<sub>2</sub>O) and sulphur trioxide (SO<sub>3</sub>), expressed:
  - where those nutrients are totally soluble in water, only as the content soluble in water;
  - where the soluble content of those nutrients is at least a quarter of the total content of those nutrients, as the total content and as the content soluble in water;
  - in other cases, as the total content;
- (e) where urea (CH<sub>4</sub>N<sub>2</sub>O) is present, information about the possible air quality impacts of the release of ammonia from the fertiliser use, and an invitation to users to apply appropriate remediation measures.

2. Where an inorganic macronutrient fertiliser has a cadmium (Cd) content equal to or lower than 20 mg/kg phosphorous pentoxide (P<sub>2</sub>O<sub>5</sub>), the statement ‘Low cadmium (Cd) content’ or similar, or a visual representation to that effect, may be added.

**PFC 1(C)(I)(a): SOLID INORGANIC MACRONUTRIENT FERTILISER**

1. A solid inorganic macronutrient fertiliser may be labelled ‘complex’ only if each physical unit contains all the declared nutrients in their declared content.
2. The granulometry of a solid inorganic macronutrient fertiliser shall be indicated, expressed as % by mass of the product passing through a determined sieve.
3. The form of the physical unit of the product shall be indicated with one of the following mentions:
  - (a) granules,
  - (b) pellets,
  - (c) powder, where at least 90 % by mass of the product can pass through a sieve with a mesh of 1 mm, or
  - (d) prills.
4. For coated solid inorganic macronutrient fertilisers, the name of the coating agents and the percentage of fertiliser coated by each coating agent shall be indicated and followed by:
  - (a) for polymer coated solid inorganic macronutrient fertilisers, the following marking: ‘The rate of nutrient releases can vary according to the temperature of the substrate. An adjustment of fertilisation may be necessary’; and
  - (b) for sulphur (S) coated solid inorganic macronutrient fertilisers and sulphur (S)/polymer coated solid inorganic macronutrient fertilisers, the following marking: ‘The rate of nutrient release can vary according to the temperature of the substrate and the biological activity. An adjustment of fertilisation may be necessary’.

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5. Where one or more of the micronutrients boron (B), cobalt (Co), iron (Fe), manganese (Mn) and molybdenum (Mo) are present in the minimum content indicated in the following table as % by mass, they:
- shall be declared if they are intentionally added to the solid inorganic macronutrient fertiliser, and
  - may be declared in other cases:

Micronutrient	Content of micronutrients (% by mass)	
	Intended for use on crops or grassland	Intended for horticultural use
Boron (B)	0,01	0,01
Cobalt (Co)	0,002	n.a.
Iron (Fe)	0,5	0,02
Manganese (Mn)	0,1	0,01
Molybdenum (Mo)	0,001	0,001

6. Where one or both of the micronutrients copper (Cu) and zinc (Zn) are present, without being intentionally added, in the minimum content indicated as % by mass in the following table, they may be declared:

Micronutrient	Content of micronutrients (% by mass)	
	Intended for use on crops or grassland	Intended for horticultural use
Copper (Cu)	0,01	0,002
Zinc (Zn)	0,01	0,002

7. Where copper (Cu) or zinc (Zn) is intentionally added to the solid inorganic macronutrient fertiliser the total content of copper (Cu) or zinc (Zn) shall be declared.
8. The micronutrients referred to in points 5, 6 and 7 shall be declared after the information on macronutrients. The following information shall be provided:
- (a) indication of the names and chemical symbols of the declared micronutrients, listed in the following order: boron (B), cobalt (Co), copper (Cu), iron (Fe), manganese (Mn), molybdenum (Mo) and zinc (Zn), followed by the names of their counter-ions;
  - (b) the total micronutrient content expressed as % by mass:
    - where those micronutrients are totally soluble in water, only as the content soluble in water;
    - where the soluble content of those micronutrients is at least a quarter of the total content of those micronutrients, as the total content and as the content soluble in water;
    - in other cases, as the total content;
  - (c) where the declared micronutrients are chelated by chelating agents, the following qualifier after the name and the chemical identifier of the micronutrient:

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- ‘chelated by ... (name of the chelating agent or its abbreviation)’, and the amount of chelated micronutrient as % by mass;
- (d) where the solid inorganic macronutrient fertiliser contains micronutrients complexed by complexing agents the following qualifier after the name and the chemical identifier of the micronutrient:
  - ‘complexed by ... (name of the complexing agent or its abbreviation)’, and the amount of complexed micronutrient as % by mass;
- (e) where micronutrients are intentionally added, the following statement: ‘To be used only where there is a recognised need. Do not exceed the application rate’.

