

L.N. 165 of 2001**PRODUCT SAFETY ACT, 2001
(ACT NO. V OF 2001)****Fertilizers Regulations, 2001**

IN exercise of the powers conferred by article 38 of the Product Safety Act, the Minister for Economic Services, on the advice of the Malta Standards Authority, has made the following regulations:-

1.1 The title of these regulations is the Fertilizers Regulations, 2001. Citation and commencement.

1.2 These regulations shall come into effect on the 1st July, 2001.

2.1 These regulations shall apply to products which are marketed as fertilizers and designated 'EC fertilizer'. Applicability

3.1 The designation 'EC fertilizer' may only be used for fertilizers belonging to one of the fertilizer types listed in the First Schedule and complying with the conditions laid down by these regulations and by the First to Third Schedules thereof. Marketing of 'EC fertilizers'.

3.2 The fertilizers referred to in regulation 2.1 must be provided with identification markings. These identification markings are listed under paragraph 1 of the Second Schedule and the terms and conditions governing the application of these markings are set out under paragraph 2 of the same Schedule.

3.3 If the fertilizers are packed, the markings referred to in regulation 3.2 must appear on the packages or labels. For containers with a quantity of fertilizer exceeding 100 kg, these markings need appear only on the accompanying documents. If the fertilizers are in bulk, these markings must appear on the accompanying documents.

4.1 Without prejudice to other applicable provisions, the only markings permitted on the packages, labels and accompanying documents referred to in regulation 3.3 shall be the following indications relating to fertilizers: Permitted markings.

- (a) the compulsory identification markings specified in paragraph 1 of the Second Schedule;

(b) the optional data listed in the First Schedule;

(c) the manufacturer's own mark, the trade mark of the product and the trade description of the product;

(d) the specific directions for the use, storage and handling of the fertilizer.

The indications referred to in paragraphs (c) and (d) may not conflict with those referred to in paragraphs (a) and (b) hereof and must be clearly separated from them.

4.2 All the markings referred to in regulation 4.1 must be clearly separated from any other information on the packages, labels and accompanying documents.

4.3 Fluid fertilizers may be marketed only if suitable directions are provided. These directions shall cover, in particular, storage temperature and prevention of accidents during storage.

Closure of
packages.

5.1 In the case of packaged fertilizers, the package must be closed in such a way or by such a device that, when it is opened, the fastening, fastening seal or the package itself is irreparably damaged. Valve sacks may be used.

Verification of
compliance

6.1 Compliance with these regulations and with the First and Second Schedules thereof in respect of conformity to types of fertilizer and compliance with the declared nutrient content and the declared content expressed as forms and/or solubilities of such nutrients may be verified at official inspections only by means of the sampling and analysis methods laid down by Commission Directive 77/535/EEC, as amended, and taking into account the tolerances specified in the Third Schedule to these regulations.

Calcium,
magnesium, sodium
and sulphur content
of fertilizers.

7.1 A declaration of the magnesium, sodium and sulphur content of the EC fertilizers listed in the First Schedule may be made provided that these elements are present in at least the minimum quantities specified in regulation 7.2 and that the EC fertilizers continue to specify the requirements of the First Schedule. In such cases, the marking specified in paragraph (b) of regulation 7.4 shall be added to the type designation.

7.2 A declaration of the magnesium, sodium and sulphur content of the EC fertilizers referred to in regulation 7.1 may be made only if they contain not less than:

- 2% of magnesium oxide (MgO), i.e. 1.2% Mg,
- 3% of sodium oxide (Na₂O), i.e. 2.2% Na,
- 5% of sulphur trioxide (SO₃), i.e. 2% S.

7.3 Within the meaning of these regulations, a declaration of the calcium content considered to be a nutrient shall be made, without prejudice to regulation 7.3.1, only for fertilizers of types 1 and 2 as listed in the First Schedule. The following formula shall be used to convert the calcium oxide content into a calcium content:

$$\text{calcium (Ca)} = \text{calcium oxide (CaO)} \times 0.715$$

7.3.1 The soluble calcium content of the liquid fertilizers referred to in Part C of the First Schedule, which are intended for foliage spraying, may be stipulated when the content reaches a minimum of 8% calcium oxide (= 5.7% Ca).

7.4 The following marking shall be compulsory for identification purposes in the case of EC fertilizers containing calcium, sodium, magnesium or sulphur:

- (a) "EC FERTILIZER" in capital letters;
- (b) the designation of the type of fertilizer:
 - either in accordance with the First Schedule, with the designation of the type being followed by 'containing
 - and the names or chemical symbols of the elements referred to in these regulations which the fertilizer contains. The figures indicating the contents of the elements referred to in these regulations may be followed by figures in brackets for the elements referred to in Part D of the First Schedule,
 - or in accordance with Part D of the First Schedule;
- (b) the guaranteed content in respect of each nutrient and the guaranteed content expressed as forms and/or solubilities, where these are specified in the Schedules.

7.4.1 The nutrient content of straight and compound fertilizers shall be given as a percentage by weight in whole numbers, or where necessary, to one decimal place.

7.4.2 If a fertilizer contains several declarable elements, their contents shall be indicated in the following order:

N, P_2O_5 and/or P, K_2O and/or K, CaO or Ca, MgO and/or Mg, Na_2O and/or Na, SO_3 and/or S.

7.4.3 The forms and solubilities of the nutrients shall also be expressed as a percentage by weight of fertilizer, except where the First Schedule explicitly provides that this content shall be otherwise expressed.

7.4.4 Nutrients shall be indicated both in words and by appropriate chemical symbols, e.g. nitrogen (N), phosphorus (P), phosphorus pentoxide (P_2O_5), potassium (K), potassium oxide (K_2O), magnesium (Mg), magnesium oxide (MgO), sodium (Na), sodium oxide (Na_2O), sulphur (S), sulphur trioxide (SO_3), calcium (Ca) and calcium oxide (CaO).

7.5 The declaration of the magnesium, sodium and sulphur content of the fertilizers referred to in regulation 7.1 shall be expressed in one of the following ways:

- the total content expressed as a percentage of the fertilizer by weight,
- where an element is totally soluble in water, only the content soluble in water shall be declared,
- the total content and the content soluble in water, expressed as a percentage of the fertilizer by weight when the soluble content is at least a quarter of the total content.

7.5.1 The contents shall be determined under the conditions specified in the analytical methods laid down by Commission Directive 77/535/EEC.

7.6 The tolerances allowed in respect of the declared calcium, magnesium, sodium and sulphur contents shall be a quarter of the declared contents of these elements up to a maximum of 0.9% in absolute terms for CaO, MgO, Na_2O and SO_3 , i.e. 0.64 for Ca, 0.55 for Mg, 0.67 for Na and 0.36 for S.

7.7 Fertilizers meeting the requirements of regulations 7.1 to 7.6 and of Part D of the First Schedule may be marked 'EC FERTILIZER'.

Trace element
content.

8.1 Solid or fluid fertilizers listed in Section A of Part E of the First Schedule, containing only one of the following trace elements: boron, cobalt, copper, iron, manganese, molybdenum or zinc, and meeting the requirements of the said Section A, may be marked 'EC FERTILIZER'.

8.2 Mixtures of two or more of the fertilizers referred to in regulation 9.1 containing at least two different trace elements may be marked 'EC FERTILIZER' if they meet the requirements of Section B of Part E of the First Schedule.

8.3 EC fertilizers complying with the provisions of regulations 9.1 or 9.2 shall be packaged.

8.4 The content of one or more of the following trace elements: boron, cobalt, copper, iron, manganese, molybdenum or zinc in the EC fertilizers listed in the First Schedule shall be declared where the following two conditions are fulfilled:

(a) the trace elements are added and present at least in the minimum quantities specified in Sections C and D of Part E of the First Schedule;

(b) the EC fertilizers must continue to satisfy the requirements of the First Schedule.

8.5 Where the trace elements are the normal ingredients of the raw materials intended to supply major and secondary elements, their declaration shall be optional, provided that these trace elements are present at least in the minimum quantities specified in Sections C and D of Part E of the First Schedule.

8.6 The compulsory markings for the identification of EC fertilizers containing one or more of the trace elements mentioned in regulation 8.1 shall be as follows:

- (a) 'EC FERTILIZER' in capital letters,
 - the designation of the type of fertilizer: either in accordance with Section A of Part E of the First Schedule,
 - or as the type designation 'Mixture of trace elements', followed by the names of the trace elements present or their chemical symbols,
 - or in accordance with the First Schedule, by adding to the type designation either:

with trace elements',

or

'with' followed by the name or names of the trace elements present or by their chemical symbols.

Only the numbers stating the contents of the major and secondary elements covered by these regulations shall follow the type designation.

Where several trace elements are present they shall be listed in the alphabetical of their chemical symbols: B, Co, Cu, Fe, Mn, Mo, Zn;

(c) the guaranteed content in respect of each nutrient and the guaranteed content expressed as forms and/or solubilities where these are specified in the Schedules and, for each trace element present, as required by regulation 8.8;

(d) where all or part of the trace element is chemically linked with an organic molecule, the name of that element is then followed by one of the following qualifiers:

- 'chelated by

 (name of chelating agent or its abbreviation as set out in Section E(1) of Part E of the First Schedule,

- 'complexed by

 (name of complexing agent as set out in Section E(2) of Part E of the First Schedule.

The trace element content shall be expressed as a percentage by weight, in whole numbers or where necessary to one decimal place for fertilizers containing only one trace element (Section A of Part E of the First Schedule). Where fertilizers contain several trace elements the number of decimal places may, for a given element, be as set out in Sections B, C and D of Part E of the First Schedule.

Trace element content shall be expressed both in words and by the appropriate chemical symbols.

The following shall be entered on the label or accompanying papers, with regard to the products appearing in Sections A and B of Part E of the First Schedule below the obligatory or optional declarations:

'To be used only where there is a recognized need. Do not exceed the appropriate dose rates.'

8.7 The person in charge of marketing in Malta an EC fertilizer containing one of the trace elements mentioned in regulation 8.1 shall ensure that an indication is given of the dose rates and conditions of use suitable for the soil and crop conditions under which the fertilizer is used. This information must be clearly separated from the obligatory declarations provided for in regulation 8.6.

8.8 The trace element content of EC fertilizers placed on the market must be stated in the form of elements (B, Co, Cu, Fe, Mn, Mo, Zn).

8.8.1 The trace element content of a fertilizer shall be declared in the following manner:

(a) for the fertilizers referred to in regulation 8.1: in accordance with the requirements set out in Section A (column 6) of Part E of the First Schedule;

(b) for the fertilizers referred to in regulation 8.2 and regulations 8.4 and 8.5 by indicating: the total content, expressed as a percentage by weight of the fertilizer, and the water-soluble content, expressed as a percentage by weight of the fertilizer, where that solubility is at least half of the total content.

Where a trace element is totally water-soluble, only the water-soluble content shall be declared.

The trace element content of a fertilizer shall be determined under the conditions laid down in the methods of analysis laid down in Commission Directive 77/535/EEC.

Where a trace element is chemically linked with an organic molecule the content present in the fertilizer shall be declared immediately following the water-soluble content as a percentage by weight of the product, followed by one of the terms: 'chelated by' or 'complexed by' with the name of the organic molecule as set out in Section E of Part E of the First Schedule. The name of the organic molecule may be replaced by its initials.

8.9 The tolerance allowed in respect of the declared trace element content shall be:

- 0.4% in absolute terms for a content of more than 2%,
- one-fifth of the 'declared value for a content not exceeding 2%.

