

## EUROPEAN COMMUNITIES (MARKETING OF FERTILISERS) REGULATIONS 1994

I, JOE WALSH, Minister for Agriculture, Food and Forestry, in exercise of the powers conferred on me by section 3 of the European Communities Act, 1972 (No. 27 of 1972), and for the purpose of giving effect to Commission Directive No. 93/69/EEC of 23 July 1993(1) hereby make the following Regulations:

(1)O.J. No. L.185 of 28.7.1993 p.30.

### REG 1

1. (1) These Regulations may be cited as the European Communities (Marketing of Fertilisers) (Amendment) Regulations, 1994.
- (2) The European Communities (Marketing of Fertilisers) Regulations, 1978 to 1993 and these Regulations may be cited as the European Communities (Marketing of Fertilisers) Regulations, 1978 to 1994.
- (3) The Regulations shall come into operation on the 1st day of June 1994.

### REG 2

2. In these Regulations "The Principal Regulations" means the European Communities (Marketing of Fertilisers) Regulations, 1978.

### REG 3

3. Regulation 2 of the Principal Regulations is hereby amended by the substitution of the following for the definition of "the directive":—  
" "the directive" means Council Directive No. 76/116/EEC of 18 December 1975(2), as amended by Council Directive No. 88/183/EEC of 22 March 1988(3), Council Directive No. 89/284/EEC of 13 April 1989(4), Council Directive No. 89/530/EEC of 18 September 1989(5) and Commission Directive No. 93/69/EEC of 23 July 1993;"
- (2)O.J. No. L.24 of 30.1.1976 p.21.
- (3)O.J. No. L.83 of 29.3.1988 p.33.
- (4)O.J. No. L.111 of 22.4.1989 p.34.
- (5)O.J. No. L.281 of 30.9.1989 p.116.

### REG 4

4. References in the European Communities (Marketing of Fertilisers) Regulations, 1991 (S.I. No. 284 of 1991) to Annex 1 to the Directive of April 1989 and to the Annex to the Directive of September 1989 shall be construed as references to Parts D and E of Part 1 of the Schedule to the Principal Regulations as amended by these Regulations.

### REG 5

5. Part 1 of the Schedule to the Principal Regulations is hereby amended by
  - (i) the addition to the fertilisers listed under the headings "A. STRAIGHT FERTILISERS"
    1. NITROGENOUS FERTILISERS"

of the entry headed "1. Nitrogenous Fertilisers" as set out in the Schedule to these Regulations.

and

(ii) the addition to the fertilisers listed under the headings

"B. COMPOUND FERTILISER TYPES

1. NPK FERTILISERS"

of the entry headed "1. NPK Fertilisers" as set out in the

Schedule to these Regulations

and

(iii) the addition to the fertilisers listed under the headings

"B COMPOUND FERTILISER

2. NP. FERTILISERS"

of the entry headed "2. NP Fertilisers" as set out in the Schedule

to these Regulations

and

(iv) the addition to the fertilisers listed under the headings

"B COMPOUND FERTILISER

3. NK. FERTILISERS"

of the entry headed "3 NK. Fertilisers" as set out in the Schedule

to these Regulations

and

(v) the addition to the fertilisers listed under the headings

"C. FLUID FERTILISERS

1. STRAIGHT FLUID FERTILISERS"

of the entry headed "1. STRAIGHT FLUID FERTILISERS" as set out in

the Schedule to these Regulations

and

(vi) the insertion after the entry headed

"C. COMPOUND FERTILISER TYPES" of the entry headed

"D. SECONDARY NUTRIENT FERTILISERS"

as set out in the Schedule to these Regulations

and

(vii) the insertion after the entry headed "D SECONDARY NUTRIENT

FERTILISERS" of the entry headed "E. TRACE ELEMENT FERTILISERS" as

set out in the Schedule to these Regulations.

## REG 6

6. The amounts of fines specified in Regulations 4 (5), 6 (2), 7 (3), 10 and 11 (4) of the Principal Regulations are hereby increased to £1,000 in each case.