**PFC 1(C)(I)(b): LIQUID INORGANIC MACRONUTRIENT FERTILISER**

1. The label shall indicate whether the liquid inorganic macronutrient fertiliser is in suspension or in solution.
2. The nutrient content may be indicated as % by mass or volume.
3. Where one or more of the micronutrients boron (B), cobalt (Co), iron (Fe), manganese (Mn) and molybdenum (Mo) are present in the minimum content indicated in the following table as % by mass, they:
  - shall be declared if they are intentionally added to the liquid inorganic macronutrient fertiliser, and
  - may be declared in other cases:

<b>Micronutrient</b>	<b>Content of micronutrient (% by mass)</b>
Boron (B)	0,01
Cobalt (Co)	0,002
Iron (Fe)	0,02
Manganese (Mn)	0,01
Molybdenum (Mo)	0,001

4. Where one or both of the micronutrients copper (Cu) and zinc (Zn) are present, without being intentionally added, by at least 0,002 % by mass, they may be declared.
5. Where copper (Cu) or zinc (Zn) is intentionally added to the liquid inorganic macronutrient fertiliser the total content of copper (Cu) or zinc (Zn) shall be declared.
6. The micronutrients referred to in points 3, 4 and 5 shall be declared after the information on macronutrients. The following information shall be provided:
  - (a) indication of the names and chemical symbols of the declared micronutrients, listed in the following order: boron (B), cobalt (Co), copper (Cu), iron (Fe), manganese (Mn), molybdenum (Mo) and zinc (Zn), followed by the names of their counter-ions;
  - (b) the total micronutrient content expressed as % by mass or volume:
    - where those micronutrients are totally soluble in water, only as the content soluble in water;
    - where the soluble content of those micronutrients is at least a quarter of the total content of those micronutrients, as the total content and as the content soluble in water;

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- in other cases, as the total content;
- (c) where the declared micronutrients are chelated by chelating agents, the following qualifier after the name and the chemical identifier of the micronutrient:
  - ‘chelated by ... (name of the chelating agent or its abbreviation)’, and the amount of chelated micronutrient as % by mass;
- (d) where the liquid inorganic macronutrient fertiliser contains micronutrients complexed by complexing agents the following qualifier after the name and the chemical identifier of the micronutrient:
  - ‘complexed by ... (name of the complexing agent or its abbreviation)’, and the amount of complexed micronutrient as % by mass;
- (e) where micronutrients are intentionally added, the following statement: ‘To be used only where there is a recognised need. Do not exceed the application rate’.

**PFC 1(C)(II): INORGANIC MICRONUTRIENT FERTILISER**

1. The declared micronutrients in the inorganic micronutrient fertiliser shall be listed by their names and chemical symbols in the following order: boron (B), cobalt (Co), copper (Cu), iron (Fe), manganese (Mn), molybdenum (Mo) and zinc (Zn), followed by the names of their counter-ions.
2. Where the declared micronutrients are chelated by chelating agents, and each chelating agent can be identified and quantified and chelates at least 1 % water-soluble micronutrient, the following qualifier shall be added after the name and the chemical identifier of the micronutrient:
  - ‘chelated by ... (name of the chelating agent or its abbreviation)’, and the amount of chelated micronutrient as % by mass.
3. Where the declared micronutrients are complexed by complexing agents, the following qualifier shall be added after the name and the chemical identifier of the micronutrient:
  - ‘complexed by ... (name of the complexing agent or its abbreviation)’, and the amount of complexed micronutrient as % by mass.
4. The following statement shall appear: ‘To be used only where there is a recognised need. Do not exceed the application rate’.

**PFC 1(C)(II)(a): STRAIGHT INORGANIC MICRONUTRIENT FERTILISER**

1. The label shall indicate the relevant typology, as referred to in the table under PFC 1(C)(II)(a) in Part II of Annex I.
2. The total micronutrient content shall be expressed as % by mass:
  - where the micronutrient is totally soluble in water, only as the content soluble in water;
  - where the soluble content of the micronutrient is at least a quarter of the total content of that micronutrient, as the total content and as the content soluble in water;
  - in other cases, as the total content.

**PFC 1(C)(II)(b): COMPOUND INORGANIC MICRONUTRIENT FERTILISER**

1. Micronutrients may be declared only if they are present in the minimum content indicated in the following table as % by mass:

Micronutrient	Content of micronutrient (% by mass)	
	Non-chelated, non-complexed	Chelated or complexed

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Boron (B)	0,2	n.a.
Cobalt (Co)	0,02	0,02
Copper (Cu)	0,5	0,1
Iron (Fe)	2	0,3
Manganese (Mn)	0,5	0,1
Molybdenum (Mo)	0,02	n.a.
Zinc (Zn)	0,5	0,1

2. If the compound inorganic micronutrient fertiliser is in suspension or in solution, the label shall indicate ‘in suspension’ or ‘in solution’, as relevant.
3. The total micronutrient content shall be expressed as % by mass:
  - where the micronutrients are totally soluble in water, only as the content soluble in water;
  - where the soluble content of the micronutrients is at least half of the total content of those micronutrients, as the total content and as the content soluble in water;
  - in other cases, as the total content.

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