FIRST SCHEDULE

A. STRAIGHT FERTILISERS

1. NITROGENOUS FERTILISERS

No	Type designation	Data on method of production and essential ingredients	Minimum content of nutrients (percentage by weight); data on the expression of nutrients; other requirements	Other data on the type designation	Nutrient content to be declared; forms and solubilities of the nutrients; other criteria
1	2	3	4	5	6
1 (a)	Calcium nitrate (nitrate of lime)	Chemically obtained product containing calcium nitrate as its essential ingredient and possibly ammonium nitrate	15 % N Nitrogen expressed as total nitrogen or as nitric and ammoniacal nitrogen. Maximum content of ammoniacal nitrogen: 1.5 % N		Total nitrogen <i>Additional optional particulars:</i> Nitric nitrogen Ammoniacal nitrogen
1 (b)	Calcium magnesium nitrate (nitrate of lime and magnesium)	Chemically obtained product containing calcium nitrate and magnesium nitrate as essential ingredients	13 % N Nitrogen expressed as nitric nitrogen. Minimum content of magnesium in the form of water-soluble salts expressed as magnesium oxide: 5 % MgO		Nitric nitrogen Water-soluble magnesium oxide
1 (c)	Magnesium nitrate	Chemically obtained product containing as its essential ingredient hexahydrated magnesium nitrate	10 % N Nitrogen expressed as nitric nitrogen 14 % MgO Magnesium expressed as water-soluble magnesium oxide	When marketed in the form of crystals, as note 'in crystallized form' may be added	Nitric nitrogen Water-soluble magnesium oxide
2 (a)	Sodium nitrate (nitrate of soda)	Chemically obtained product containing sodium nitrate as its essential ingredient	15 % N Nitrogen expressed as nitric nitrogen		Nitric nitrogen

No	Type designation	Data on method of production and essential ingredients	Minimum content of nutrients (percentage by weight); data on the expression of nutrients; other requirements	Other data on the type designation	Nutrient content to be declared; forms and solubilities of the nutrients; other criteria
1	2	3	4	5	6
2 (b)	Chile nitrate	Product prepared from caliche, containing sodium nitrate as its essential ingredient	15 % N Nitrogen expressed as nitric nitrogen		Nitric nitrogen
3 (a)	Calcium cyanamide	Chemically obtained product containing calcium cyanamide as its essential ingredient, calcium oxide and possibly small quantities of ammonium salts and urea	18 % N Nitrogen expressed as total nitrogen, at least 75 % of the nitrogen declared being bound in the form of cyanamide		Total nitrogen
3 (b)	Nitrogenous calcium cyanamide	Chemically obtained product containing calcium cyanamide as its essential ingredient, and calcium oxide and possibly small quantities of ammonium salts and urea, plus added nitrate	18 % N Nitrogen expressed as total nitrogen, at least 75 % of the non-nitric nitrogen declared being bound in the form of cyanamide. Nitric nitrogen content: minimum: 1 % N maximum: 3 % N		Total nitrogen Nitric nitrogen
4	Sulphate of ammonia	Chemically obtained product containing ammonium sulphate as its essential ingredient	20 % N Nitrogen expressed as ammoniacal nitrogen		Ammoniacal nitrogen
5	Ammonium nitrate or calcium ammonium nitrate	Chemically obtained product containing ammonium nitrate as its essential ingredient, which may contain fillers such as ground limestone, calcium sulphate, ground dolomite, magnesium sulphate, kieserite	20 % N Nitrogen expressed as nitric nitrogen and ammoniacal nitrogen, each of these two forms of nitrogen accounting for about half the nitrogen present	The designation 'calcium ammonium nitrate' is exclusively reserved for a fertilizer containing only calcium carbonate (limestone) and/or magnesium carbonate and calcium carbonate (dolomite)	Total nitrogen Nitric nitrogen Ammoniacal nitrogen

No	Type designation	Data on method of production and essential ingredients	Minimum content of nutrients (percentage by weight); data on the expression of nutrients; other requirements	Other data on the type designation	Nutrient content to be declared; forms and solubilities of the nutrients; other criteria
1	2	3	4	5	6
6	Ammonium sulphate-nitrate	Chemically obtained product containing as essential ingredients ammonium nitrate and ammonium sulphate	25 % N Nitrogen expressed as ammoniacal and nitric nitrogen. Minimum nitric nitrogen content: 5 %	in addition to ammonium nitrate. The minimum content of these carbonates must be 20 % and their purity level at least 90 %	Total nitrogen Ammoniacal nitrogen Nitric nitrogen
7	Magnesium sulphonitrate	Chemically obtained product containing ammonium nitrate, ammonium sulphate and magnesium sulphate as essential ingredients	19 % N Nitrogen expressed as ammoniacal and nitric nitrogen. Minimum nitric nitrogen content: 6 % N 5 % MgO Magnesium in the form of water-soluble salts expressed as total magnesium oxide		Total nitrogen Ammoniacal nitrogen Nitric nitrogen Water-soluble magnesium oxide
8	Magnesium ammonium nitrate	Chemically obtained product containing ammonium nitrates and magnesium compound salts (dolomite magnesium carbonate and/or magnesium sulphate) as essential ingredients	19 % N Nitrogen expressed as ammoniacal and nitric nitrogen. Minimum nitric nitrogen content: 6 % N 5 % MgO Magnesium expressed as total magnesium oxide		Total nitrogen Ammoniacal nitrogen Nitric nitrogen Total magnesium oxide and possibly, water-soluble magnesium oxide
9	Urea	Chemically obtained product containing carbonyl diamide (carbamide) as its essential ingredient	44 % N Total ureic nitrogen (including biuret). Maximum biuret content: 1.2 %		Total nitrogen, expressed as ureic nitrogen

No	Type designation	Data on method of production and essential ingredients	Minimum content of nutrients (percentage by weight); data on the expression of nutrients; other requirements	Other data on the type designation	Nutrient content to be declared; forms and solubilities of the nutrients; other criteria
1	2	3	4	5	6
10	Crotonylidene diurea	Product obtained by reaction of urea with crotonaldehyde Monomeric compound	28 % N Nitrogen expressed as total nitrogen At least 25 % N from the crotonylidene diurea Maximum ureic nitrogen content: 3 %		Total nitrogen Ureic nitrogen where this is at least 1 % by weight Nitrogen from crotonylidene diurea
11	Isobutylidene diurea	Product obtained by reaction of urea with isobutyraldehyde Monomeric compound	28 % N Nitrogen expressed as total nitrogen At least 25 % N from isobutylidene diurea Maximum ureic nitrogen content: 3 %		Total nitrogen Ureic nitrogen where this is at least 1 % by weight Nitrogen from isobutylidene diurea
12	Urea formaldehyde	Product obtained by reaction of urea with formaldehyde and containing as its essential ingredients molecules of urea formaldehyde Polymeric compound	36 % total nitrogen Nitrogen expressed as total nitrogen At least 31 % N from urea formaldehyde Maximum ureic nitrogen content: 5 %		Total nitrogen Ureic nitrogen where this is at least 1 % by weight Nitrogen from formaldehyde urea that is soluble in cold water Nitrogen from formaldehyde urea that is only soluble in hot water
13	Nitrogenous fertilizer containing crotonylidene diurea	Product obtained chemically containing crotonylidene diurea and a straight nitrogen fertilizer [First Schedule List A1, excluding products 3(a), 3(b) and 5]	18 % N expressed as total nitrogen At least 3 % nitrogen in ammoniacal and/or nitric and/or ureic form At least 1/3 of the declared total nitrogen content must be derived from crotonylidene		Total nitrogen For each form amounting to at least 1 %: - nitric nitrogen - ammoniacal nitrogen - ureic nitrogen Nitrogen from crotonylidene

No	Type designation	Data on method of production and essential ingredients	Minimum content of nutrients (percentage by weight); data on the expression of nutrients; other requirements	Other data on the type designation	Nutrient content to be declared; forms and solubilities of the nutrients; other criteria
1	2	3	4	5	6
			diurea Maximum biuret content: (ureic N + cratonylidene diurea N) x 0.026		diurea
14	Nitrogenous fertilizer containing isobutylidene diurea	Product obtained chemically containing isobutylidene diurea and a straight nitrogenous fertilizer [First Schedule List A1 excluding products 3(a), 3(b) and 5]	18 % N expressed as total nitrogen At least 3 % nitrogen in ammoniacal and/or nitric and/or ureic form At least 1/3 of the declared total nitrogen content must derive from isobutylidene diurea Maximum biuret content: (ureic N + isobutylidene diurea N) x 0.026		Total nitrogen For each form amounting to at least 1 %: - nitric nitrogen - ammoniacal nitrogen - ureic nitrogen Nitrogen from isobutylidene diurea
15	Nitrogenous fertilizer containing urea formaldehyde	Product obtained chemically containing urea formaldehyde and a straight nitrogenous fertilizer [First Schedule List A1 excluding products 3(a), 3(b) and 5]	18 % N expressed as total nitrogen At least 3 % nitrogen in ammoniacal and/or nitric and/or ureic form At least 1/3 of the declared total nitrogen content must derive from isobutylidene diurea The nitrogen from the urea formaldehyde must contain at least 1/5 nitrogen that is soluble in hot water Maximum biuret content: (ureic N + urea		Total nitrogen For each form amounting to at least 1 %: - nitric nitrogen - ammoniacal nitrogen - ureic nitrogen Nitrogen from urea formaldehyde Nitrogen from urea formaldehyde that is soluble in cold water Nitrogen from urea formaldehyde that is only soluble in hot water

No	Type designation	Data on method of production and essential ingredients	Minimum content of nutrients (percentage by weight); data on the expression of nutrients; other requirements	Other data on the type designation	Nutrient content to be declared; forms and solubilities of the nutrients; other criteria
1	2	3	4	5	6
16	Ammonium sulphate with nitrification inhibitor (dicyandiamide)	Chemically obtained product containing ammonium sulphate and dicyandiamide	formaldehyde) $\times 0.026$ 20 % N Nitrogen expressed as total nitrogen Minimum ammoniacal nitrogen content: 18 % Minimum content of nitrogen from dicyandiamide: 1.5 %		Total nitrogen Ammoniacal nitrogen Nitrogen from dicyandiamide Technical information ⁽¹⁾
17	Ammonium sulphonitrate with nitrification inhibitor (dicyandiamide)	Chemically obtained product containing ammonium sulphonitrate and dicyandiamide	24 % N Nitrogen expressed as total nitrogen Minimum nitric nitrogen content: 3 % Minimum content of nitrogen from dicyandiamide: 1.5 %		Total nitrogen Nitric nitrogen Ammoniacal nitrogen Nitrogen from dicyandiamide Technical information ⁽¹⁾
18	Urea-ammonium sulphate	Product obtained chemically from urea and ammonium sulphate	30 % N Nitrogen expressed as ammoniacal and ureic nitrogen Minimum ammoniacal nitrogen content: 4 % Minimum sulphur content expressed as sulphur trioxide: 12 % Maximum biuret content: 0.9 %		Total nitrogen Ammoniacal nitrogen Ureic nitrogen Water-soluble sulphur trioxide

¹ Technical information as complete as possible must be provided with each package or bulk consignment by the person responsible for marketing. This information must in particular enable the user to determine the rates and timing of application in relation to the crop being grown.

II. PHOSPHATIC FERTILISERS

Where a particle size criterion is prescribed for the basic constituent materials of fertilisers sold in granular form (fertilisers 1, 3, 4, 5, 6 and 7), it will be established by an appropriate analytical method.