## SCHEDULE.

### 1. Nitrogenous Fertilisers.

Number	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	
123456	l.c.	Magnesium nitrate	Chemically obtained product containing as its essential ingredient hexahydrated magnesium nitrate	10% N	Nitrogen expressed as nitric nitrogen.	8.4% Mg	Magnesium expressed as water soluble magnesium	When marketed in the form of crystals a note 'in crystalized form' may be added	Nitric nitrogen	Water-soluble

magnesium10.Crotonylidene diureaProduct obtained by reaction of urea with crotonaldehyde Monomeric compound28% 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 diurea11.Isobutylidene diureaProduct obtained by reaction of urea with isobutyraldehyde Monomeric compounds28% 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

NumberType designationData on method of production and essential ingredientsMinimum content of nutrients (percentage by weight)

Data on the expression of nutrients

Other requirementsOther data on the type designationNutrient content to be declared Forms and solubilities of the nutrients Other

criteria12345612.Urea formaldehydeProduct obtained by reaction of urea with formaldehyde and containing as its essential ingredients

molecules of urea formaldehyde Polymeric compound36% total nitrogen Nitrogen expressed as total nitrogen

At least 3/5th of the declared total nitrogen content must be soluble in hot water

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 soluble in cold

waterNitrogen from formaldehyde urea that is only soluble in hot water13.Nitrogenous fertiliser containing crotonylidene diureaProduct

obtained chemically containing crotonylidene diurea and a straight nitrogen fertiliser (List A-1 in Directive 76/116/EEC, 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 1/3rd of the declared total nitrogen content must be derived from crotonylidene diurea.

Maximum biuret content: (ureic N + crotonylidene diurea N) x 0.026.Total nitrogen. For each form amounting to at least 1%:

nitric nitrogen ammoniacal nitrogen

ureic nitrogen Nitrogen from crotonylidene diurea.

NumberType designationData on method of production and essential ingredientsMinimum content of nutrients (percentage by weight)

Data on the expression of nutrients

Other requirementsOther data on the type designationNutrient content to be declared Forms and solubilities of the nutrients Other

criteria12345614.Nitrogenous fertiliser containing isobutylidene diurea.Product obtained chemically containing isobutylidene diurea and

a straight nitrogenous fertiliser (List A-1 in Directive 76/116/EEC, 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 1/3rd 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.

Number 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 12345615. Nitrogenous fertiliser containing urea formaldehyde. Product obtained chemically containing urea formaldehyde and a straight nitrogenous fertiliser. (List A-1 in Directive 76/116/EEC, excluding products 3(a), 3(b) and 5). 18% N expressed as total nitrogen. At least 3% nitrogen in ammoniacal and/or ureic form. At least 1/3rd of the declared total nitrogen content must derive from urea formaldehyde. The nitrogen from the urea formaldehyde must contain at least 3/5ths nitrogen that is soluble in hot water. Maximum biuret content: (Ureic N + urea formaldehyde) x 0.026. 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. 16. Ammonium sulphate with nitrification inhibitor (dicyandiamide). Chemically obtained product containing ammonium sulphate and dicyandiamide 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).

Number 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 12345617. Ammonium sulphonitrate with nitrifica-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).

(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.

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, 10

Particle size Data for identification of the fertilisers

Other requirements Total For each of the nutrients NPK NPK 12345678910 NPK

fertiliser 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+K)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 2.18% P

4.15% K.(1) Total nitrogen.

(2) Nitric nitrogen.

(3) Ammoniacal nitrogen.

(4) Ureic nitrogen.

(5) Nitrogen from crotonylidene diurea.

(6) Nitrogen from isobutylidene diurea.

(7) Nitrogen from urea formaldehyde.(1) Water-P.soluble.

(2) P, soluble in neutral ammonium citrate.

(3) P, soluble in neutral ammonium citrate and in water. Water-soluble

K.(1) Total nitrogen.

(2) If any of 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) and (9). An NPK fertiliser free from Thomas slag, calcined phosphate, aluminium-calcium phosphate, partially solubilized natural phosphate and natural phosphate must be declared in accordance with solubilities

(1), (2) or (3):(1) Water soluble potassium.

(2) The indication 'low in chlorine' is linked to a maximum content of 2% Cl.

(3) Chlorine content must be declared.

\*20% (N+P+K) to be calculated by multiplying the nutrient contents N, P and K by 1, 2.29 and 1.2 respectively and adding the results.

#### Type designation

Data on method of production Minimum contents of nutrients (percentage by weight) Forms, solubilities and nutrient content to be declared as specified in columns 8, 9, 10

Particle size Data for identification of the fertilisers

Other requirements Total For each of the nutrients NPK NPK 12345678910(8)

Nitrogen from urea formaldehyde that is only soluble in hot water.

(9) Nitrogen from urea formaldehyde that is soluble in cold water.— when the water soluble P does not amount to 2%, solubility (2) only shall be declared.

— when the water-soluble P content must be indicated [solubility (1)].

#### 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, 10

Particle size Data for identification of the fertilisers

Other requirements Total For each of the nutrients NPK NPK 12345678910 The P 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 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, 10

Particle size Data for identification of the fertilisers

Other requirements Total For each of the nutrients NPK NPK 12345678910 NP

fertiliser 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 of isobutylidene diurea of urea formaldehyde. 18%\* (N+P) 5% N. At least ¼ of the declared content of total nitrogen must derive from nitrogen form (5) or (6) or (7).

At least 3/5ths of the declared nitrogen content (7) must be soluble in hot water 2. 18% P (1) Total nitrogen.

(2) Nitric nitrogen.

(3) Ammoniacal nitrogen.

(4) Ureic nitrogen.

(5) Nitrogen from crotonylidene diurea.

(6) Nitrogen from isobutylidene diurea.

(7) Nitrogen from urea formaldehyde. (1) Water-soluble P.

(2) P soluble in neutral ammonium citrate.

(3) P soluble in neutral ammonium citrate and in water. (1) Total nitrogen.

(2) If any of 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) and (9). An NP fertiliser free from Thomas slag, calcined phosphate, partially solubilized natural phosphate and natural phosphate must be declared in accordance with solubilities (1), (2) or (3):

\*18% (N+P) to be calculated by multiplying the nutrient contents N & P by 1 and 2.29 respectively and adding the results.

#### 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 NPK NPK 12345678910 (8)

Nitrogen from urea formaldehyde that is only soluble in hot water.

(9) Nitrogen from urea formaldehyde that is soluble in cold water.— when the water soluble P, does not amount to 2%, solubility (2) only shall be declared.

— when the water-soluble P is at least 2% solubility (3) shall be declared, and the water-soluble P content must be indicated [solubility (1)].

#### 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 sizeData for identification of the fertilisers

Other requirementsTotalFor each of the nutrientsNPKNPK12345678910The P content soluble in mineral acids only must not exceed 2%. The test sample for determining solubilities (2) and (3) shall be 1g.

3. NK Fertilisers.

Type designation

Data on method of productionMinimum content of nutrients (percentage by weight)Forms, solubilities and nutrient content to be declared as specified in columns 8, 9, and 10

Particle sizeData for identification of the fertilisers

Other requirementsTotalFor each of the nutrientsNPKNPK12345678910NK

fertiliser 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.18%\* (N+K)5% N. At least ¼ of the declared content of total nitrogen must derive from nitrogen form (5) or (6) or (7).

At least 3/5ths of the declared nitrogen content (7) must be soluble in hot water 4.15% K(1) Total nitrogen.

(2) Nitric nitrogen.

(3) Ammon-iacal nitrogen.

(4) Ureic nitrogen.

(5) Nitrogen from crotonylidene diurea.

(6) Nitrogen from isobutylidene diurea.

(7)Nitrogen from urea formaldehyde.Water-soluble K.(1) Total nitrogen.

