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COUNCIL DIRECTIVE
of 23 November 1970
concerning additives in feeding-stuffs
 (70/524/EEC)

(OJ L 270, 14.12.1970, p. 1)

Amended by:

	Official Journal		
	No	page	date
► <u>M1</u> Council Directive of 28 April 1973 (73/103/EEC)	L 124	17	10.5.1973
► <u>M2</u> First Commission Directive of 27 July 1973 (73/264/EEC)	L 253	12	10.9.1973
► <u>M3</u> Second Commission Directive of 27 July 1973 (73/275/EEC)	L 254	16	11.9.1973
► <u>M4</u> Third Commission Directive of 13 December 1973 (74/7/EEC)	L 14	21	17.1.1974
► <u>M5</u> Fourth Commission Directive of 17 December 1973 (74/38/EEC)	L 30	21	4.2.1974
► <u>M6</u> Fifth Commission Directive of 26 February 1974 (74/180/EEC)	L 94	14	4.4.1974
► <u>M7</u> Sixth Commission Directive of 26 February 1974 (74/181/EEC)	L 94	16	4.4.1974
► <u>M8</u> Seventh Commission Directive of 26 February 1974 (74/182/EEC)	L 94	18	4.4.1974
► <u>M9</u> Eighth Commission Directive of 1 July 1974 (74/378/EEC)	L 199	13	22.7.1974
► <u>M10</u> Ninth Commission Directive of 23 July 1974 (74/421/EEC)	L 221	29	12.8.1974
► <u>M11</u> Tenth Commission Directive of 20 December 1974 (75/50/EEC)	L 19	58	24.1.1975
► <u>M12</u> Eleventh Commission Directive of 24 April 1975 (75/267/EEC)	L 118	45	8.5.1975
► <u>M13</u> Second Council Directive of 28 April 1975 (75/296/EEC)	L 124	29	15.5.1975
► <u>M14</u> Twelfth Commission Directive of 24 October 1975 (75/696/EEC)	L 299	19	19.11.1975
► <u>M15</u> Thirteenth Commission Directive of 15 December 1975 (76/13/EEC)	L 4	21	9.1.1976
► <u>M16</u> Fourteenth Commission Directive of 8 June 1976 (76/546/EEC)	L 160	11	22.6.1976
► <u>M17</u> Fifteenth Commission Directive of 21 June 1976 (76/603/EEC)	L 198	10	23.7.1976
► <u>M18</u> Sixteenth Commission Directive of 1 December 1976 (76/933/EEC)	L 364	18	31.12.1976
► <u>M19</u> Seventeenth Commission Directive of 16 February 1977 (77/179/EEC)	L 60	15	5.3.1977
► <u>M20</u> Eighteenth Commission Directive of 11 July 1977 (77/471/EEC)	L 180	27	20.7.1977
► <u>M21</u> Nineteenth Commission Directive of 26 July 1977 (77/512/EEC)	L 207	53	13.8.1977
► <u>M22</u> 20th Commission Directive of 7 December 1977 (78/58/EEC)	L 18	7	24.1.1978
► <u>M23</u> Twenty-first Commission Directive of 23 December 1977 (78/117/EEC)	L 40	19	10.2.1978
► <u>M24</u> Twenty-second Commission Directive of 30 May 1978 (78/522/EEC)	L 159	43	17.6.1978
► <u>M25</u> Twenty-third Commission Directive of 23 June 1978 (78/613/EEC)	L 198	10	22.7.1978
► <u>M26</u> Twenty-fourth Commission Directive of 28 July 1978 (78/743/EEC)	L 247	25	9.9.1978
► <u>M27</u> Twenty-fifth Commission Directive of 16 November 1978 (78/974/EEC)	L 330	30	25.11.1978
► <u>M28</u> Twenty-sixth Commission Directive of 18 December 1978 (79/139/EEC)	L 39	11	14.2.1979
► <u>M29</u> Twenty-seventh Commission Directive of 7 June 1979 (79/553/EEC)	L 148	58	16.6.1979

▶ M30	Twenty-eighth Commission Directive of 20 July 1979 (79/697/EEC)	L 207	19	15.8.1979
▶ M31	Twenty-ninth Commission Directive of 15 November 1979 (79/1011/EEC)	L 310	24	6.12.1979
▶ M32	Thirtieth Commission Directive of 9 January 1980 (80/131/EEC)	L 30	21	7.2.1980
▶ M33	Thirty-first Commission Directive of 8 April 1980 (80/440/EEC)	L 104	18	22.4.1980
▶ M34	Thirty-second Commission Directive of 26 June 1980 (80/618/EEC)	L 171	36	4.7.1980
▶ M35	Thirty-third Commission Directive of 4 July 1980 (80/678/EEC)	L 185	48	18.7.1980
▶ M36	Thirty-fourth Commission Directive of 4 September 1980 (80/884/EEC)	L 251	17	24.9.1980
▶ M37	Thirty-fifth Commission Directive of 25 November 1980 (80/1139/EEC)	L 336	42	13.12.1980
▶ M38	Thirty-sixth Commission Directive of 28 November 1980 (80/1156/EEC)	L 343	35	18.12.1980
▶ M39	Thirty-seventh Commission Directive of 9 April 1981 (81/332/EEC)	L 131	1	18.5.1981
▶ M40	Thirty-eighth Commission Directive of 16 July 1981 (81/632/EEC)	L 231	30	15.8.1981
▶ M41	Thirty-ninth Commission Directive of 15 January 1982 (82/91/EEC)	L 42	16	13.2.1982
▶ M42	Council Directive of 30 June 1982 (82/471/EEC)	L 213	8	21.7.1982
▶ M43	Fortieth Commission Directive of 23 June 1982 (82/474/EEC)	L 213	22	21.7.1982
▶ M44	Forty-first Commission Directive of 19 November 1982 (82/822/EEC)	L 347	16	7.12.1982
▶ M45	Forty-second Commission Directive of 16 May 1983 (83/266/EEC)	L 147	18	6.6.1983
▶ M46	Forty-third Commission Directive of 28 July 1983 (83/466/EEC)	L 255	28	15.9.1983
▶ M47	Forty-fourth Commission Directive of 29 November 1983 (83/615/EEC)	L 350	17	13.12.1983
▶ M48	Forty-fifth Commission Directive of 15 February 1984 (84/107/EEC)	L 61	35	2.3.1984
▶ M49	Forty-sixth Commission Directive of 28 May 1984 (84/349/EEC)	L 183	15	11.7.1984
▶ M50	Forty-seventh Commission Directive of 26 October 1984 (84/547/EEC)	L 297	40	15.11.1984
▶ M51	Council Directive of 29 November 1984 (84/587/EEC)	L 319	13	8.12.1984
▶ M52	Forty-eighth Commission Directive of 6 February 1985 (85/157/EEC)	L 59	27	27.2.1985
▶ M53	Forty-ninth Commission Directive of 31 May 1985 (85/312/EEC)	L 165	21	25.6.1985
▶ M54	Fiftieth Commission Directive of 24 June 1985 (85/342/EEC)	L 179	35	11.7.1985
▶ M55	Commission Directive of 8 July 1985 (85/429/EEC)	L 245	1	12.9.1985
▶ M56	Commission Directive of 11 November 1985 (85/520/EEC)	L 323	12	4.12.1985
▶ M57	Council Regulation (EEC) No 3768/85 of 20 December 1985	L 362	8	31.12.1985
▶ M58	Second Commission Directive of 5 February 1986 (86/29/EEC)	L 39	55	14.2.1986
▶ M59	Commission Directive of 4 June 1986 (86/300/EEC)	L 189	42	11.7.1986
▶ M60	Commission Directive of 28 July 1986 (86/403/EEC)	L 233	16	20.8.1986
▶ M61	Commission Directive of 27 October 1986 (86/525/EEC)	L 310	19	5.11.1986
▶ M62	Commission Directive of 23 April 1987 (87/243/EEC)	L 110	34	25.4.1987
▶ M63	Commission Directive of 23 April 1987 (87/244/EEC)	L 110	35	25.4.1987
▶ M64	Council Directive of 16 June 1987 (87/316/EEC)	L 160	32	20.6.1987
▶ M65	Council Directive of 16 June 1987 (87/317/EEC)	L 160	34	20.6.1987
▶ M66	Commission Directive of 17 November 1987 (87/552/EEC)	L 336	34	26.11.1987
▶ M67	Commission Directive of 8 April 1988 (88/228/EEC)	L 101	30	20.4.1988
▶ M68	Commission Directive of 14 July 1988 (88/483/EEC)	L 237	39	27.8.1988
▶ M69	Commission Directive of 30 November 1988 (88/616/EEC)	L 343	25	13.12.1988
▶ M70	Commission Directive of 21 December 1988 (89/23/EEC)	L 11	34	14.1.1989
▶ M71	Commission Directive of 27 October 1989 (89/583/CEE)	L 325	33	10.11.1989
▶ M72	Commission Directive of 19 February 1990 (90/110/EEC)	L 67	44	15.3.1990

▶ M73 Commission Directive of 9 April 1990 (90/206/EEC)	L 106	30	26.4.1990
▶ M74 Commission Directive of 20 April 1990 (90/214/EEC)	L 113	39	4.5.1990
▶ M75 Commission Directive of 20 July 1990 (90/412/EEC)	L 209	25	8.8.1990
▶ M76 Commission Directive of 26 November 1990 (90/643/EEC)	L 350	80	14.12.1990
▶ M77 Council Directive of 4 December 1990 (90/654/EEC)	L 353	48	17.12.1990
▶ M78 Commission Directive of 12 April 1991 (91/248/EEC)	L 124	1	18.5.1991
▶ M79 Commission Directive of 19 April 1991 (91/249/EEC)	L 124	43	18.5.1991
▶ M80 Commission Directive of 10 June 1991 (91/336/EEC)	L 185	31	11.7.1991
▶ M81 Commission Directive of 9 September 1991 (91/508/EEC)	L 271	67	27.9.1991
▶ M82 Commission Directive of 22 November 1991 (91/620/EEC)	L 334	62	5.12.1991
▶ M83 Commission Directive 92/64/EEC of 13 July 1992	L 221	51	6.8.1992
▶ M84 Commission Directive 92/99/EEC of 17 November 1992	L 350	83	1.12.1992
▶ M85 Commission Directive 92/113/EEC of 16 December 1992	L 16	2	25.1.1993
▶ M86 Commission Directive 93/27/EEC of 4 June 1993	L 179	5	22.7.1993
▶ M87 Commission Directive 93/55/EEC of 25 June 1993	L 206	11	18.8.1993
▶ M88 Commission Directive 93/107/EC of 26 November 1993	L 299	44	4.12.1993
▶ M89 Council Directive 93/114/EC of 14 December 1993	L 334	24	31.12.1993
▶ M90 Commission Directive 94/17/EC of 22 April 1994	L 105	19	26.4.1994
▶ M91 Commission Directive of 18 July 1994 (94/41/CE)	L 209	18	12.8.1994
▶ M92 Commission Directive 94/50/EC of 31 October 1994	L 297	27	18.11.1994
▶ M93 Commission Directive 94/77/EC of 20 December 1994	L 350	113	31.12.1994
▶ M94 Commission Directive 95/37/EC of 18 July 1995	L 172	21	22.7.1995
▶ M95 Commission Directive 95/55/EC of 31 October 1995	L 263	18	4.11.1995
▶ M96 Council Directive 95/69/EC of 22 December 1995	L 332	15	30.12.1995
▶ M97 Commission Directive 96/7/EC of 21 February 1996	L 51	45	1.3.1996
▶ M98 ▶ M99 Council Directive 96/25/EC of 29 April 1996 ◀	L 125	35	23.5.1996
▶ M99 amended by Directive 2000/16/EC of the European Parliament and the Council of 10 April 2000	L 105	36	3.5.2000

Amended by:

▶ A1 Act of Accession of Greece	L 291	17	19.11.1979
▶ A2 Act of Accession of Spain and Portugal	L 302	23	15.11.1985
▶ A3 Act of Accession of Austria, Sweden and Finland	C 241	21	29.8.1994
(adapted by Council Decision 95/1/EC, Euratom, ECSC)	L 1	1	1.1.1995

Corrected by:

▶ C1 Consolidated text of corrigenda to instruments published in Special Editions 1952-72, p. 80 (70/524/EEC)			
▶ C2 Corrigendum, OJ L 320, 27.11.1980, p. 43 (80/678/EEC)			
▶ C3 Corrigendum, OJ L 237, 12.8.1982, p. 46 (82/474/EEC)			
▶ C4 Corrigendum, OJ L 83, 30.3.1990, p. 128 (90/110/EEC)			
▶ C5 Corrigendum, OJ L 96, 12.4.1990, p. 92 (90/110/EEC)			
▶ C6 Corrigendum, OJ L 174, 3.7.1991, p. 38 (91/249/EEC)			

- ▶ C7 Corrigendum, OJ L 287, 17.10.1991, p. 44 (91/248/EEC)
- ▶ C8 Corrigendum, OJ L 44, 17.2.1994, p. 35 (93/114/EC)

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COUNCIL DIRECTIVE
of 23 November 1970
concerning additives in feeding-stuffs
(70/524/EEC)

THE COUNCIL OF THE EUROPEAN COMMUNITIES,

Having regard to the Treaty establishing the European Economic Community, and in particular Articles 43 and 100 thereof;

Having regard to the proposal from the Commission;

Having regard to the Opinion of the European Parliament ⁽¹⁾;

Having regard to the Opinion of the Economic and Social Committee;

Whereas livestock production occupies a very important place in the agriculture of the European Economic Community; whereas satisfactory results depend to a large extent on the use of appropriate good-quality feeding-stuffs;

Whereas the existence of rules concerning feeding-stuffs is essential to an increase in agricultural productivity;

Whereas animal feeding increasingly involves the use of additives;

Whereas the provisions laid down in the Member States by law, regulation or administrative action concerning additives in feeding-stuffs, insofar as they exist, differ as regards their basic principles; whereas it follows that they directly affect the establishment and functioning of the common market and should therefore be harmonised;

Whereas, as a general rule, 'additives' means substances which improve both the feeding-stuffs in which they are incorporated and livestock production; whereas, for this reason, antibiotics should also be regarded as additives since, when used in small quantities, they have a physiological nutritional effect, although when used in large quantities they have a medicinal effect;

Whereas these substances must not be used in feeding-stuffs for the prime purpose of diagnosing, treating or preventing disease; whereas they should, however be authorised for the sole purpose of improving feeding-stuffs by preventing nutritional deficiencies;

Whereas, furthermore, certain purely medicinal substances such as coccidiostats should, during a first stage, be regarded in relation to feeding-stuffs as additives, since most Member States have been using them for collective prophylaxis, principally in poultry-farming; whereas, however, they will be examined further if a directive on medicinal feeding-stuffs is drawn up;

Whereas the basic principle underlying rules in this field must be that only those additives which are named in this Directive may be contained in feeding-stuffs and only subject to the requirements set out herein, and that such additives may not, subject to the exceptions provided for, be used in any other way for the purposes of animal feeding;

Whereas it is necessary, at the time when additives are authorised, to make sure that they have a favourable effect on the characteristics of the feeding-stuffs to which they are added or on livestock production; whereas they must not endanger animal or human health nor harm the consumer of livestock products; whereas, subject to the exceptions provided for, it is advisable to examine whether such additives may now be used for the treatment or prevention of disease or whether there are still serious reasons for restricting their use to medical or veterinary purposes;

⁽¹⁾ OJ No C 135, 14.12.1968, p. 20.

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Whereas, because of the special situation of certain Member States, and in particular because of their different systems of animal feeding, it is necessary in certain cases to allow derogations from the above-mentioned principles to an extent acceptable for animal and human health;

Whereas Member States should also retain the power to suspend the use of certain additives or to lower their maximum levels if animal or human health is being endangered; whereas Member States should not, however, be able to have recourse to that power in order to hinder the free movement of the various products;

Whereas provision should be made for feeding-stuffs containing additives to be specially labelled so that the user may know the nature of the additive and be protected against fraud; whereas this provision refers particularly to ►C1 supplementary ◀ feeding-stuffs containing concentrates of certain additives;

Whereas Community rules should not apply to feeding-stuffs intended for export to third countries, as the latter generally apply different rules;

Whereas, in order to ensure that the requirements laid down in respect of additives are satisfied during marketing, Member States must make provision for appropriate control arrangements;

Whereas feeding-stuffs satisfying these requirements must be subject only to the marketing restrictions provided for in this Directive;

Whereas, in order to facilitate implementation of this Directive, a procedure should be applied which establishes close co-operation between Member States and the Commission within the Standing Committee for Feeding-stuffs;

HAS ADOPTED THIS DIRECTIVE:

▼M51*Article 1*

This Directive shall apply to additives in feedingstuffs.

Article 2

For the purposes of this Directive the following definitions shall apply:

- (a) *Additives*: substances, or preparations containing substances, other than premixtures referred to in (h) which, when incorporated in feedingstuffs, are likely to affect their characteristics or livestock production;
- (b) *Feedingstuffs*: products of vegetable or animal origin in their natural state, fresh or preserved, and products derived from the industrial processing thereof, and organic or inorganic substances, used singly or in mixtures, whether or not containing additives, for oral animal feeding;
- (c) *Daily ration*: the average total quantity of feedingstuffs, calculated on a moisture content of 12 %, required daily by an animal of a given species, age category and yield, to satisfy all its needs;
- (d) *Complete feedingstuffs*: mixtures of feedingstuffs which, by reason of their composition, are sufficient for a daily ration;
- (e) *Supplementary feedingstuffs*: mixtures of feedingstuffs which have a high content of certain substances and which, by reason of their composition, are sufficient for a daily ration only if they are used in combination with other feedingstuffs;

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- (f) *Feed materials*: various products of vegetable or animal origin, in their natural state, fresh or preserved, and products derived from the industrial processing thereof, and organic or inorganic substances, whether or not containing additives, which are intended for use in oral animal feeding either directly as such or after

▼ M98

processing, in the preparation of compound feedingstuffs or as carriers of premixtures;

- (g) *Compound feedingstuffs*: mixtures of feed materials, whether or not containing additives, which are intended for oral animal feeding as complete or complementary feedingstuffs;

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- (h) *Premixtures*: mixtures of additives or mixtures of one or more additives with substances used as carriers, intended for the manufacture of feedingstuffs;
- (i) *Animals*: animals belonging to species normally nourished and kept or consumed by man;
- (j) *Pet animals*: animals belonging to species normally nourished and kept, but not consumed, by man, except animals bred for fur.

Article 3

1. Member States shall provide that, as regards feedingstuffs, only those additives listed in Annex I which comply with this Directive may be marketed and that they may be incorporated in feedingstuffs only subject to the requirements set out in that Annex. These additives may not be used in any other way for the purposes of animal feeding.

2. Member States shall, in particular, ensure that additives may be incorporated in ► **M98** feed materials ◀ only as long as their use is expressly provided for in Annex I or Annex II.

Article 4

1. By way of derogation from Article 3 (1), Member States may authorize the marketing and use, within their own territory, of:

- (a) additives listed in Annex II, provided that they comply with the provisions laid down for them by this Directive;
- (b) additives belonging to groups other than those listed in Annex I or Annex II, provided that tests have shown that the conditions set out in Article 7 (2) (A) are satisfied. This derogation shall not apply to substances having a hormonal or anti-hormonal effect.

2. Member States shall forward:

- before 3 January 1985 the list of groups and additives authorized under paragraph 1 (b) to the other Member States and to the Commission,
- before 3 December 1985 the documents justifying these authorizations with reference to the conditions set out in Article 7 (2) (A).

▼ A2

With regard to Spain and Portugal:

- the date '3 January 1985' referred to above is replaced by '1 April 1986',
- the date '3 December 1985' referred to above is replaced by '1 December 1986'.

▼ M51*Article 5*

Before 3 December 1988 the national authorizations granted pursuant to Article 4 (1) (b) shall be decided on in accordance with the procedure laid down in Article 23.

Article 6

1. The maximum and minimum contents listed in Annex I and Annex II shall refer to complete feedingstuffs with a moisture content of 12 % in so far as no special provisions are set forth in the said Annexes.

If the substance permitted as an additive also exists in the natural state in certain ingredients of the feedingstuff, the amount of additive to be

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incorporated is calculated so that the total of the elements added and the elements present naturally does not exceed the maximum content provided for in Annexes I and II.

2. The mixing of additives named in this Directive shall be permitted in premixtures and feedingstuffs only where, in relation to the effects desired, there is physical and chemical compatibility between the components of the mixture.

3. Unless the mixture concerned is set out in Annex I or Annex II, Member States shall require that:

- (a) antibiotics and growth promoters may not be mixed together, either with substances from their own group or with substances from the other group;
- (b) coccidiostats may not be mixed with antibiotics and growth promoters where coccidiostats also act, for the same category of animal, as an antibiotic or as a growth promoter;
- (c) coccidiostats and other medicinal (SIC! medical) substances may not be mixed together if their effects are similar.

4. Member States may, for experimental or scientific purposes, provide for derogations from the provisions of Article 3 or of paragraphs 2 or 3 of this Article on condition that there is adequate official supervision.

Article 7

1. Amendments to be made to Annexes on account of the growth of scientific and technical knowledge shall be adopted in accordance with the procedure laid down in Article 23.

A codified version of the Annexes shall be adopted at regular intervals in accordance with the same procedure, the aim being to incorporate the successive amendments made pursuant to this paragraph.

2. When amendments are made to Annex I or Annex II, the following principles shall be applied:

- A. An additive shall be included in Annex I only if:
 - (a) it has a favourable effect on the characteristics of those feedingstuffs or on livestock production when incorporated in such feedingstuffs;
 - (b) at the level permitted in feedingstuffs, it does not adversely affect human or animal health or the environment, nor harm the consumer by altering the characteristics of livestock products;
 - (c) its presence in feedingstuffs can be controlled;
 - (d) at the level permitted in feedingstuffs, treatment or prevention of animal disease is excluded; this condition does not apply to substances of the kind listed in Annex I (D);
 - (e) for serious reasons concerning human or animal health its use must not be restricted to medical or veterinary purposes.
- B. An additive shall be deleted from Annex I if any of the conditions listed under A is no longer satisfied. However, such an additive may be inserted in Annex II for a specified period, if as a minimum the conditions of subparagraph A (b) and (e) are always satisfied.
- C. A new additive or a new usage attributed to an additive may be inserted in Annex II only if the conditions stipulated under subparagraph A (b), (c) and (e) are satisfied and it can be assumed, taking into account available results, that the other conditions stipulated under subparagraph A are also satisfied.

The length of time for which a new additive or new use is authorized must not exceed five years, from its being entered in that Annex.

▼ **M89***Article 7a*

If an additive contains or consists of genetically modified organisms within the meaning of Article 2 (1) and (2) of Council Directive 90/220/EEC of 23 April 1990 on the deliberate release into the environment of genetically modified organisms⁽¹⁾, a specific environmental risk assessment similar to that laid down in the abovementioned Directive shall be carried out for this purpose, the following documents to be included in the dossier submitted pursuant to Article 9 of this Directive in order to ensure compliance with the principles set out in Article 7 (2) of this Directive:

- a copy of any written consent or consents of the competent authorities to the deliberate release of genetically modified organisms for research and development purposes pursuant to Article 6 (4) of Directive 90/220/EEC and the result of the release(s) with respect to the risk in each case to human health and the environment;
- the complete technical dossier supplying the information requested in ► **C8** Annexes II and III ◀ to Directive 90/220/EEC and the environmental risk assessment resulting from this information; the results of any investigations performed for the purposes of research or development.

▼ **M51***Article 8*

1. When an additive belonging to the groups of ‘antibiotics’, ‘cocci-diostats’; and ‘other medicinal substances’ or ‘growth promoters’; is added to Annex I or Annex II, a monograph indicating the identification process or the criteria for the identification and characterization of the additive, particularly its composition and degree of purity and its physico-chemical and biological properties, shall be drawn up by means of a Directive, taking account of scientific and technical knowledge, in accordance with the procedure laid down in Article 23.

2. By 31 December 1988 at the latest, monographs shall also be drawn up for such additives belonging to the groups referred to in paragraph as are added to Annex I or Annex II before the date on which this Directive is adopted.

3. In accordance with paragraph 1, monographs may also be drawn up for additives belonging to groups other than those referred to in that paragraph.

4. The amendments to be made thereafter to the monographs as a result of developments in scientific or technical knowledge shall be adopted in accordance with the procedure laid down in Article 23.

Article 9

1. For the purposes of checking whether the additives comply with the principles defined in Article 7 (2), Member States shall ensure that a dossier complying with paragraph 2 below is officially forwarded to the Member States and to the Commission.

2. The Council, acting on a proposal from the Commission, shall adopt, by means of a Directive, the guidelines for preparing the dossiers referred to in paragraph 1, so that these guidelines can be applied by 3 December 1986.

The amendments to be made thereafter to the guidelines as a result of developments in scientific or technical knowledge shall be adopted in accordance with the procedure laid down in Article 23.

3. At the reasoned request of the applicant, Member States and the Commission shall ensure that any information which, if disseminated, could affect industrial or commercial property rights is kept confidential.

⁽¹⁾ OJ No L 117, 8. 5. 1990, p. 15.

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Industrial and commercial secrecy shall not apply to:

- the denomination and composition of the additive,
- the physico-chemical and biological characteristics of the additive,
- the interpretation of the pharmacological, toxicological and ecotoxicological data,
- the analytical methods for monitoring the additive in the feeding-stuffs.

Article 10

Member States shall require that additives and premixtures may be marketed only in closed packages or closed containers. Member States shall require that packages or containers must be closed in such a way that the fastener is damaged on opening and cannot be re-used.

Article 11

1. Where a Member State, as a result of new information or of a reassessment of existing information made since the provisions in question were adopted, has detailed grounds for establishing that the use of one of the additives listed in Annex I or its use in conditions which may be specified constitutes a danger to animal or human health or the environment although it complies with the provisions of this Directive, that Member State may temporarily suspend or restrict application of the provisions in question in its territory. It shall immediately inform the other Member States and the Commission thereof, giving reasons for its decision.

2. The Commission shall, as soon as possible, examine the grounds cited by the Member State concerned and consult the Member States within the Standing Committee for Feedingstuffs; it shall then deliver its opinion without delay and take the appropriate measures.

3. Should the Commission consider that amendments to the Directive are necessary in order to mitigate the difficulties mentioned in paragraph 1 and to ensure the protection of human or animal health or the environment, it shall initiate the procedure laid down in Article 24 with a view to adopting these amendments; the Member State which has adopted safeguard measures may in that event retain them until the amendments enter into force.

Article 12

1. Member States shall require that supplementary feedingstuffs, diluted as specified, may not contain levels of the additives named in this Directive which exceed those fixed for complete feedingstuffs.

2. Member States may require that the levels of antibiotics, coccidiostats and other medicinal substances, growth promoters, D vitamins and antioxidants in supplementary feedingstuffs may exceed the maximum levels fixed for complete feedingstuffs in the case of:

- (a) supplementary feedingstuffs which a Member State has authorized to be made available to all users, provided that their level of antibiotics, D vitamins or growth promoters does not exceed five times the fixed maximum level;
- (b) supplementary feedingstuffs which are intended for certain species of animal and which a Member State is permitted to authorize to be made available within its territory to all users because of special feeding systems, provided that their level does not exceed:
 - for antibiotics and growth promoters, 1 000 mg/kg and, provided that the use of these substances is permitted, 2 000 mg/kg in the case of cattle for fattening;
 - for antioxidants, coccidiostats and other medicinal substances, five times the fixed maximum level;
 - for D vitamins, 200 000 IU/kg.

Member States shall prescribe that if, in the manufacture of supplementary feedingstuffs, recourse is had to the possibility referred to in (a),

▼ M51

the possibility referred to in (b) may not be made use of at the same time.

3. Where paragraph 2 is invoked, Member States shall require that the feedingstuff has one or more compositional characteristics (as regards, for example, proteins or minerals) which in practice ensure that the level of additives fixed for complete feedingstuffs is not exceeded and that the feedingstuff is not used for other species of animal.

▼ M96*Article 13*

1. Member States shall require that additives covered by this Directive, premixtures prepared from these additives with a view to their being incorporated in compound feedingstuffs and compound feedingstuffs containing these premixtures may be put into circulation or used only by the establishments or intermediaries which meet the conditions laid down, as appropriate, in Council Directive 95/69/EC of 22 December 1995 laying down the conditions and arrangements for approving and registering certain establishments and intermediaries operating in the animal feed sector⁽¹⁾.

▼ M51

2. Member States shall require that the additives referred to in paragraph 1 may be delivered at the final stage of marketing:

- only to manufacturers of premixtures, and
- in the form of premixtures, only to manufacturers of compound feedingstuffs

who fulfil the minimum conditions set out in Annex III.

3. Each Member State shall publish annually and, at the latest by 30 November each year, the list of manufacturers of additives, premixtures and compound feedingstuffs who have, to the satisfaction of the Member State concerned, complied with the requirements listed in Annex III.

It shall forward such list to the other Member States and to the Commission before 31 December each year.

Any amendments made to these lists after 30 November shall be forwarded separately to the other Member States and to the Commission.

4. Member States shall require that the additives referred to in paragraph 1 may be incorporated in compound feedingstuffs only if they have been prepared in advance in the form of premixtures including a carrier. These premixtures may be incorporated in the compound feedingstuffs only in a proportion of at least 0,2 % by weight. However, Member States may permit premixtures to be incorporated in compound feedingstuffs in a lower proportion down to 0,05 %.

5. Member States may make paragraphs 1 and 2 applicable to carotenoids and xanthophylls and to trace elements and vitamins.

Article 14

1. Member States shall require that additives listed in Annex I or Annex II may be marketed for use in feedingstuffs only if the following particulars, which must be clearly visible, readily legible and indelible and must place responsibility on the producer, packer,

⁽¹⁾ OJ No L 332, 30. 12. 1995, p. 15.

▼ M51

importer, seller or distributor established within the Community, are given on the package, the container or a label affixed thereto:

▼ M89

A. for all additives with the exception of enzymes and micro-organisms:

▼ M51

- (a) the specific name of the additive, in accordance with Annexes I or II;
- (b) the name or business name and the address or registered place of business of the person responsible for the particulars referred to in this paragraph;
- (c) the net weight and, in the case of liquid additives, either the net volume or the net weight;

B. in addition, for:

- (a) antibiotics, growth promoters, coccidiostats and other medicinal substances: the name or business name and the address or registered place of business of the manufacturer, if he is not responsible for the particulars on the label, the active substance level, expiry date of the guarantee or storage life from the date of manufacture, batch reference number and date of manufacture, the indication: 'to be used exclusively by manufacturers of premixtures for compound feedingstuffs', together with the directions for use and, where appropriate, a safety recommendation regarding use in the case of additives which are the subject of special provisions in the 'other provisions' column of the Annexes;
- (b) vitamin E: alpha-tocopherol level and expiry date of the guarantee of that level or storage life from the date of manufacture;
- (c) vitamins, other than vitamin E, provitamins and substances having a similar effect: active substance level and expiry date of the guarantee of that level or storage life from the date of manufacture;

▼ M89

- (d) trace elements, colorants including pigments, preservatives and other additives with the exception of those belonging to the groups of enzymes and micro-organisms: active substance level;

▼ M51

- (e) with respect to the additives referred to in (b), (c) and (d), the indication: 'to be used exclusively in the manufacture of feedingstuffs';

▼ M89

C. for additives belonging to the groups:

- (a) of enzymes: the specific name of the active components (SIC! component) (s) according to its (their) enzymatic activity(ies) in accordance with Annex I or II, the identification number according to the International Union of Biochemistry, the activity units⁽¹⁾ (activity units per g or activity units per ml), the name or business name and the address or registered place of business of the person responsible for the particulars referred to in this paragraph, and the name or business name and the address or registered place of business of the manufacturer if he is not responsible for the particulars on the label, the expiry date of the guarantee or the storage life from the date of manufacture, the batch reference number and the date of manufacture, the words 'to be used exclusively in the manufacture of feedingstuffs', the directions for use and, where appropriate, the safety recommendation where the column entitled 'Other provisions', in Annex I or II contains special provisions concerning the additives, the net weight and for

⁽¹⁾ Activity units expressed as μ mole of product released per minute per gram of enzymatic preparation.

▼ **M89**

liquid additives either the net volume or the net weight and, where applicable, indication of any particular significant characteristics due to the manufacturing process, in accordance with the provisions concerning labelling in the column entitled 'Other provisions' in Annex I or II;

- (b) of micro-organisms: the identification of the strain(s) in accordance with Annex I or II, the file number of the strain(s), the number of colony-forming units (CFU/g), the name or business name and address or registered place of business of the person responsible for the particulars referred to in this paragraph, the name or business name and address or registered place of business of the manufacturer if he is not responsible for the particulars on the label, the expiry date of the guarantee or the storage life from the date of manufacture, the batch reference number and the date of manufacture, the words 'to be used exclusively in the manufacture of feedingstuffs', the directions for use and, where appropriate, a safety recommendation where the column entitled 'Other provisions' in Annex I or II contains special provisions concerning the additives, the net weight and for liquid additives either the net volume or the net weight and where applicable, indication of any particular significant characteristics due to the manufacturing process, in accordance with the provisions concerning labelling in the column entitled 'Other provisions' in Annex I or II

▼ **M51**

2. Member States shall require that the specific name of the additive may be accompanied:

- (a) by the trade name and the EEC number;
- (b) by the name or business name and the address or registered place of business of the manufacturer, if he is not responsible for the particulars on the label, the directions for use and, where appropriate, a safety recommendation regarding use in those cases where the last three indications are not required under paragraph 1 B (a).

3. Where Article 13 (5) is applied, Member States may require that the indication 'to be used exclusively by manufacturers of premixtures' be mentioned.

4. Member States shall require that information other than that required or authorized pursuant to paragraphs 1, 2 and 3 may appear on packages, containers or labels, provided that they are clearly separated from the abovementioned marking particulars.

Article 15

1. Member States shall require that premixtures may be marketed only if the following particulars, which must be clearly visible, readily legible and indelible and must place responsibility on the producer, packer, importer, seller or distributor established within the Community, are given on the package, the container or a label affixed thereto:

A. for all premixtures:

- (a) the description 'premixture';
- (b) the indication 'to be used exclusively in the manufacture of feedingstuffs', except for the premixtures referred to in B (a), directions for use, and any safety recommendations regarding the use of the premixtures;
- (c) the animal species or category of animals for which the premixture is intended;
- (d) the name or business name and the address or registered place of business of the person responsible for the particulars referred to in this paragraph;
- (e) the net weight and, in the case of liquids, either the volume or net weight;

▼M51

B. in addition, for the premixtures incorporating the additives listed below:

- (a) antibiotics, growth promoters, coccidiostats and other medicinal substances; the name or business name and the address or registered place of business of the manufacturer if he is not responsible for the details on the label, specific name of the additive in accordance with Annexes I or II, active substance level and expiry date of the guarantee of that level, or storage life from the date of manufacture and the indication to be used exclusively by manufacturers of compound feedingstuffs;
- (b) substances having antioxidant effects: specific name of the additive in accordance with Annexes I or II, and active substance level, provided that a maximum level is fixed for complete feedingstuffs in Annexes I or II;
- (c) colorants, including pigments: specific name of the additive in accordance with Annexes I or II, and active substance level, provided that a maximum level is fixed for complete feedingstuffs in Annexes I or II;
- (d) vitamin E: specific name of the additive in accordance with Annexes I or II, alphanatocopherol level and expiry date of the guarantee of that level or storage life from the date of manufacture;
- (e) vitamins other than vitamin E, provitamins and substances having a similar effect: specific name of the additive in accordance with Annexes I or II, active substance level and expiry date of the guarantee of that level or storage life from the date of manufacture;
- (f) trace elements: specific name of the additive in accordance with Annexes I or II, and level of the various elements in so far as a maximum level is fixed for complete feedingstuffs in Annexes I or II;
- (g) preserving agents: specific name of the additive in accordance with Annexes I or II, and active substance level, provided that a maximum level is fixed for complete feedingstuffs in Annexes I or II;

▼M89

- (h) enzymes: the specific name of the active component(s) according to its (their) enzymatic activity(ies) in accordance with Annex I or II, the identification number according to the International Union of Biochemistry, the activity units (activity units per g or activity units per ml), the expiry date of the guarantee or the storage life from the date of manufacture, the name or business name and the address or registered place of business of the manufacturer if he is not responsible for the particulars on the label and, where applicable, indication of any particular significant characteristics due to the manufacturing process, in accordance with the provisions concerning labelling in the column entitled 'Other provisions' in Annex I or II;
- (i) micro-organisms: the identification of the strain(s) in accordance with Annex I or II, the file number of the strain(s), the number of colony-forming units (CFU/g), the expiry date of the guarantee of the storage life from the date of manufacture, the name or business name and the address or registered place of business of the manufacturer if he is not responsible for the particulars on the label and, where applicable, indication of any particular significant characteristics due to the manufacturing process, in accordance with the provisions concerning labelling in the column entitled 'Other provisions' in Annex I or II;
- (j) other additives belonging to the groups referred to in (b) to (i) for which no maximum level is laid down and additives belonging to other groups provided for in Annex I or II: specific name of the additive in accordance with Annex I or II and active substance level, provided that these additives fulfil a function in the feedingstuff as such and the amounts present

▼ **M89**

can be determined by official methods of analysis or, failing this, by valid scientific methods;

▼ **M51**

2. Member States shall require that:
 - (a) the specific name of additives authorized pursuant to Article 4 (1) (b) must be indicated on the package, the container or the label of premixtures. They may require that the active substance level of such additives must also be indicated;
 - (b) the specific name of additives may be accompanied by the trade name;
 - (c) the name of the producer of the additives referred to in paragraph 1 B (a) may be indicated in the labelling of premixtures. However, they may stipulate that this indication shall be compulsory;
 - (d) the specific name of the additives listed in Annex I may be accompanied by the EEC number.
3. Where, pursuant to paragraph 1, the expiry date of the guarantee or storage life from the date of manufacture of several additives belonging to the same group or different groups has to be stated, Member States shall require that a single date of guarantee or a single reference to the storage life may be indicated for all the additives, namely the deadline which will be reached first.
4. Member States shall require that information other than that required or authorized pursuant to paragraphs 1 to 3 may appear on packages, containers or labels, provided that they are clearly separated from the abovementioned marking particulars.

Article 16

1. Member States shall require that feedingstuffs incorporating the additives belonging to the groups listed below may be marketed only if the following particulars, which must be clearly visible, readily legible and indelible and must place responsibility on the producer, packer, importer, seller or distributor established within the Community, are given on the package, the container or a label affixed thereto:
 - (a) for antibiotics, coccidiostats and other medicinal substances and growth promoters: specific name of the additive in accordance with Annexes I or II, active substance level and expiry date of the guarantee of that level or storage life from the date of manufacture;
 - (b) for substances having antioxidant effects:
 - in the case of pet foods: use of the words 'with antioxidant' followed by the specific name of the additive in accordance with Annexes I or II,
 - in the case of compound feedingstuffs other than pet foods: specific name of the additive in accordance with Annexes I or II;
 - (c) for colorants, including pigments provided that these are used for the coloration of feedingstuffs or animal products:
 - in the case of pet foods: use of the words 'colorant' or 'coloured with' followed by the specific name of the additive in accordance with Annexes I or II,
 - in the case of compound feedingstuffs other than pet foods: specific name of the additive in accordance with Annexes I or II;
 - (d) for vitamin E: specific name of the additive in accordance with Annexes I or II, alphanatocopherol level and the expiry date of the guarantee of that level or storage life from the date of manufacture;
 - (e) for vitamins A and D: specific name of the additive, in accordance with Annexes I or II, active substance level and expiry date of the guarantee of that level or storage life from the date of manufacture;
 - (f) for copper: specific name of the additive in accordance with Annexes I or II, and the level expressed in Cu;

▼M51

- (g) for preserving agents:
- in the case of pet foods: use of the words ‘preservative’ or ‘preserved with’ followed by the specific name of the additive in accordance with Annexes I or II,
 - in the case of compound feedingstuffs other than pet foods: specific name of the additive in accordance with Annexes I or II.

▼M89

- (h) for enzymes: the specific name of the active constituent(s) according to its (their) enzymatic activity(ies) in accordance with Annex I or II, the identification number according to the International Union of Biochemistry, the activity units (activity units per kg or activity unit per l), the expiry date of the guarantee or the storage life from the date of manufacture and, where applicable, indication of any particular characteristic due to the manufacturing process, in accordance with the provisions concerning labelling in the column entitled ‘Other provisions’ in Annex I or II;
- (i) for micro-organisms: the identification of the strain(s) in accordance with Annex I or II, the file number of the strain(s), the number of colony-forming units (CFU/kg), the expiry date of the guarantee or the storage life from the date of manufacture and, where applicable, indication of any particular significant characteristic due to the manufacturing process, in accordance with the provisions concerning labelling in the column entitled ‘Other provisions’ in Annex I or II;

▼M51

2. In addition to the particulars provided for by paragraph 1, particulars concerning the proper use of the feedingstuffs may be laid down in Annexes I and II in accordance with the procedure provided for in Article 23.

Member States shall require that these indications must appear on the package or the container or on a label affixed thereto.

3. The presence of trace elements other than copper and of vitamins other than vitamins A, D and E, provitamins and additives having a similar effect may be indicated if the amounts of these substances can be determined by official methods of analysis or, failing this, by valid scientific methods of analysis. In such cases the following details shall be given:

- (a) for trace elements other than copper: the specific name of the additive in accordance with Annexes I or II, and level of the various elements;
- (b) for vitamins other than vitamins A, D and E, provitamins and substances having a similar chemical effect: the specific name of the additive in accordance with Annexes I or II, active substance level and expiry date of the guarantee of that level or storage life from the date of manufacture.

4. Member States shall require that the specific names of additives permitted under Article 4 (1) (b) must be specified on the package, container or label of the feedingstuffs. They may require that the active substance level must also be specified.

5. Member States shall require that:

- (a) the details provided for in paragraphs 1 to 4 shall be printed close to the particulars which have to appear on the package, container or the label affixed thereto in accordance with Community rules on feedingstuffs;
- (b) where a level or a quantity is stated pursuant to paragraphs 1 to 4, such statement shall refer to the amount of additive incorporated in the feedingstuff;
- (c) the details of additives referred to in paragraphs 1 to 4 may be accompanied by the EEC number or the trade name.

▼ **M51**

6. Where, pursuant to paragraph 1, the expiry date of the guarantee or storage life from the date of manufacture of several additives belonging to the same group or different groups has to be stated, Member States shall require that a single date of guarantee or a single reference to the storage life from the date of manufacture may be indicated for all the additives, namely the deadline which will be reached first.

7. In the case of feedingstuffs distributed by road tankers or similar vehicles or in bulk, the details provided for in paragraphs 1 to 4 shall be given in the accompanying document.

Where small quantities intended for the end-user are involved, it shall be sufficient for such details to be conveyed to the purchaser by a suitable notice.

8. By way of derogation from paragraph 1 (b), (c) and (g) and until ... (two years after the notification of this Directive) Member States may give permission for the indication of the specific name of substances having antioxidant effects, colorants and preservatives to be replaced by an indication of the name of the group of additives concerned accompanied by the word 'authorized'.

9. Member States shall require that, in the case of pet foods containing colorants, preservatives or substances having antioxidant effects and put up in packages having a net weight of not more than 10 kilograms, it shall be sufficient for the package to bear the words 'coloured with', or 'preserved with', or the words 'with antioxidant' as appropriate, followed by the words 'EEC additives', provided that:

- (a) the package, container or label bears a reference number by means of which the feedingstuff may be identified, and
- (b) the manufacturer gives, on request, the specific name, or names, of the additive or additives used.

10. Any reference to additives other than in the form provided for in this Directive shall be prohibited.

Article 17

1. