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**COUNCIL DIRECTIVE**

**of 13 April 1989**

**supplementing and amending Directive 76/116/EEC in respect of the calcium, magnesium, sodium and sulphur content of fertilizers**

(89/284/EEC)

(OJ L 111, 22.4.1989, p. 34)

Amended by:

	Official Journal		
	No	page	date
► <u>M1</u> Directive 97/63/EC of the European Parliament and of the Council of 24 November 1997	L 335	15	6.12.1997

▼B**COUNCIL DIRECTIVE****of 13 April 1989****supplementing and amending Directive 76/116/EEC in respect of the calcium, magnesium, sodium and sulphur content of fertilizers**

(89/284/EEC)

THE COUNCIL OF THE EUROPEAN COMMUNITIES,

Having regard to the Treaty establishing the European Economic Community, and in particular Article 100a thereof,

Having regard to the proposal from the Commission<sup>(1)</sup>, In cooperation with the European Parliament<sup>(2)</sup>,

Having regard to the opinion of the Economic and Social Committee<sup>(3)</sup>,

Whereas measures need to be adopted for the progressive completion of the internal market by 31 December 1992; whereas the internal market is an area without internal frontiers in which the free movement of goods, persons, services and capital is guaranteed;

Whereas Council Directive 76/116/EEC of 18 December 1975 on the approximation of the laws of the Member States relating to fertilizers<sup>(4)</sup>, as last amended by Directive 88/183/EEC<sup>(5)</sup>, laid down rules for the marketing of solid EEC fertilizers; whereas it has proved necessary to extend the said Directive to include the calcium, magnesium, sodium and sulphur contents of such fertilizers;

Whereas Directive 76/116/EEC may henceforth be applicable to fertilizers containing only calcium, magnesium and sulphur,

HAS ADOPTED THIS DIRECTIVE:

*Article 1*

A declaration of the magnesium, sodium and sulphur content of the ►**MI** EC fertilizers ◀ listed in Annex I to Directive 76/116/EEC may be made provided that these elements are present in at least the minimum quantities specified in Article 2 of this Directive and that the ►**MI** EC fertilizers ◀ continue to satisfy the requirements of Annex I to Directive 76/116/EEC. In such cases, the marking specified in point (b) of Article 6 of this Directive shall be added to the type designation.

*Article 2*

A declaration of the magnesium, sodium and sulphur content of the ►**MI** EC fertilizers ◀ referred to in Article 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 (Na<sub>2</sub>O), i.e. 2,2 % Na,
- 5 % of sulphur trioxide (SO<sub>3</sub>), i.e. 2 % S.

*Article 3*

1. Within the meaning of this Directive, a declaration of the calcium content considered to be a nutrient shall be made, without prejudice to paragraph 2, only for fertilizers of types 1 and 2 as listed in Annex I.

Member States may stipulate that the calcium content of fertilizers marketed in their territories be expressed in the oxide form (CaO), in the elemental form (Ca), or in both of these forms.

<sup>(1)</sup> OJ No C 20, 26. 1. 1988, p. 5.

<sup>(2)</sup> OJ No C 262, 10. 10. 1986, p. 82 and OJ No C 47, 27. 2. 1989.

<sup>(3)</sup> OJ No C 134, 24. 5. 1988, p. 6.

<sup>(4)</sup> OJ No L 24, 30. 1. 1976, p. 21.

<sup>(5)</sup> OJ No L 83, 29. 3. 1988, p. 33.

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The following formula shall be used to convert the calcium oxide content into a calcium content:

$$\text{calcium (Ca)} = \text{calcium oxide (CaO)} \times 0,715$$

2. The soluble calcium content of the liquid fertilizers referred to in Part C of Annex I to Directive 76/116/EEC, which are intended for foliage spraying, may be stipulated when the content reaches a minimum of 8 % calcium oxide (= 5,7 % Ca).

*Article 4*

Fertilizers meeting the provisions of this Directive and the Annexes thereto may be marked '►**M1** EC FERTILIZER ◀'.

*Article 5*

Member States may stipulate that the magnesium, sodium and sulphur contents of fertilizers marketed in their territories shall be expressed:

- in the oxide form (MgO, Na<sub>2</sub>O, SO<sub>3</sub>),
- or in the elemental form (Mg, Na, S),
- or in both of these forms.

The following formulae shall be used to convert the sodium oxide and sulphur trioxide contents into sodium and sulphur contents:

- sodium (Na) = sodium oxide (Na<sub>2</sub>O) × 0,742,
- sulphur (S) = sulphur trioxide (SO<sub>3</sub>) × 0,400.

If the oxide content is calculated, the figure declared shall be rounded to the nearest decimal place.

*Article 6*

Compulsory marking for identification purposes:

- (a) '►**M1** EC FERTILIZER ◀' in capital letters;
- (b) the designation of the type of fertilizer:
  - either in accordance with Annex I to Directive 76/116/EEC, with the designation of the type being followed by 'containing ...' and the names or chemical symbols of the elements referred to in this Directive which the fertilizer contains. The figures indicating the contents of the elements referred to in Directive 76/116/EEC may be followed by figures in brackets for the elements referred to in Annex I to this Directive,
  - or in accordance with Annex I to this Directive;
- (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 Annexes to the Directives on fertilizers.

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.

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

N, P<sub>2</sub>O<sub>5</sub> and/or P, K<sub>2</sub>O and/or K, CaO or Ca, MgO, and/of Mg, Na<sub>2</sub>O and/or Na, SO<sub>3</sub> and/or S.

The forms and solubilities of the nutrients shall also be expressed as a percentage by weight of fertilizer, except where Annex I to Directive 76/116/EEC explicitly provides that this content shall be otherwise expressed.

Nutrients shall be indicated both in words and by appropriate chemical symbols, e.g. nitrogen (N), phosphorus (P), phosphorus pentoxide (P<sub>2</sub>O<sub>5</sub>), potassium (K), potassium oxide (K<sub>2</sub>O), magnesium (Mg), magnesium oxide (MgO), sodium (Na), sodium oxide (Na<sub>2</sub>O), sulphur (S) sulphur trioxide (SO<sub>3</sub>), calcium (Ca) and calcium oxide (CaO).

▼B*Article 7*

The declaration of the magnesium, sodium and sulphur content of the fertilizers referred to in Article 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.

The contents shall be determined under the conditions specified in the analytical methods referred to in Article 8 of Directive 76/116/EEC.

*Article 8*

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<sub>2</sub>O and SO<sub>3</sub>, i.e. 0,64 for Ca, 0,55 for Mg, 0,67 for Na and 0,36 for S.

*Article 9*

I to Directive 76/116/EEC shall be amended as follows:

1. the ►**M1** EC fertilizer ◀ kieserite with potassium sulphate mentioned in Annex II to this Directive shall be added to Part A — Straight fertilizers, III. Potassic fertilizers as No 7;
2. the ►**M1** EC fertilizer ◀ calcium nitrate solution, mentioned in Annex II to this Directive, shall be added to Part C — Liquid fertilizers 1 — Straight fertilizers — as No 3, for liquid fertilizers.

*Article 10*

1. Member States shall adopt the measures necessary to comply with this Directive within 12 months of its notification<sup>(1)</sup> They shall forthwith inform the Commission thereof.

2. Member States shall communicate to the Commission the provisions of national law which they adopt in the field governed by this Directive.

*Article 11*

This Directive is addressed to the Member States.

<sup>(1)</sup> This Directive was notified to Member States on 17 April 1989.

## ANNEXE I

## LIST OF FERTILIZERS CONTAINING MAINLY CALCIUM, MAGNESIUM OR SULPHUR AS NUTRIENTS

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 <sub>3</sub> Calcium and sulphur expressed as total CaO + SO <sub>3</sub> 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 trioxide <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 <sub>3</sub> ) Sulphur expressed as total SO <sub>3</sub>		Total sulphur trioxide
4	Kieserite	Product of mineral origin containing monohydrated magnesium sulphate as main component	24 % MgO 45 % SO <sub>3</sub> 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 <sub>3</sub> 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

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
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

## ANNEX II

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	Kieserite with potassium sulphate	Product obtained from Kieserite with potassium sulphate added	8 % MgO Magnesium expressed as water-soluble MgO 6 % K <sub>2</sub> O Potassium expressed as water-soluble K <sub>2</sub> O Total MgO + K <sub>2</sub> O: 20 % Maximum chlorine content: 3 % Cl	Usual trade names may be added	Water-soluble magnesium oxide Water-soluble potassium oxide <i>Optional</i> mention of the chlorine content where lower than 3 % Cl
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