(2) If any of 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) and (9).(1) Water soluble potassium.

(2)The indication 'low in chlorine' is linked to a maximum content of 2% Cl.

(3) Chlorine content may be declared.

\*18% (N + K) to be calculated by multiplying the nutrient contents N and K by 1 and 1.2 respectively and adding the results.

Type designation

Data on method of productionMinimum content of nutrients (percentage by weight)Forms, solubilities and nutrient content to be declared as specified in columns 8, 9, and 10

Particle sizeData for identification of the fertilisers

Other requirementsTotalFor each of the nutrientsNPKNPK12345678910(8)

Nitrogen from urea formal-dehyde that is only soluble in hot water.

(9) Nitrogen from urea formal-dehyde that is soluble in cold water.

1. Straight Fluid Fertilisers.

NumberType DesignationData on method of production and essential ingredientsMinimum 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.1234564Magnesium nitrate  
SolutionProduct obtained chemically and by dissolving magnesium nitrate  
in water.6% N.  
Nitrogen expressed as nitric nitrogen.  
5.4 Mg.  
Magnesium expressed as water-soluble magnesium oxide Minimum pH:  
4.Nitric nitrogen.  
Water-soluble magnesium.  
D. Secondary Nutrient Fertilisers.

NumberType DesignationData on method of production and essential  
ingredientsMinimum 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.1234561.Calcium sulphate.Product of natural or industrial  
origin containing calcium sulphate at various degrees of  
hydration.17.85% Ca.  
14% S.  
Calcium and sulphur expressed as total Ca+ S. 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 Optional: total  
Ca.2.Calcium chloride solution.Calcium chloride solution of industrial  
origin.8.57% Ca.  
Calcium expressed as water-soluble Ca.Calcium.  
Optional: for plant spraying.3.Elemental Sulphur.Comparatively refined  
natural or industrial product.98% S.  
Sulphur expressed as total S.Total sulphur.

NumberType designationData on method of production and essential  
ingredientsMinimum content of nutrients (percentage by weight)  
Data on the expression of nutrients  
Other requirementsOther data on the type designationNutrient content  
to be declared Forms and solubilities of the nutrients Other  
criteria1234564.Kieserite.Product of mineral origin containing  
monohydrated magnesium sulphate as main component.14.4% Mg.  
18% S.  
Magnesium and sulphur expressed as water-soluble Magnesium and  
Sulphur.Usual trade names may be added.Water soluble magnesium.  
Optional: water-soluble sulphur.5.Magnesium sulphate.Product containing  
heptahydrated magnesium sulphate as main component.9% mg.  
11.2% S.  
Magnesium and sulphur expressed as water-soluble magnesium and  
sulphur.Usual trade names may be added.Water-soluble magnesium.  
Optional: water-soluble sulphur.5.1Magnesium sulphate solution.Product  
obtained by dissolution in water of magnesium sulphate of industrial  
origin.3% Mg.  
4% S.  
Magnesium and sulphur expressed as water-soluble Magnesium and  
water-soluble Sulphur.Usual trade names may be added.Water-soluble  
magnesium.  
Optionally: water-soluble sulphur.6.Magnesium chloride solution.Product  
obtained by dissolving magnesium chloride of industrial origin.7.8%

Mg. Magnesium expressed as magnesium. Maximum calcium content: 2.14%.Magnesium.

E. Trace Element Fertilisers.

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

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

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

CHAPTER A.

Fertilisers containing only one trace element.

NumberType DesignationData on method of production and essential ingredientsMinimum 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.123456Boron1aBoric acid.Product obtained by the action of an acid on a borate.14% water-soluble B.The usual trade names may be added.Water-soluble boron (B).1b.Sodium borate.Chemically obtained product containing as its essential component a sodium borate. 10% water-soluble B.The usual trade names may be added.Water-soluble boron (B).1c.Calcium borate.Product obtained from colemanite or pandermite containing as its essential ingredient calcium borates. 7% total B.

Particle size: at least 98% passing through a 0.063 mm sieve.The usual trade names may be added.Total boron (B).

NumberType designationData on method of production and essential ingredientsMinimum content of nutrients (percentage by weight)

Data on the expression of nutrients

Other requirementsOther data on the type designationNutrient content to be declared Forms and solubilities of the nutrients Other

criteria1234561d.Boron ethanol amine.Product obtained by reacting a boric acid with an ethanol amine.8% water-soluble B.Water-soluble boron (B).1e.Borated fertiliser 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 fertiliser 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).Cobalt.2a.Cobalt salt.Chemically obtained product containing a mineral salt of cobalt as its essential ingredient.19% water-soluble Co.The designation must include the name of the mineral anion.Water-soluble cobalt (Co).

2bCobalt chelate.Water-soluble product obtained by combining cobalt chemically with a chelating agent.2% water-soluble Co, at least 8/10 of the declared value of which has been chelated.Name of the chelating agent. Water-soluble cobalt (Co) Chelated cobalt (Co)2c.Cobalt fertiliser 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 name of any chelating agent if present.Water-soluble cobalt (Co). Chelated cobalt (Co) if present.Copper.3a.Copper salt.Chemically

obtained product containing a mineral salt of copper as its essential ingredient. 20% water-soluble Cu. The designation must include the name of the mineral anion. Water-soluble copper (Cu). 3b. Copper oxide. Chemically obtained product containing copper oxide as its essential ingredient. 70% total Cu. Particle size: at least 98% passing through a 0.063 mm sieve. Total copper (Cu).

Number 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 1234563c. Copper hydroxide. Chemically obtained product containing copper hydroxide as its essential ingredient. 45% total Cu. Particle size: at least 98% passing through a 0.063 mm sieve. Total copper (Cu). 3d. Copper chelate. Water-soluble product obtained by combining copper chemically with a chelating agent. 9% water-soluble Cu, at least 8/10 of the declared value of which has been chelated. Name of the chelating agent. Water-soluble copper (Cu) chelated copper (Cu). 3e. Copper-based fertiliser. 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 of the total copper. Chelated copper (Cu) if present.

Number 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 1234563f. Copper fertiliser 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 (Cu) 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). 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 mineral anion. Water-soluble iron (Fe).

Number 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 1234564b. Iron chelate. Water-soluble product obtained by combining iron chemically with a chelating agent. 5% water-soluble Fe, at least 8/10ths of the declared value of which has been chelated. Name of

the chelating agent. Water-soluble iron (Fe).

Chelated iron (Fe). 4c. Iron fertiliser. Product obtained by dissolving types 4a and/or one of 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. Manganese. 5a. Manganese salt. Chemically obtained product containing a mineral manganese salt (Mn II) as its essential ingredient. 17% water-soluble Mn. The designation must include the name of the combined anion. Water-soluble manganese (Mn).

Number 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 1234565b. Manganese chelate. Water-soluble product obtained by combining manganese chemically with a chelating agent. 5% water-soluble Mn, at least 8/10ths 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 oxide as essential ingredients. 40% total Mn.

Particle size: at least 80% passing through a 0.063 mm sieve. Total manganese (Mn). 5d. Manganese-based fertiliser. 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 1/4 of the total manganese.

5e. Manganese-based fertiliser solution. Product obtained by dissolving types 5a and/or one of the type 5b in water. 3% water-soluble Mn. The designation must include: (1) 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.

Number 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 123456 Molybdenum. 6a. Sodium molybdate. Chemically obtained product containing sodium molybdate as its essential ingredient. 35%

water-soluble Mo. Water-soluble molybdenum (Mo). 6b. Ammonium molybdate. Chemically obtained product containing ammonium molybdate as its essential ingredient. 50% water-soluble Mo. Water-soluble molybdenum (Mo).

6c. Molybdenum-based fertiliser. 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 fertiliser 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 name(s) of the molybdenum component(s). Water-soluble molybdenum (Mo).