No	Type designation	Data on method of production and essential ingredients	Minimum content of nutrients (percentage by weight); data on the expression of nutrients; other requirements	Other data on the type designation	Nutrient content to be declared; forms and solubilities of the nutrients; other criteria
1	2	3	4	5	6
1	Basic slag - Thomas phosphates - Thomas slag	Product obtained in iron-smelting by treatment of the phosphorus melts and containing calcium silicophosphates as its essential ingredients	12 % P_2O_5 Phosphorus expressed as phosphorus pentoxide soluble in mineral acids, at least 75 % of the declared content of phosphorus pentoxide being soluble in 2 % citric acid; or 10 % P_2O_5 Phosphorus expressed as phosphorus pentoxide soluble in 2 % citric acid Particle size: at least 75 % able to pass through a sieve with a mesh of 0.160 mm, at least 96 % able to pass through a sieve with a mesh of 0.630 mm		Total phosphorus pentoxide (soluble in mineral acids), 75 % of which (to be indicated as % by weight) is soluble in 2 % citric acid; or Total phosphorus pentoxide (soluble in mineral acids) and phosphorus pentoxide soluble in 2 % citric acid; or Phosphorus pentoxide soluble in 2 % citric acid
2 (a)	Normal superphosphate	Product obtained by reaction of ground mineral phosphate with sulphuric acid and containing monocalcium phosphate as an essential ingredient as well as calcium sulphate	16 % P_2O_5 Phosphorus expressed as P_2O_5 soluble in neutral ammonium citrate, at least 93 % of the declared content of P_2O_5 being water-soluble Test sample: 1 g		Phosphorus pentoxide soluble in neutral ammonium citrate Water-soluble phosphorus pentoxide
2 (b)	Concentrated	Product obtained by reaction	25 % P_2O_5		Phosphorus pentoxide

No	Type designation	Data on method of production and essential ingredients	Minimum content of nutrients (percentage by weight); data on the expression of nutrients; other requirements	Other data on the type designation	Nutrient content to be declared; forms and solubilities of the nutrients; other criteria
1	2	3	4	5	6
	superphosphate	of ground mineral phosphate with sulphuric acid and phosphoric acid and containing monocalcium phosphate as an essential ingredient as well as calcium sulphate	Phosphorus expressed as P_2O_5 soluble in neutral ammonium citrate, at least 93 % of the declared content of P_2O_5 being water-soluble Test sample: 1 g		soluble in neutral ammonium citrate Water-soluble phosphorus pentoxide
2 (c)	Triple superphosphate	Product obtained by reaction of ground mineral phosphate with phosphoric acid and containing monocalcium phosphate as its essential ingredient	38 % P_2O_5 Phosphorus expressed as P_2O_5 soluble in neutral ammonium citrate, at least 93 % of the declared content of P_2O_5 being water-soluble Test sample: 3 g		Phosphorus pentoxide soluble in neutral ammonium citrate Water-soluble phosphorus pentoxide
3	Partially solubilized rock phosphate	Product obtained by partial solubilization of ground rock phosphate with sulphuric acid or phosphoric acid, and containing as essential ingredients monocalcium phosphate, tricalcium phosphate and calcium sulphate	20 % P_2O_5 Phosphorus expressed as P_2O_5 soluble in mineral acids, at least 40 % of the declared content of P_2O_5 being water-soluble. Particle size: - at least 90 % able to pass through a sieve with a mesh of 0.160 mm - at least 98 % able to pass through a sieve with a mesh of 0.630 mm		Total phosphorus pentoxide (soluble in mineral acids) Phosphorus pentoxide soluble in water
4	Dicalcium phosphate	Product obtained by precipitation of solubilized phosphoric acid from mineral phosphates or bones, and	38 % P_2O_5 Phosphorus expressed as P_2O_5 soluble in alkaline ammonium citrate		Phosphorus pentoxide soluble in alkaline ammonium citrate

No	Type designation	Data on method of production and essential ingredients	Minimum content of nutrients (percentage by weight); data on the expression of nutrients; other requirements	Other data on the type designation	Nutrient content to be declared; forms and solubilities of the nutrients; other criteria
1	2	3	4	5	6
		containing dicalcium phosphate dihydrate as its essential ingredient	(Petermann). Particle size: - at least 90 % able to pass through a sieve with a mesh of 0.160 mm - at least 98 % able to pass through a sieve with a mesh of 0.630 mm		
5	Calcined phosphate	Product obtained by heat treatment of ground rock phosphate with alkaline compounds and silicic acid, and containing alkaline calcium phosphate and calcium silicate as essential ingredients	25 % P_2O_5 Phosphorus expressed as P_2O_5 soluble in alkaline ammonium citrate (Petermann). Particle size: - at least 75 % able to pass through a sieve with a mesh of 0.160 mm - at least 96 % able to pass through a sieve with a mesh of 0.630 mm		Phosphorus pentoxide soluble in alkaline ammonium citrate
b	Aluminium-calcium phosphate	Product obtained in amorphous form by heat treatment and grinding, containing aluminium and calcium phosphates as essential ingredients	30 % P_2O_5 Phosphorus expressed as P_2O_5 soluble in mineral acids, at least 75 % of the declared content of P_2O_5 being soluble in alkaline ammonium citrate (Joulie). Particle size: - at least 90 % able to pass through a sieve with a mesh of 0.160 mm		Total phosphorus pentoxide (soluble in mineral acids) Phosphorus pentoxide soluble in alkaline ammonium citrate

No	Type designation	Data on method of production and essential ingredients	Minimum content of nutrients (percentage by weight); data on the expression of nutrients; other requirements	Other data on the type designation	Nutrient content to be declared; forms and solubilities of the nutrients; other criteria
1	2	3	4	5	6
7	Soft ground rock phosphate	Product obtained by grinding soft mineral phosphates and containing tricalcium phosphate and calcium carbonate as essential ingredients	- at least 98 % able to pass through a sieve with a mesh of 0.630 mm 25 % P_2O_5 Phosphorus expressed as P_2O_5 soluble in mineral acids, at least 55 % of the declared content of P_2O_5 being soluble in 2 % formic acid. Particle size: - at least 90 % able to pass through a sieve with a mesh of 0.063 mm - at least 99 % able to pass through a sieve with a mesh of 0.125 mm		Total phosphorus pentoxide (soluble in mineral acids) Phosphorus pentoxide soluble in 2 % formic acid Percentage by weight of material able to pass through a sieve with a mesh of 0.063 mm

III. POTASSIC FERTILISERS

No	Type designation	Data on method of production and essential ingredients	Minimum content of nutrients (percentage by weight); data on the expression of nutrients; other requirements	Other data on the type designation	Nutrient content to be declared; forms and solubilities of the nutrients; other criteria
1	2	3	4	5	6
1	Kainit	Product obtained from crude potassium salts	10 % K_2O Potassium expressed as water-soluble K_2O 5 % MgO Magnesium in the form of water-soluble salts, expressed as magnesium oxide	Usual trade names may be added	Water-soluble potassium oxide Water-soluble magnesium oxide
2	Enriched kainit salt	Product obtained from crude potassium salts enriched by blending with potassium chloride	18 % K_2O Potassium expressed as water-soluble K_2O	Usual trade names may be added	Water-soluble potassium oxide Optional mention of the water-soluble magnesium oxide content where higher than 5 % MgO
3	Muriate of potash	Product obtained from crude potassium salts and containing potassium chloride as its essential ingredient	37 % K_2O Potassium expressed as water-soluble K_2O	Usual trade names may be added	Water-soluble potassium oxide
4	Potassium chloride containing magnesium salt	Product obtained from crude potassium salts with added magnesium salts and containing potassium chloride and magnesium salts as essential ingredients	37 % K_2O Potassium expressed as water-soluble K_2O 5 % MgO Magnesium in the form of water-soluble salts, expressed as magnesium oxide		Water-soluble potassium oxide Water-soluble magnesium oxide
5	Sulphate of potash	Product obtained chemically from potassium salts and containing potassium	47 % K_2O Potassium expressed as water-soluble K_2O		Water-soluble potassium oxide Optional mention of the

No	Type designation	Data on method of production and essential ingredients	Minimum content of nutrients (percentage by weight); data on the expression of nutrients; other requirements	Other data on the type designation	Nutrient content to be declared; forms and solubilities of the nutrients; other criteria
1	2	3	4	5	6
		sulphate as its essential ingredient	Maximum chlorine content: 3 % Cl		chlorine content where lower than 3 % Cl
6	Sulphate of potash containing magnesium salt	Product obtained chemically from potassium salts, possibly with addition of magnesium salts, and containing potassium sulphate and magnesium sulphate as essential ingredients	22 % K ₂ O Potassium expressed as water-soluble K ₂ O 8 % MgO Magnesium in the form of water-soluble salts, expressed as magnesium oxide. Maximum chlorine content: 3 % Cl.	Usual trade names may be added	Water-soluble potassium oxide Water-soluble magnesium oxide Optional mention of the chlorine content where lower than 3 % Cl.
7	Kieserite with potassium sulphate	Product obtained from Kieserite with potassium sulphate added	8 % MgO Magnesium expressed as water-soluble MgO 6 % K ₂ O Potassium expressed as water-soluble K ₂ O Total MgO + K ₂ O: 20 % Maximum chlorine content: 3 %	Usual trade names may be added	Water-soluble potassium oxide Water-soluble magnesium oxide Optional mention of the chlorine content where lower than 3 % Cl.

B. LIST OF COMPOUND FERTILISER TYPES

1. NPK FERTILISERS

Type designation	Data on method of production	Minimum content of nutrients (percentage by weight)		Forms, solubilities and nutrient content to be declared as specified in columns 8, 9 and 10; particle size			Data for identification of the fertilisers; other requirements		
		Total	For each of the nutrients	N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O
1	2	3	4	5	6	7	8	9	10
NPK fertiliser	Product obtained chemically or by blending, without addition of organic nutrients of animal or vegetable origin	20 % (N + P ₂ O ₅ + K ₂ O)	3 % N 5 % P ₂ O ₅ 5 % K ₂ O	(1) Total nitrogen (2) Nitric nitrogen (3) Ammoniacal nitrogen (4) Ureic nitrogen (5) Cyanamide nitrogen	(1) Water-soluble P ₂ O ₅ (2) P ₂ O ₅ soluble in neutral ammonium citrate (3) P ₂ O ₅ soluble in neutral ammonium citrate and in water (4) P ₂ O ₅ soluble in mineral acids only (5) P ₂ O ₅ soluble in alkaline ammonium citrate (Pete:mann) (6a) P ₂ O ₅ soluble in mineral acids, of which at least 75 % of the declared P ₂ O ₅ content is soluble in 2 % citric acid (6b) P ₂ O ₅ soluble in 2 % citric acid	Water-soluble K ₂ O	(1) Total nitrogen (2) If any of the forms of nitrogen (2) to (5) amounts to at least 1 % by weight, it must be declared	1. An NPK fertiliser free from Thomas slag, calcined phosphate, aluminium-calcium phosphate, partially solubilized rock phosphate and soft ground rock phosphate must be declared in accordance with the solubilities (1), (2) or (3): - when the water-soluble P ₂ O ₅ does not amount to 2 %, solubility (2) only shall be declared; - when the water-soluble P ₂ O ₅ is at least 2 %, solubility (3)	(1) Water-soluble potassium oxide (2) The indication 'low in chlorine' is linked to a maximum content of 2 % Cl (3) Chlorine content may be declared

Type designation	Data on method of production	Minimum content of nutrients (percentage by weight)		Forms, solubilities and nutrient content to be declared as specified in columns 8, 9 and 10; particle size			Data for identification of the fertilisers; other requirements		
		Total	For each of the nutrients	N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O
1	2	3	4	5	6	7	8	9	10
					(7) P₂O₅ soluble in mineral acids, of which at least 75 % of the declared P₂O₅ content is soluble in alkaline ammonium citrate (Joulie) (8) P₂O₅ soluble in mineral acids, of which at least 55 % of the declared P₂O₅ content is soluble in 2 % formic acid			shall be declared, and the water-soluble P₂O₅ content must be indicated (solubility (1)). The P₂O₅ content soluble in mineral acids only must not exceed 2 %. For this type 1, the test sample for determining solubilities (2) and (3) shall be 1 g. 2(a). An NPK fertiliser containing soft ground rock phosphate or partially solubilised rock phosphate must be free from Thomas slag, calcined phosphate and aluminium-calcium phosphate.	

Type designation	Data on method of production	Minimum content of nutrients (percentage by weight)		Forms, solubilities and nutrient content to be declared as specified in columns 8, 9 and 10; particle size			Data for identification of the fertilisers; other requirements		
		Total	For each of the nutrients	N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O
1	2	3	4	5	6	7	8	9	10
				Particle size of the basic phosphatic ingredients: Thomas slag: at least 75 % able to pass through a sieve with a mesh of 0.160 mm Aluminium-calcium phosphate: at least 90 % able to pass through a sieve with a mesh of 0.160 mm Calcined phosphate: at least 75 % able to pass through a sieve with a mesh of 0.160 mm Soft ground rock phosphate: at least 90 % able to pass through a sieve with a mesh of 0.063 mm Partially solubilized rock phosphate: at least 90 % able to pass through a sieve with a mesh of 0.160 mm			It shall be declared in accordance with solubilities (1), (3) and (4). This type of fertiliser must contain: - at least 2 % P₂O₅ soluble in mineral acids only (solubility (4)); - at least 5 % P₂O₅ soluble in water and neutral ammonium citrate (solubility (3)); - at least 2.5 % water-soluble P₂O₅ (solubility (1)). This type of fertiliser must be marketed under the designation 'NPK fertiliser containing		

Type designation	Data on method of production	Minimum content of nutrients (percentage by weight)		Forms, solubilities and nutrient content to be declared as specified in columns 8, 9 and 10; particle size			Data for identification of the fertilisers; other requirements		
		Total	For each of the nutrients	N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O
1	2	3	4	5	6	7	8	9	10
								soft ground rock phosphate' or 'NPK fertilizer containing partially solubilized rock phosphate'. For this type 2(a), the test sample for determining solubility (3) shall be 3 g.	
								2(b) An NPK fertilizer containing aluminium-calcium phosphate must be free from Thomas slag, calcined phosphate, soft ground rock phosphate and partially solubilized rock phosphate.	
								It shall be declared in accordance with solubilities (1) and (7), the latter applying after deduction of the solubility in water.	

Type designation	Data on method of production	Minimum content of nutrients (percentage by weight)		Forms, solubilities and nutrient content to be declared as specified in columns 8, 9 and 10; particle size			Data for identification of the fertilisers; other requirements		
		Total	For each of the nutrients	N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O
1	2	3	4	5	6	7	8	9	10
								This type of fertilizer must contain: - at least 2 % of water-soluble P₂O₅ (solubility (1)); - at least 5 % of P₂O₅ according to solubility (7). This type of fertilizer must be marketed under the designation 'NPK fertilizer containing aluminium-calcium phosphate'. 2. In the case of NPK fertilizers containing only one of the following types of phosphatic fertilizer: Thomas slag, calcined phosphate,	

Type designation	Data on method of production	Minimum content of nutrients (percentage by weight)		Forms, solubilities and nutrient content to be declared as specified in columns 8, 9 and 10; particle size			Data for identification of the fertilisers; other requirements		
		Total	For each of the nutrients	N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O
1	2	3	4	5	6	7	8	9	10
								aluminium-calcium phosphate, soft ground rock phosphate, the type designation must be followed by an indication of the phosphate ingredient.	
								The declaration of the solubility of the P ₂ O ₅ must be given in accordance with the following solubilities:	
								- for fertilizers based on Thomas slag: solubility (6a) or (6b);	
								- for fertilizers based on calcined phosphate: solubility (5);	
								- for fertilizers	

Type designation	Data on method of production	Minimum content of nutrients (percentage by weight)		Forms, solubilities and nutrient content to be declared as specified in columns 8, 9 and 10; particle size			Data for identification of the fertilisers; other requirements		
		Total	For each of the nutrients	N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O
1	2	3	4	5	6	7	8	9	10
NPK fertilizer containing crotonylidene diurea or isobutylidene diurea or urea formaldehyde (as appropriate)	Product obtained chemically without addition of organic nutrients of animal or vegetable origin and containing crotonylidene diurea or isobutylidene diurea or urea formaldehyde	20 % (N + P ₂ O ₅ + K ₂ O)	5 % N At least ¼ of the declared content of total nitrogen must derive from nitrogen form (5) or (6) or (7). At least 3/5 of the declared nitrogen content (7) must be soluble in hot water	(1) Total nitrogen (2) Nitric nitrogen (3) Ammoniacal nitrogen (4) Ureic nitrogen (5) Nitrogen from crotonylidene diurea (6) Nitrogen from isobutylidene diurea	(1) Water-soluble P ₂ O ₅ (2) P ₂ O ₅ soluble in neutral ammonium citrate (3) P ₂ O ₅ soluble in neutral ammonium citrate and in water	Water-soluble K ₂ O	(1) Total nitrogen (2) If any of the forms of nitrogen (2) to (4) amounts to at least 1 % by weight, it must be declared (3) One of the forms of nitrogen (5) to (7) (as appropriate) Nitrogen form (7) must be declared in the form of	An NPK fertilizer free from Thomas slag, calcined phosphate, aluminium-calcium phosphate, partially solubilised natural phosphate and natural phosphate must be declared in accordance with solubilities (1), (2) or (3); - when the water-soluble P ₂ O ₅ does not amount to 2 %, solubility (2) only shall be declared,	(1) Water-soluble potassium oxide (2) The indication 'low in chlorine' is linked to a maximum content of 2 % Cl (3) Chlorine content may be declared

Type designation	Data on method of production	Minimum content of nutrients (percentage by weight)		Forms, solubilities and nutrient content to be declared as specified in columns 8, 9 and 10; particle size			Data for identification of the fertilisers; other requirements		
		Total	For each of the nutrients	N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O
1	2	3	4	5	6	7	8	9	10
			5 % P ₂ O ₅ 5 % K ₂ O	idene diurea (7) Nitrogen from urea formaldehyde (8) Nitrogen from urea formaldehyde that is only soluble in hot water (9) Nitrogen from urea formaldehyde that is soluble in cold water			nitrogen (8) and (9)	- when the water-soluble P ₂ O ₅ is at least 2 %, solubility (3) shall be declared, and the water-soluble P ₂ O ₅ content must be indicated [solubility (1)]. The P ₂ O ₅ content soluble in mineral acids only must not exceed 2 %. The test sample for determining solubilities (2) and (3) shall be 1 g.	

2. NP Fertilizers

Type designation	Data on method of production	Minimum content of nutrients (percentage by weight)		Forms, solubilities and nutrient content to be declared as specified in columns 8, 9 and 10; particle size			Data for identification of the fertilisers; other requirements		
		Total	For each of the nutrients	N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O
1	2	3	4	5	6	7	8	9	10
NP fertilizer	Product obtained chemically or by blending without addition of organic nutrients of animal or vegetable origin	18 % (N + P ₂ O ₅)	3 % N 5 % P ₂ O ₅	(1) Total nitrogen (2) Nitric nitrogen (3) Ammoniacal nitrogen (4) Ureic nitrogen (5) Cyanamide nitrogen	(1) Water-soluble P ₂ O ₅ (2) P ₂ O ₅ soluble in neutral ammonium citrate (3) P ₂ O ₅ soluble in neutral ammonium citrate and in water (4) P ₂ O ₅ soluble in mineral acids only (5) P ₂ O ₅ soluble in alkaline ammonium citrate (Petermann) (6a) P ₂ O ₅ soluble in mineral acids of which at least 75 % of the declared P ₂ O ₅ content is soluble in 2 % citric acid (6b) P ₂ O ₅ soluble in 2 % citric acid (7) P ₂ O ₅ soluble in			1. An NP fertiliser free from Thomas slag, calcined phosphate, aluminium-calcium phosphate, partially solubilized rock phosphate and soft ground rock phosphate must be declared in accordance with the solubilities (1), (2) or (3): - when the water-soluble P ₂ O ₅ does not amount to 2 %, solubility (2) only shall be declared; - when the water-soluble P ₂ O ₅ is at least 2 %, solubility (3) shall be declared, and	

Type designation	Data on method of production	Minimum content of nutrients (percentage by weight)		Forms, solubilities and nutrient content to be declared as specified in columns 8, 9 and 10; particle size			Data for identification of the fertilisers; other requirements		
		Total	For each of the nutrients	N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O
1	2	3	4	5	6	7	8	9	10
					mineral acids of which at least 75 % of the declared P ₂ O ₅ content is soluble in alkaline ammonium citrate (Joulie) (8) P ₂ O ₅ soluble in mineral acids of which at least 55 % of the declared P ₂ O ₅ content is soluble in 2 % formic acid			the water-soluble P ₂ O ₅ content must be indicated (solubility (1)). The P ₂ O ₅ content soluble in mineral acids only must not exceed 2 %. For this type 1, the test sample for determining solubilities (2) and (3) shall be 1 g. 2(a). An NP fertiliser containing soft ground rock phosphate or partially solubilised rock phosphate must be free from Thomas slag, calcined phosphate and aluminium-calcium phosphate. It shall be declared in accordance with	

Type designation	Data on method of production	Minimum content of nutrients (percentage by weight)		Forms, solubilities and nutrient content to be declared as specified in columns 8, 9 and 10; particle size			Data for identification of the fertilisers; other requirements		
		Total	For each of the nutrients	N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O
1	2	3	4	5	6	7	8	9	10
				<i>Particle size of the basic phosphatic ingredients:</i> Thomas slag: at least 75 % able to pass through a sieve with a mesh of 0.160 mm Aluminium-calcium phosphate: at least 90 % able to pass through a sieve with a mesh of 0.160 mm Calcined phosphate: at least 75 % able to pass through a sieve with a mesh of 0.160 mm Soft ground rock phosphate: at least 90 % able to pass through a sieve with a mesh of 0.063 mm Partially solubilized rock phosphate: at least 90 % able to pass through a sieve with a mesh of 0.160 mm			solubilities (1), (3) and (4). This type of fertiliser must contain: - at least 2 % P₂O₅ soluble in mineral acids only (solubility (4)); - at least 5 % P₂O₅ soluble in water and neutral ammonium citrate (solubility (3)); - at least 2.5 % water-soluble P₂O₅ (solubility (1)). This type of fertiliser must be marketed under the designation 'NP' fertiliser containing soft ground rock phosphate' or 'NP		

Type designation	Data on method of production	Minimum content of nutrients (percentage by weight)		Forms, solubilities and nutrient content to be declared as specified in columns 8, 9 and 10; particle size			Data for identification of the fertilisers; other requirements		
		Total	For each of the nutrients	N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O
1	2	3	4	5	6	7	8	9	10
								fertilizer containing partially solubilized rock phosphate'. For this type 2(a), the test sample for determining solubility (3) shall be 3 g. 2(b) An NP fertilizer containing aluminium-calcium phosphate must be free from Thomas slag, calcined phosphate, soft ground rock phosphate and partially solubilized rock phosphate. It shall be declared in accordance with solubilities (1) and (7), the latter applying after deduction of the solubility in water.	

Type designation	Data on method of production	Minimum content of nutrients (percentage by weight)		Forms, solubilities and nutrient content to be declared as specified in columns 8, 9 and 10; particle size			Data for identification of the fertilisers; other requirements		
		Total	For each of the nutrients	N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O
1	2	3	4	5	6	7	8	9	10
								This type of fertilizer must contain: - at least 2 % of water-soluble P₂O₅ (solubility (1)); - at least 5 % of P₂O₅ according to solubility (7). This type of fertilizer must be marketed under the designation 'NP fertilizer containing aluminium-calcium phosphate'. 3. In the case of NP fertilizers containing only one of the following types of phosphatic fertilizer: Thomas slag, calcined phosphate, aluminium-	

Type designation	Data on method of production	Minimum content of nutrients (percentage by weight)			Forms, solubilities and nutrient content to be declared as specified in columns 8, 9 and 10; particle size			Data for identification of the fertilisers; other requirements		
		Total	For each of the nutrients		N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O
1	2	3	4	5	6	7	8	9	10	
									calcium phosphate, soft ground rock phosphate, the type designation must be followed by an indication of the phosphate ingredient.	
									The declaration of the solubility of the P ₂ O ₅ must be given in accordance with the following solubilities:	
									- for fertilizers based on Thomas slag: solubility (6a) or (6b);	
									- for fertilizers based on calcined phosphate: solubility (5);	
									- for fertilizers based on	

Type designation	Data on method of production	Minimum content of nutrients (percentage by weight)		Forms, solubilities and nutrient content to be declared as specified in columns 8, 9 and 10; particle size			Data for identification of the fertilisers; other requirements		
		Total	For each of the nutrients	N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O
1	2	3	4	5	6	7	8	9	10
NP fertilizer containing crotonyl-idene diurea or isobutyl-idene diurea or urea formaldehyde (as appropriate)	Product obtained chemically without addition of organic nutrients of animal or vegetable origin and containing crotonyl-idene diurea or isobutyl-idene diurea or urea formaldehyde	18 % (N + P ₂ O ₅)	5 % N At least ¼ of the declared content of total nitrogen must derive from nitrogen form (5) or (6) or (7). At least 3/5 of the declared nitrogen content (7) must be soluble in hot water	(1) Total nitrogen (2) Nitric nitrogen (3) Ammoniacal nitrogen (4) Ureic nitrogen (5) Nitrogen from crotonylidene diurea (6) Nitrogen from isobutylidene	(1) Water-soluble P ₂ O ₅ (2) P ₂ O ₅ soluble in neutral ammonium citrate (3) P ₂ O ₅ soluble in neutral ammonium citrate and in water		(1) Total nitrogen (2) If any of the forms of nitrogen (2) to (4) amounts to at least 1 % by weight, it must be declared (3) One of the forms of nitrogen (5) to (7) (as appropriate) Nitrogen form (7) must be declared in the form of nitrogen (8)	aluminium-calcium phosphate: solubility (7); for fertilizers based on soft ground rock phosphate: solubility (8). An NP fertilizer free from Thomas slag, calcined phosphate, aluminium-calcium phosphate, partially solubilised natural phosphate and natural phosphate must be declared in accordance with solubilities (1), (2) or (3): - when the water-soluble P ₂ O ₅ does not amount to 2 %, solubility (2) only shall be declared, when the water-soluble P ₂ O ₅ is	

Type designation	Data on method of production	Minimum content of nutrients (percentage by weight)		Forms, solubilities and nutrient content to be declared as specified in columns 8, 9 and 10; particle size			Data for identification of the fertilisers; other requirements		
		Total	For each of the nutrients	N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O
1	2	3	4	5	6	7	8	9	10
				diurea (7) Nitrogen from urea formaldehyde (8) Nitrogen from urea formaldehyde that is only soluble in hot water (9) Nitrogen from urea formaldehyde that is soluble in cold water			and (9)	at least 2 %, solubility (3) shall be declared, and the water-soluble P ₂ O ₅ content must be indicated [solubility (1)]. The P ₂ O ₅ content soluble in mineral acids only must not exceed 2 %. The test sample for determining solubilities (2) and (3) shall be 1 g.	

3. NK Fertilizers

Type designation	Data on method of production	Minimum content of nutrients (percentage by weight)			Forms, solubilities and nutrient content to be declared as specified in columns 8, 9 and 10; particle size			Data for identification of the fertilisers; other requirements		
		Total	For each of the nutrients		N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O
1	2	3	4		5	6	7	8	9	10
NK Fertilizer	Product obtained chemically or by blending, without addition of organic nutrients of animal or vegetable origin	18 % (N + K ₂ O)	3 % N 5 % K ₂ O		(1) Total nitrogen (2) Nitric nitrogen (3) Ammoniacal nitrogen (4) Ureic nitrogen (5) Cyanamide nitrogen		Water-soluble K ₂ O	(1) Total nitrogen (2) If any of the forms of nitrogen (2) to (5) amounts to at least 1 % by weight, it must be declared		(1) Water-soluble potassium oxide (2) The indication 'low in chlorine' is linked to a maximum content of 2 % Cl (3) Chlorine content may be declared
NK fertilizer containing crotonylidene diurea or isobutyl-	Product obtained chemically without addition of organic nutrients of	18 % (N + K ₂ O)	5 % N At least ¼ of the declared content of total nitrogen		(1) Total nitrogen (2) Nitric nitrogen (3) Ammoniacal		Water-soluble K ₂ O	(1) Total nitrogen (2) If any of the forms of nitrogen (2) to (4) amounts to at		(1) Water-soluble potassium oxide (2) The indication 'low in

Type designation	Data on method of production	Minimum content of nutrients (percentage by weight)		Forms, solubilities and nutrient content to be declared as specified in columns 8, 9 and 10; particle size			Data for identification of the fertilisers; other requirements		
		Total	For each of the nutrients	N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O
1	2	3	4	5	6	7	8	9	10
idene diurea or urea formal- aldehyde (as appropriate)	animal or vegetable origin and containing crotonyl-idene diurea or isobutyl-idene diurea or urea formal-dehyde		must derive from nitrogen form (5) or (6) or (7). At least 3/5 of the declared nitrogen content (7) must be soluble in hot water 5 % K ₂ O	nitrogen (4) Ureic nitrogen (5) Nitrogen from croton-ylidene diurea (6) Nitrogen from isobutyl-idene diurea (7) Nitrogen from urea formal-dehyde (8) Nitrogen from urea formal-dehyde that is only soluble in hot water (9)			least 1 % by weight, it must be declared (3) One of the forms of nitrogen (5) to (7) (as appropriate) Nitrogen form (7) must be declared in the form of nitrogen (8) and (9)		chlorine is linked to a maximum content of 2 % Cl (3) Chlorine content may be declared

Type designation	Data on method of production	Minimum content of nutrients (percentage by weight)		Forms, solubilities and nutrient content to be declared as specified in columns 8, 9 and 10; particle size			Data for identification of the fertilisers; other requirements		
		Total	For each of the nutrients	N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O
1	2	3	4	5	6	7	8	9	10
				Nitrogen from urea formaldehyde that is soluble in cold water					

4. PK Fertilizers

Type designation	Data on method of production	Minimum content of nutrients (percentage by weight)		Forms, solubilities and nutrient content to be declared as specified in columns 8, 9 and 10; particle size		Data for identification of the fertilisers; other requirements			
		Total	For each of the nutrients	N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O
1	2	3	4	5	6	7	8	9	10
PK Fertilizer	Product obtained chemically or by blending, without addition of organic nutrients of animal or vegetable origin	18 % (P ₂ O ₅ + K ₂ O)	5 % P ₂ O ₅ 5 % K ₂ O		(1) Water-soluble P ₂ O ₅ (2) P ₂ O ₅ soluble in neutral ammonium citrate (3) P ₂ O ₅ soluble in neutral ammonium citrate and in water (4) P ₂ O ₅ soluble in mineral acids only (5) P ₂ O ₅ soluble in alkaline ammonium citrate (Petermann) (6a) P ₂ O ₅ soluble in mineral acids of which at least 75 % of the declared P ₂ O ₅ content is soluble in 2 % citric acid (6b) P ₂ O ₅ soluble in 2 % citric acid (7) P ₂ O ₅ soluble in	Water-soluble K ₂ O		1. A PK fertilizer free from Thomas slag, calcined phosphate, aluminium-calcium phosphate, partially solublized rock phosphate and soft ground rock phosphate must be declared in accordance with the solubilities (1), (2) or (3): - when the water-soluble P ₂ O ₅ does not amount to 2 %, solubility (2) only shall be declared; - when the water-soluble P ₂ O ₅ is at least 2 %, solubility (3) shall be declared, and	(1) Water-soluble potassium oxide (2) The indication 'low in chlorine' is linked to a maximum content of 2 % Cl (3) Chlorine content may be declared

Type designation	Data on method of production	Minimum content of nutrients (percentage by weight)		Forms, solubilities and nutrient content to be declared as specified in columns 8, 9 and 10; particle size			Data for identification of the fertilisers; other requirements		
		Total	For each of the nutrients	N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O
1	2	3	4	5	6	7	8	9	10
					mineral acids of which at least 75 % of the declared P ₂ O ₅ content is soluble in alkaline ammonium citrate (Joulie)			the water-soluble P ₂ O ₅ content must be indicated (solubility (1)).	
					(8) P ₂ O ₅ soluble in mineral acids, of which at least 55 % of the declared P ₂ O ₅ content is soluble in 2 % formic acid			The P ₂ O ₅ content soluble in mineral acids only must not exceed 2 %.	
								For this type 1, the test sample for determining solubilities (2) and (3) shall be 1 g.	
								2(a). A PK fertilizer containing soft ground rock phosphate or partially solubilised rock phosphate must be free from Thomas slag, calcined phosphate and aluminium-calcium phosphate. It shall be declared in accordance with	

Type designation	Data on method of production	Minimum content of nutrients (percentage by weight)		Forms, solubilities and nutrient content to be declared as specified in columns 8, 9 and 10; particle size			Data for identification of the fertilisers; other requirements		
		Total	For each of the nutrients	N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O
1	2	3	4	5	6	7	8	9	10
				<i>Particle size of the basic phosphatic ingredients:</i> Thomas slag: at least 75 % able to pass through a sieve with a mesh of 0.160 mm Aluminium-calcium phosphate: at least 90 % able to pass through a sieve with a mesh of 0.160 mm Calcined phosphate: at least 75 % able to pass through a sieve with a mesh of 0.160 mm Soft ground rock phosphate: at least 90 % able to pass through a sieve with a mesh of 0.063 mm Partially solubilized rock phosphate: at least 90 % able to pass through a sieve with a mesh of 0.160 mm			solubilities (1), (3) and (4). This type of fertiliser must contain: - at least 2 % P₂O₅ soluble in mineral acids only (solubility (4)); - at least 5 % P₂O₅ soluble in water and neutral ammonium citrate (solubility (3)); - at least 2.5 % water-soluble P₂O₅ (solubility (1)). This type of fertiliser must be marketed under the designation 'PK fertilizer containing soft ground rock phosphate' or 'PK		

Type designation	Data on method of production	Minimum content of nutrients (percentage by weight)		Forms, solubilities and nutrient content to be declared as specified in columns 8, 9 and 10; particle size			Data for identification of the fertilisers; other requirements		
		Total	For each of the nutrients	N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O
1	2	3	4	5	6	7	8	9	10
								fertilizer containing partially solubilized rock phosphate'. For this type 2(a), the test sample for determining solubility (3) shall be 3 g. 2(b) A PK fertilizer containing aluminium-calcium phosphate must be free from Thomas slag, calcined phosphate, soft phosphate and ground rock phosphate and partially solubilized rock phosphate. It shall be declared in accordance with solubilities (1) and (7), the latter applying after deduction of the solubility in water.	

Type designation	Data on method of production	Minimum content of nutrients (percentage by weight)		Forms, solubilities and nutrient content to be declared as specified in columns 8, 9 and 10; particle size			Data for identification of the fertilisers; other requirements		
		Total	For each of the nutrients	N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O
1	2	3	4	5	6	7	8	9	10
								This type of fertilizer must contain: - at least 2 % of water-soluble P₂O₅ (solubility (1)); - at least 5 % of P₂O₅ according to solubility (7). This type of fertilizer must be marketed under the designation 'PK fertilizer containing aluminium-calcium phosphate'. 4. In the case of PK fertilizers containing only one of the following types of phosphatic fertilizer: Thomas slag, calcined phosphate, aluminium-	

Type designation	Data on method of production	Minimum content of nutrients (percentage by weight)		Forms, solubilities and nutrient content to be declared as specified in columns 8, 9 and 10; particle size			Data for identification of the fertilisers; other requirements		
		Total	For each of the nutrients	N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O
1	2	3	4	5	6	7	8	9	10
								calcium phosphate, soft ground rock phosphate, the type designation must be followed by an indication of the phosphate ingredient.	
								The declaration of the solubility of the P ₂ O ₅ must be given in accordance with the following solubilities:	
								- for fertilizers based on Thomas slag: solubility (6a) or (6b);	
								- for fertilizers based on calcined phosphate: solubility (5);	
								- for fertilizers based on	

Type designation	Data on method of production	Minimum content of nutrients (percentage by weight)		Forms, solubilities and nutrient content to be declared as specified in columns 8, 9 and 10; particle size			Data for identification of the fertilisers; other requirements		
		Total	For each of the nutrients	N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O
1	2	3	4	5	6	7	8	9	10
								aluminium-calcium phosphate: solubility (7); for fertilizers based on soft ground rock phosphate: solubility (8).	

C. FLUID FERTILIZERS
1. STRAIGHT FLUID FERTILIZERS

No.	Type designation	Data on method of production and essential ingredients	Minimum content of nutrients (percentage by weight) data on the expression of nutrients; other requirements	Other data or type designation	Nutrient content to be declared; forms and solubilities of the nutrients; other criteria
(1)	(2)	(3)	(4)	(5)	(6)
1	Nitrogen fertilizer solution	Product obtained chemically and by dissolution in water, in a form stable at atmospheric pressure, without addition of organic nutrients of animal or vegetable origin	Nitrogen expressed as total nitrogen or, if there is only one form, nitric nitrogen or ammoniacal nitrogen or ureic nitrogen. Maximum biuret content: ureic N x 0.026		Total nitrogen and, for any form that amounts to not less than 1 %, nitric nitrogen, ammoniacal nitrogen and/or ureic nitrogen. If the biuret content is less than 0.2 %, the words 'low in biuret' may be added
2	Ammonium nitrate-urea fertilizer solution	Product obtained chemically and by dissolution in water, containing ammonium nitrate and urea	26 % N Nitrogen expressed as total nitrogen, where the ureic nitrogen accounts for about half of the nitrogen present. Maximum biuret content: 0.5 %		Total nitrogen Nitric nitrogen, ammoniacal nitrogen and ureic nitrogen. If the biuret content is less than 0.2 %, the words 'low in biuret' may be added
3	Calcium nitrate solution	Product obtained by dissolving calcium nitrate in water	8 % N Nitrogen expressed as nitrogen in nitric form with a maximum 1 % nitrogen as ammonia	The type designation may be followed, as appropriate, by one of the following indications: - for foliar application - for making nutrient solutions - for ferti-irrigation	Total nitrogen <i>optionally:</i> - nitrogen in nitric form - nitrogen as ammonia - calcium in the case of one of the uses stipulated in column 5

No.	Type designation	Data on method of production and essential ingredients	Minimum content of nutrients (percentage by weight) data on the expression of nutrients; other requirements	Other data or type designation	Nutrient content to be declared; forms and solubilities of the nutrients; other criteria
(1)	(2)	(3)	(4)	(5)	(6)
4	Magnesium nitrate solution	Product obtained chemically and by dissolving magnesium nitrate in water	6 % N Nitrogen expressed as nitric nitrogen 9 % MgO Magnesium expressed as water-soluble magnesium oxide Minimum pH: 4		Nitric nitrogen Water-soluble magnesium oxide
5	Calcium nitrate suspension	Product obtained by suspension of calcium nitrate in water	8 % N Nitrogen expressed as total nitrogen or as nitric and ammoniacal nitrogen Maximum content of ammoniacal nitrogen: 1.0 % 14 % CaO Calcium expressed as water-soluble CaO	The type designation may be followed by one of the following indications: - for foliar application - for making nutrient solutions and suspensions - for fertigation	Total nitrogen Nitric nitrogen Calcium oxide soluble in water
6	Nitrogen fertilizer solution with urea formaldehyde	Product obtained chemically or by dissolution in water of urea formaldehyde and a nitrogenous fertilizer from list A-1, excluding products 3(a), 3(b) and 5	18 % N expressed as total nitrogen At least one third of the declared total nitrogen content must derive from urea formaldehyde Maximum biuret content: (ureic N + urea		Total nitrogen For each form amounting to at least 1 %: - Nitric nitrogen - Ammoniacal nitrogen - Ureic nitrogen Nitrogen from urea

No.	Type designation	Data on method of production and essential ingredients	Minimum content of nutrients (percentage by weight) data on the expression of nutrients; other requirements	Other data or type designation	Nutrient content to be declared; forms and solubilities of the nutrients; other criteria
(1)	(2)	(3)	(4)	(5)	(6)
7	Nitrogen fertilizer suspension with urea formaldehyde	Product obtained chemically or by suspension in water of urea formaldehyde and a nitrogenous fertilizer from list A-1, excluding products 3(a), 3(b) and 5	formaldehyde N) x 0.026 18 % N expressed as total nitrogen At least one third of the declared total nitrogen content must derive from urea formaldehyde of which at least three fifths has to be soluble in hot water Maximum biuret content: (ureic N + urea formaldehyde N) x 0.026		formaldehyde Total nitrogen For each form amounting to at least 1 %: - Nitric nitrogen - Ammoniacal nitrogen - Ureic nitrogen Nitrogen from urea formaldehyde Nitrogen from urea formaldehyde that is soluble in cold water Nitrogen from urea formaldehyde that is only soluble in hot water

2. COMPOUND FLUID FERTILIZERS

Type designation	Data on method of production	Minimum contents of nutrients (percentage by weight)			Form, solubility and nutrient content to be declared as specified in columns 8, 9 and 10				Data for identifying fertilizers Other requirements	
		3	4	5	6	7	8	9	10	
NPK fertilizer solution	Product obtained chemically and by dissolution in water, in a form stable at atmospheric pressure, without addition of organic nutrients of animal or vegetable origin	15 % (N + P ₂ O ₅ + K ₂ O)	2 % N 3 % P ₂ O ₅ 3 % K ₂ O	1. Total nitrogen 2. Nitric nitrogen 3. Ammoniacal nitrogen 4. Ureic nitrogen	Water-soluble P ₂ O ₅	Water-soluble K ₂ O	1. Total nitrogen 2. If any of the forms of nitrogen amounts to not less than 1 % by weight, it must be declared If the biuret content is less than 0.2 %, the words 'low in biuret' may be added	Water-soluble P ₂ O ₅	1. Water-soluble potassium oxide 2. The words 'low in chlorine' may be used only where the Cl content does not exceed 2 % 3. The chlorine content may be declared	
		20 % (N + P ₂ O ₅ + K ₂ O)	3 % N 4 % P ₂ O ₅ 4 % K ₂ O	1. Total nitrogen 2. Nitric nitrogen	1. Water-soluble P ₂ O ₅ 2. P ₂ O ₅ soluble in	Water-soluble K ₂ O	1. Total nitrogen 2. If any of the forms of nitrogen	The fertilizers must not contain Thomas slag.	1. Water-soluble potassium oxide 2. The	
NPK fertilizer suspension	Product in liquid form, in which the nutrients are derived from substances both in suspension in the water and in solution without addition of organic nutrients of animal or vegetable									

Type designation	Data on method of production	Minimum contents of nutrients (percentage by weight) Other requirements		Form, solubility and nutrient content to be declared as specified in columns 8, 9 and 10			Data for identifying fertilizers Other requirements		
		3	4	5	6	7	8	9	10
1	2 origin			3. Ammoniacal nitrogen 4. Ureic nitrogen	neutral ammonium citrate 3. P_2O_5 soluble in neutral ammonium citrate and water		2 to 4 amounts to not less than 1 % by weight, it must be declared If the biuret content is less than 0.2 %, the words 'low in biuret' may be added	aluminium calcium phosphate, calcined phosphates, partially solubilized phosphates or natural phosphates 1. If the water-soluble P_2O_5 is less than 2 %, only solubility 2 shall be declared 2. If the water-soluble P_2O_5 is at least 2 %, solubility 3 and the water-soluble P_2O_5 content	words 'low in chlorine' may be used only where the Cl content does not exceed 2 % 3. The chlorine content may be declared

Type designation	Data on method of production	Minimum content of nutrients (percentage by weight)		Form, solubility and nutrient content to be declared as specified in columns 8, 9 and 10				Data for identifying fertilizers Other requirements	
		3	4	5	6	7	8	9	10
1	2							shall be declared	
NP fertilizer solution	Product obtained chemically and by dissolution in water, in a form stable at atmospheric pressure, without addition of organic nutrients of animal or vegetable origin	18 % (N + P ₂ O ₅)	3 % N 5 % P ₂ O ₅ Maximum biuret content: ureic N x 0.026	1. Total nitrogen 2. Nitric nitrogen 3. Ammoniacal nitrogen 4. Ureic nitrogen	Water-soluble P ₂ O ₅		1. Total nitrogen 2. If any of the forms of nitrogen 2 to 4 amounts to not less than 1 % by weight, it must be declared If the biuret content is less than 0.2 %, the words 'low in biuret' may be added	Water-soluble P ₂ O ₅	
NP fertilizer suspension	Product in liquid form, in which the nutrients are derived from substances both in suspension in the water and in solution without addition of organic nutrients of animal or vegetable origin	18 % (N + P ₂ O ₅)	3 % N 5 % P ₂ O ₅	1. Total nitrogen 2. Nitric nitrogen 3. Ammoniacal	1. Water-soluble P ₂ O ₅ 2. P ₂ O ₅ soluble in neutral ammonium		1. Total nitrogen 2. If any of the forms of nitrogen 2 to 4 amounts to	The fertilizers must not contain Thomas slag, aluminium calcium	

Type designation	Data on method of production		Minimum contents of nutrients (percentage by weight) Other requirements		Form, solubility and nutrient content to be declared as specified in columns 8, 9 and 10			Data for identifying fertilizers Other requirements		
1	2	3	4	5	6	7	8	9	10	
				nitrogen 4. Ureic nitrogen	citrate 3. P ₂ O ₅ soluble in neutral ammonium citrate and water		not less than 1 % by weight, it must be declared If the biuret content is less than 0.2 %, the words 'low in biuret' may be added	phosphate, calcined phosphates, partially solubilized phosphates or natural phosphates 1. If the water-soluble P ₂ O ₅ is less than 2 %, only solubility 2 shall be declared 2. If the water-soluble P ₂ O ₅ is at least 2 %, solubility 3 and the water-soluble P ₂ O ₅ content shall be declared		

Type designation	Date of production	Minimum contents of nutrients (percentage by weight) Other requirements		Form, solubility and nutrient content to be declared as specified in columns 8, 9 and 10			Data for identifying fertilizers Other requirements		
		3	4	5	6	7	8	9	10
1 NK fertilizer solution	2 Product obtained chemically and by dissolution in water, in a form stable at atmospheric pressure, without addition of organic nutrients of animal or vegetable origin	15 % (N + K ₂ O)	3 % N 5 % K ₂ O Maximum biuret content: ureic N x 0.026	1. Total nitrogen 2. Nitric nitrogen 3. Ammoniacal nitrogen 4. Ureic nitrogen		Water-soluble K ₂ O	1. Total nitrogen 2. If any of the forms of nitrogen 2 to 4 amounts to not less than 1 % by weight, it must be declared If the biuret content is less than 0.2 %, the words 'low biuret' may be added		1. Water-soluble potassium oxide 2. The words 'low in chlorine' may be used only where the Cl content does not exceed 2 % 3. The chlorine content may be declared
NK fertilizer suspension	Product in liquid form, in which the nutrients are derived from substances both in suspension in the water and in solution without addition of organic nutrients of animal or vegetable origin	18 % (N + K ₂ O)	3 % N 5 % K ₂ O Maximum biuret content: ureic N x 0.026	1. Total nitrogen 2. Nitric nitrogen 3. Ammoniacal nitrogen		Water-soluble K ₂ O	1. Total nitrogen 2. If any of the forms of nitrogen 2 to 4 amounts to not less than 1 %		1. Water-soluble potassium oxide 2. The words 'low in chlorine' may be used only

Type designation	Data on method of production			Minimum content of nutrients (percentage by weight) Other requirements			Form, solubility and nutrient content to be declared as specified in columns 8, 9 and 10				Data for identifying fertilizers Other requirements		
	2	3	4	5	6	7	8	9	10				
1				4. Ureic nitrogen			by weight, it must be declared If the biuret content is less than 0.2 %, the words 'low in biuret' may be added		where the Cl content does not exceed 2 % 3. The chlorine content may be declared				
PK fertilizer solution	Product obtained chemically and by dissolution in water, in a form stable at atmospheric pressure, without addition of organic nutrients of animal or vegetable origin	18 % (P_2O_5 + K_2O)	5 % P_2O_5 5 % K_2O		Water-soluble P_2O_5	Water-soluble K_2O		Water-soluble P_2O_5	1. Water-soluble potassium oxide 2. The words 'low in chlorine' may be used only where the Cl content does not exceed 2 % 3. The chlorine content may be declared				

Type designation	Data on method of production	Minimum content of nutrients (percentage by weight) Other requirements		Form, solubility and nutrient content to be declared as specified in columns 8, 9 and 10			Data for identifying fertilizers Other requirements		
1	2	3	4	5	6	7	8	9	10
PK fertilizer suspension	Product in liquid form, in which the nutrients are derived from substances both in suspension in the water and in solution without addition of organic nutrients of animal or vegetable origin	18 % (P ₂ O ₅ + K ₂ O)	5 % P ₂ O ₅ 5 % K ₂ O		1. Water-soluble P ₂ O ₅ 2. P ₂ O ₅ soluble in neutral ammonium citrate 3. P ₂ O ₅ soluble in neutral ammonium citrate and water	Water-soluble K ₂ O		1. If the water-soluble P ₂ O ₅ is less than 2 % only solubility 2 will be declared 2. If the water-soluble P ₂ O ₅ is at least 2 % solubility 3 and the water-soluble P ₂ O ₅ content shall be declared The fertilizers must not contain Thomas slag, aluminium calcium	1. Water-soluble potassium oxide 2. The words 'low in chlorine' may be used only where the Cl content does not exceed 2 % 3. The chlorine content may be declared

Type design- ation	Data on method of production	Minimum content of nutrients (percentage by weight) Other requirements		Form, solubility and nutrient content to be declared as specified in columns 8, 9 and 10				Data for identifying fertilizers Other requirements	
		3	4	5	6	7	8	9	10
1	2							phosphate, calcined phosphates, partially solubilized phosphates or natural phosphates	

D. SECONDARY NUTRIENT FERTILIZERS

No	Type designation	Data on method of production and essential ingredients	Minimum content of nutrients (percentage by weight) Data on the expression of nutrients Other requirements	Other data on the type designation	Nutrient content to be declared Solubilities of the nutrients Other criteria
1	2	3	4	5	6
1	Calcium sulphate	Product of natural or industrial origin containing calcium sulphate at various degrees of hydration	25 % CaO 35 % SO ₃ Calcium and sulphur expressed as total CaO + SO ₃ Fineness of grind: - at least 80 % to pass through a sieve with a 2 mm mesh width - at least 99 % to pass through a sieve with a 10 mm mesh width	Usual trade names may be added	Total sulphur dioxide <i>Optional:</i> total CaO
2	Calcium chloride solution	Calcium chloride solution of industrial origin	12 % CaO Calcium expressed as water-soluble CaO		Calcium oxide <i>Optional:</i> for plant spraying
3	Elemental sulphur	Comparatively refined natural or industrial product	98 % S (245 % : SO ₃) Sulphur expressed as total SO ₃		Total sulphur trioxide
4	Kieserite	Product of mineral origin containing monohydrated magnesium sulphate as main component	24 % MgO 45 % SO ₃ Magnesium and sulphur expressed as water-soluble magnesium oxide and sulphur trioxide	Usual trade names may be added	Water-soluble magnesium oxide <i>Optional:</i> water-soluble sulphur trioxide
5	Magnesium sulphate	Product containing heptahydrated magnesium sulphate as main component	15 % MgO 28 % SO ₃ Magnesium and sulphur expressed as water-soluble	Usual trade names may be added	Water-soluble magnesium oxide <i>Optional:</i> water-soluble sulphur trioxide

No	Type designation	Data on method of production and essential ingredients	Minimum content of nutrients (percentage by weight) Data on the expression of nutrients Other requirements	Other data on the type designation	Nutrient content to be declared Solubilities of the nutrients Other criteria
1	2	3	4	5	6
			magnesium oxide and sulphur trioxide		
5.1	Magnesium sulphate solution	Product obtained by dissolution in water of magnesium sulphate of industrial origin	5 % MgO 10 % SO ₃ Magnesium and sulphur expressed as water-soluble magnesium oxide and water-soluble sulphuric anhydride	Usual trade names may be added	Water-soluble magnesium oxide <i>Optional:</i> water-soluble sulphuric anhydride
5.2	Magnesium hydroxide	Product obtained chemically and having as its essential ingredient magnesium hydroxide	60 % MgO Particle size: at least 99 % able to pass through a sieve with a mesh of 0.063 mm		Total magnesium oxide
5.3	Suspension of magnesium hydroxide	Product obtained by suspension of type 5.2	24 % MgO		Total magnesium oxide
6	Magnesium chloride solution	Product obtained by dissolving magnesium chloride of industrial origin	13 % MgO Magnesium expressed as magnesium oxide Maximum calcium content: 3 % CaO		Magnesium oxide

E. TRACE ELEMENT FERTILIZERS

Explanatory note: The following notes are applicable to the whole of part E.

Note 1: A chelating agent may be designated by means of its initials as set out in Part E.

Note 2: If the product leaves no solid residue after being dissolved in water, it may be described as 'for dissolution'.

Note 3: Where a trace element is present in a chelated form, the pH range guaranteeing acceptable stability of the chelated fraction shall be stated.

Section A

Fertilizers containing only one trace element

No	Type designation	Data on method of production and essential ingredients	Minimum content f nutrients (percentage by weight) Data on the expression of nutrients Other requirements	Other data on the type designation	Nutrient content to be declared Solubilities of the nutrients Other criteria
1	2	3	4	5	6

BORON

1a	Boric acid	Product obtained by the action of the acid on a borate	14 % water-soluble B	Usual trade names may be added	Water-soluble boron B
1b	Sodium borate	Product obtained chemically and having as its essential ingredient a sodium borate	10 % water-soluble B	Usual trade names may be added	Water-soluble boron B

No	Type designation	Data on method of production and essential ingredients	Minimum content of nutrients (percentage by weight) Data on the expression of nutrients Other requirements	Other data on the type designation	Nutrient content to be declared Solubilities of the nutrients Other criteria
1	2	3	4	5	6
1c	Calcium borate	Product obtained partly from colemanite or pandermite, and having as its essential ingredient calcium borates	7 % total B Particle size: at least 98 % passing through a 0.063 mm sieve	Usual trade names may be added	Total boron (B)
1d	Boron ethanol amine	Product obtained from the reaction of boric acid with an ethanol amine	8 % water-soluble B		Water-soluble boron (B)
1e	Borated fertilizer in solution	Product obtained by dissolving types 1a and/or 1b and/or 1d	2 % water-soluble B	The designation must include the names of the constituents present	Water-soluble boron (B)
1f	Borated fertilizer in suspension	Product obtained by suspending types 1a and/or 1b and/or 1d in water	2 % water-soluble B	The designation must include the names of the constituents present	Water-soluble boron (B)

No	Type designation	Data on method of production and essential ingredients	Minimum content of nutrients (percentage by weight) Data on the expression of nutrients Other requirements	Other data on the type designation	Nutrient content to be declared Solubilities of the nutrients Other criteria
1	2	3	4	5	6

COBALT

2a	Cobalt salt	Product obtained chemically and having as its essential ingredient a mineral salt of cobalt	19 % water-soluble Co	The designation must include the name of the combined mineral anion	Water-soluble cobalt (Co)
2b	Cobalt chelate	Product obtained by combining cobalt chemically with a chelating agent	2 % water-soluble Co, at least 8/10 of which has been chelated	Nature of the chelating agent	Water-soluble cobalt (Co) Chelated cobalt (Co)
2c	Cobalt fertilizer solution	Product obtained by dissolving types 2a and/or one of the type 2b in water	2 % water-soluble Co	The designation must include: (a) the name(s) of the mineral anion(s); (b) the nature of any chelating agent if present	Water-soluble cobalt (Co) Chelated cobalt (Co) if present

No	Type designation	Data on method of production and essential ingredients	Minimum content of nutrients (percentage by weight) Data on the expression of nutrients Other requirements	Other data on the type designation	Nutrient content to be declared Solubilities of the nutrients Other criteria
1	2	3	4	5	6

COPPER

3a	Copper salt	Product obtained chemically and having as its essential ingredient a mineral salt of copper	20 % water-soluble Cu	The designation must include the name of the mineral anion	Water-soluble copper (Cu)
3b	Copper oxide	Product obtained chemically and having as its essential ingredient copper oxide	70 % total Cu Particle size: at least 98 % passing through a 0.063 mm sieve		Total copper (Cu)
3c	Copper hydroxide	Product obtained chemically and having as its essential ingredient copper hydroxide	45 % total Cu Particle size: at least 98 % passing through a 0.063 mm sieve		Total copper (Cu)
3d	Copper chelate	Product obtained by combining copper chemically with a chelating agent	9 % water-soluble Cu of which at least 8/10 has been chelated	Nature of the chelating agent	Water-soluble copper (Cu) Chelated copper (Cu)
3e	Copper-based fertilizer	Product obtained by mixing types 3a and/or 3b and/or 3c and/or a single one of type 3d and, if required, filler that is neither nutrient nor toxic	5 % total Cu	The designation must include: (a) the name(s) of the copper components; (b) the name of any chelating agent if present	Total copper (Cu) Water-soluble copper (Cu) if this accounts for at least one-quarter of the total copper. Chelated copper (Cu) if present

No	Type designation	Data on method of production and essential ingredients	Minimum content of nutrients (percentage by weight) Data on the expression of nutrients Other requirements	Other data on the type designation	Nutrient content to be declared Solubilities of the nutrients Other criteria
1	2	3	4	5	6
3f	Copper fertilizer solution	Product obtained by dissolving types 3a and/or 3d in water	3 % water-soluble Cu	The designation must include: (a) the name(s) of the mineral anion(s); (b) the name of any chelating agent if present	Water-soluble copper (Cu) Chelated copper (if present)
3g	Copper oxychloride	Chemically-obtained product containing copper oxychloride [$\text{Cu}_2\text{Cl}(\text{OH})_3$] as an essential ingredient	50 % total Cu Particle size: at least 98 % passing through a 0.063 mm sieve		Total copper (Cu)
3h	Copper oxychloride suspension	Product obtained by suspension of type 3g	17 % total Cu		Total copper (Cu)

No	Type designation	Data on method of production and essential ingredients	Minimum content of nutrients (percentage by weight) Data on the expression of nutrients Other requirements	Other data on the type designation	Nutrient content to be declared Solubilities of the nutrients Other criteria
1	2	3	4	5	6

IRON

4a	Iron salt	Chemically obtained product containing a mineral iron salt as its essential ingredient	12 % water-soluble Fe	The designation must include the name of the combined anion	Water-soluble iron (Fe)
4b	Iron chelate	Water-soluble product obtained by combining iron chemically with a chelating agent	5 % water-soluble Fe, at least 8/10 of the declared value of which has been chelated	Nature of the chelating agent	Water-soluble iron (Fe) Chelated iron (Fe)
4c	Iron fertilizer solution	Product obtained by dissolving types 4a and/or one of the type 4b in water	2 % water-soluble Fe	The designation must include: (a) the name(s) of the mineral anion(s); (b) the name of any chelating agent if present	Water-soluble iron (Fe) Chelated iron (Fe) if present

No	Type designation	Data on method of production and essential ingredients	Minimum content of nutrients (percentage by weight) Data on the expression of nutrients Other requirements	Other data on the type designation	Nutrient content to be declared Solubilities of the nutrients Other criteria
1	2	3	4	5	6

MANGANESE

5a	Manganese salt	Chemically obtained product containing a mineral manganese salt (Mn II) as its essential ingredients	17 % water-soluble Mn	The designation must include the name of the combined anion	Water-soluble manganese (Mn)
5b	Manganese chelate	Water-soluble product obtained by combining manganese chemically with a chelating agent	5 % water-soluble Mn, at least 8/10 of the declared value of which has been chelated	Name of the chelating agent	Water-soluble manganese (Mn) Chelated manganese (Mn)
5c	Manganese oxide	Chemically obtained product containing manganese oxides as essential ingredients	40 % total Mn Particle size: at least 80 % passing through a 0.063 mm sieve		Total manganese (Mn)
5d	Manganese-based fertilizer	Product obtained by mixing types 5a and 5c	17 % total Mn	The designation must include the name of the manganese components	Total manganese (Mn) Water-soluble manganese (Mn) if this accounts for at least one-quarter of the total manganese
5e	Manganese-based fertilizer solution	Product obtained by dissolving types 5a and/or one of the type 5b in water	3 % water-soluble Mn	The designation must include: (a) the name(s) of the mineral anion(s); (b) the name of any chelating agent if present	Water-soluble manganese (Mn) Chelated manganese (Mn) if present

No	Type designation	Data on method of production and essential ingredients	Minimum content of nutrients (percentage by weight) Data on the expression of nutrients Other requirements	Other data on the type designation	Nutrient content to be declared Solubilities of the nutrients Other criteria
1	2	3	4	5	6

MOLYBDENUM

6a	Sodium molybdate	Product obtained chemically and having as its essential ingredient sodium molybdate	35 % water-soluble Mo		Water-soluble molybdenum (Mo)
6b	Ammonium molybdate	Product obtained chemically and having as its essential ingredient ammonium molybdate	50 % water-soluble Mo		Water-soluble molybdenum (Mo)
6c	Molybdenum-based fertilizer	Product obtained by mixing types 6a and 6b	35 % water-soluble Mo	The designation must include the names of the molybdenum components	Water-soluble molybdenum (Mo)
6d	Molybdenum-based fertilizer solution	Product obtained by dissolving types 6a and/or one of the type 6b in water	3 % water-soluble Mo	The designation must include the names of the molybdenum components	Water-soluble molybdenum (Mo)

No	Type designation	Data on method of production and essential ingredients	Minimum content of nutrients (percentage by weight) Data on the expression of nutrients Other requirements	Other data on the type designation	Nutrient content to be declared Solubilities of the nutrients Other criteria
1	2	3	4	5	6

ZINC

7a	Zinc salt	Product obtained chemically and having as its essential ingredient a mineral salt of zinc	15 % water-soluble Zn	The designation must include the name of the mineral anion	Water-soluble zinc (Zn)
7b	Zinc chelate	Product obtained by combining zinc chemically with a chelating agent	5 % water-soluble Zn, at least 8/10 of the declared content of which has been chelated	Name of the chelating agent	Water-soluble zinc (Zn) Chelated zinc (Zn)
7c	Zinc oxide	Product obtained chemically and having as its essential ingredient zinc oxide	70 % total Zn Particle size: at least 80 % passing through a 0.063 mm sieve		Total zinc (Zn)
7d	Zinc-based fertilizer	Product obtained by mixing types 7a and 7c	30 % total Zn	The designation must include the name of the zinc components present	Total zinc (Zn) Water-soluble zinc (Zn) if this accounts for at least one-quarter of the total zinc (Zn)
7e	Zinc-based fertilizer solution	Product obtained by dissolving types 7a and/or one of type 7b in water	3 % water-soluble Zn	The designation must include: (a) the name(s) of the mineral anion(s); (b) the name of any chelating agent if present	Water-soluble zinc (Zn) Chelated zinc (Zn) if present

Section B

Minimum Trace Element Content, Percentage Weight of Fertilizer

Solid or Fluid Mixtures of Trace Elements

	Where the trace element is present in a form that is:	
	<i>exclusively mineral</i>	<i>chelated or complexed</i>
For a trace element:		
Boron (B)	0.2	0.2
Cobalt (Co)	0.02	0.02
Copper (Cu)	0.5	0.1
Iron (Fe)	2.0	0.3
Manganese (Mn)	0.5	0.1
Molybdenum (Mo)	0.02	-
Zinc (Zn)	0.5	0.1

Minimum total of trace elements in a solid mixture: 5 % by mass of the fertilizer.

Minimum total of trace elements in a fluid mixture: 2 % by mass of the fertilizer.

Section C

Minimum Trace Element Content, Percentage Weight of Fertilizer

EC Fertilizers containing Major and/or Secondary Elements with Trace Elements applied to the Soil

	<i>For crops or grassland</i>	<i>For horticultural use</i>
Boron (B)	0.01	0.01
Cobalt (Co)	0.002	-
Copper (Cu)	0.01	0.002
Iron (Fe)	0.5	0.02
Manganese (Mn)	0.1	0.01
Molybdenum (Mo)	0.001	0.001
Zinc (Zn)	0.01	0.002

Section D

Minimum Trace Element Content, Percentage Weight of Fertilizer

EC Fertilizers containing Major and/or Secondary Elements with Trace Elements for Leaf Sprays

Boron (B)	0.01
Cobalt (Co)	0.002
Copper (Cu)	0.002
Iron (Fe)	0.02
Manganese (Mn)	0.01
Molybdenum (Mo)	0.001
Zinc (Zn)	0.002

Section E

List of Authorized Organic Complexing Agents for Trace Elements

Definition of complexed trace elements:

Within the meaning of these Regulations, complexed trace elements are defined as combinations where the metal is present in the form of:

- a chelated product
- a complexed product

Authorized product:1. *Chelating agents:*

Sodium, potassium or ammonium acid or normal salts of:

ethylene diamine tetraacetic acid (EDTA); $C_{10}H_{16}O_8N_2$
 ethylene triamine pentaacetic acid (DPTA); $C_{14}H_{23}O_{10}N_3$
 ethylene diamine-di (o-hydroxyphenyl acetic) acid (EDDHA); $C_{18}H_{20}O_6N_2$
 hydroxy-2-ethylene diamine triacetic acid (HEEDTA); $C_{10}H_{18}O_7N_2$
 ethyldiamine-di (o-hydroxy p-methyl phenyl) acetic acid (EDDHMA); $C_{20}H_{24}N_2O_6$
 ethylene diamine di (5-carboxy-2-hydroxyphenyl) acetic acid (EDDCHA); $C_{20}H_{20}O_{10}N_2$

2. *Complexing agents (*)*

* List to be drawn up.

SECOND SCHEDULE

Provisions concerning Identification and Labelling

1. Compulsory identification markings

- (a) The words 'EC FERTILIZER' in capital letters.
- (b) The designation of the type of fertilizer, in accordance with the First Schedule, and the numbers indicating the nutrient content which, for compound fertilizers, should be in the order laid down by the said designation.
- (c) The declared content in respect of each nutrient; and the declared content expressed as forms and/or solubilities where those are specified in the First Schedule.

The nutrient content for straight and compound fertilizers must be given as a percentage by weight, as whole numbers or, where necessary, to one decimal place and for compound fertilizers in the following order: N, P_2O_5 and/or P, K_2O and/or K.

The additional information on the fertilizing components of fluid fertilizers may be expressed in approximately equivalent terms of weight versus volume (kilograms per hectolitre or grams per litre).

Quantities of a fluid fertilizer shall be expressed by mass. The expression of quantities of fluid fertilizers by volume shall be optional.

The forms and solubilities of the nutrients must also be expressed as a percentage by weight of fertilizer, except where the First Schedule explicitly provides that this content shall be otherwise expressed.

Nutrients must be indicated both in words and by the appropriate chemical symbols (e.g. nitrogen (N), phosphorus (P), phosphorus pentoxide (P_2O_5), potassium (K), potassium oxide (K_2O), magnesium (Mg), magnesium oxide (MgO)).

- (d) Guaranteed net or gross weight.

If the gross weight is given, the tare weight must be indicated beside it.

- (e) The name or trade name or trademark and the address of the person responsible for marketing the fertilizer, established within Malta or within the European Community.

2. Labelling requirements

- (a) The labels or markings printed on the package and giving the particulars mentioned under 1 must be placed in a conspicuous position. Attached labels must be held in place by whatever system is used for closing the package. If this system consists of a lead or other type of seal, the seal must bear the name or mark of the person responsible referred to under 1(e).
- (b) The markings referred to in paragraph 1 must be and must remain indelible and clearly legible.
- (c) In the cases referred to in paragraph 3.3 of these Regulations, a copy of the documents containing the identification markings must accompany the goods and be accessible for inspection purposes.

THIRD SCHEDULE

Tolerances

- (a) The tolerances given in this Schedule are the permitted deviation of the measured value of a nutrient from its declared value.
- (b) They are intended to accommodate variations in manufacturing, sampling and analysis.
- (c) No tolerances are allowed in respect of the minimum and maximum contents specified in the First Schedule.
- (d) Where no maximum is given there are no restrictions on excess of nutrient above the declared amount.
- (e) The tolerance allowed in respect of the declared nutrient contents in the various types of fertilizer are as follows:

A. STRAIGHT FERTILIZERS	<i>absolute value in percentage by weight expressed as N, P₂O₅, K₂O, MgO, Cl</i>
<i>I. Nitrogenous fertilizers</i>	
calcium nitrate	0.4
calcium nitrate suspension	0.4
calcium-magnesium nitrate	0.4
sodium nitrate	0.4
chile nitrate	0.4
calcium cyanamide	1.0
nitrogenous calcium cyanamide	1.0
ammonium sulphate	0.3
ammonium nitrate or calcium ammonium nitrate:	
- up to and including 32 %	0.8
- more than 32 %	0.6
ammonium sulphate-nitrate	0.8
ammonium nitrate-urea solution	0.6
magnesium sulphonitrate	0.8
magnesium ammonium nitrate	0.8
urea	0.4
urea-ammonium sulphate	0.5
nitrogen fertilizer solution	0.6
nitrogen fertilizer solution with urea formaldehyde	0.4
nitrogen fertilizer suspension with urea formaldehyde	0.4

2. Phosphatic fertilizers	
Thomas slag:	
- declaration expressed as a range of 2 % by weight	0
- declaration expressed as a single number	1.0
Other phosphatic fertilizers:	
P ₂ O ₅ solubility in: (number of fertilizer in the First Schedule)	
- mineral acid (3, 6, 7)	0.8
- formic acid (7)	0.8
- neutral ammonium citrate (2a, 2b, 2c)	0.8
- alkaline ammonium citrate (4, 5, 6)	0.8
- water (2a, 2b, 3)	0.9
- water (2c)	1.3
3. Potassic fertilizers	
kainit	1.5
enriched kainit salt	1.0
muriate of potash:	
- up to and including 55 %	1.0
- more than 55 %	0.5
potassium chloride containing magnesium salt	1.5
sulphate of potash	0.5
sulphate of potash containing magnesium salt	1.5
other components	
magnesium oxide	0.9
chlorine	0.2
B. COMPOUND FERTILIZERS	
1. Nutrient elements	
- N	1.1
- P ₂ O ₅	1.1
- K ₂ O	1.1
2. Total negative deviations from the declared value	
- binary fertilizers	1.5
- ternary fertilizers	1.9

- (f) The tolerance allowed in respect of the declared content for the various forms of nitrogen or the declared solubilities of phosphorus pentoxide is one-tenth of the overall content of the nutrient concerned with a maximum of 2 % by weight, provided that the overall content of that nutrient remains within the limit specified in the First Schedule and the tolerances specified in paragraph (c) above.