Number 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  
123456  
Zinc. 7a. Zinc salt. Chemically obtained product 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. Water-soluble product obtained by combining zinc chemically with a chelating agent. 5% water-soluble Zn, at least 8/10ths of the declared content of which has been chelated. Name of the chelating agent.  
Water-soluble zinc (Zn). Chelated Zinc (Zn). 7c. Zinc oxide. Chemically obtained product 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 fertiliser. 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 ¼ of the total zinc (Zn).

Number  
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  
1234567e. Zinc-based fertiliser solution. Product obtained by dissolving types 7a and/or one of type 7b in water. 3% water-soluble Zn. The designation must include: (1) 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.

#### MINIMUM TRACE-ELEMENT CONTENT, PERCENTAGE WEIGHT OF FERTILISER. CHAPTER B. SOLID OR FLUID MIXTURES OF TRACE ELEMENTS.

Where the trace element is present in a form that is exclusively mineral, chelated or complexed  
For a trace element  
Boron (B) 0.20  
Cobalt (Co) 0.02  
Copper (Cu) 0.50  
Iron (Fe) 2.00  
Manganese (Mn) 0.50  
Molybdenum (Mo) 0.02  
Zinc (Zn) 0.50  
Minimum total of trace elements in a solid mixture: 5% by mass of the fertiliser.  
Minimum total of trace elements in a fluid mixture: 2% by mass of the fertiliser.

#### CHAPTER C. EEC FERTILISERS CONTAINING MAJOR AND/OR SECONDARY ELEMENTS WITH TRACE ELEMENTS APPLIED TO THE SOIL.

For crops of grassland  
For horticulture use  
Boron (B) 0.01  
Cobalt (Co) 0.002  
Copper (Cu) 0.01  
Iron (Fe) 0.50  
Manganese (Mn) 0.10  
Molybdenum (Mo) 0.001  
Zinc (Zn) 0.01  
0.002

#### CHAPTER D. EEC FERTILISERS 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  
CHAPTER E.

## LIST OF AUTHORISED ORGANIC COMPLEXING AGENTS FOR TRACE ELEMENTS.

Definition of complexed trace elements:

Within the meaning of this Directive complexed trace elements are defined as combinations where the metal is present in the form of:

—1 chelated product.

—1 complexed product.

Authorised products:

1. Chelating agents:

Sodium, potassium or ammonium acid or salts of: Ethylene diamine tetraacetic acid:EDTAC<sub>10H<sub>16</sub>O<sub>8</sub>N<sub>2</sub></sub> diethylene triamine pentaacetic acid:DPTAC<sub>14H<sub>21</sub>O<sub>10</sub>N<sub>1</sub></sub> ethylene diamine —

di (O-hydroxyphenyl acetic) acid:EDDHAC<sub>18H<sub>20</sub>O<sub>6</sub>N<sub>2</sub></sub> hydroxy-2 ethylene diamine triacetic acid: HEEDTAC<sub>10H<sub>18</sub>O<sub>7</sub>N<sub>2</sub></sub> ethyldiamine-di (O-hydroxy P-methyl phenyl) acetic acid:EDDHMAC<sub>20H<sub>24</sub>N<sub>2</sub>O<sub>6</sub></sub> ethylene diamine di (5-carboxy-2-hydroxyphenyl) Acetic Acid EDDCHAC<sub>20H<sub>20</sub>O<sub>10</sub>N<sub>2</sub></sub>

2. Complexing agents(1).

(1)List to be drawn up.

GIVEN under my Official Seal, this 27th day of May 1994.

JOE WALSH,  
Minister for Agriculture, Food and  
Forestry.

### EXPLANATORY NOTE.

The Regulations (a) provide for the marketing of slow-release nitrogenous fertilisers, fertiliser containing the trace elements boron and copper, and fertiliser solutions of magnesium nitrate, and of a mixture of magnesium and sulphur, and (b) amend the Annexes to Council Directive 76/116/EEC.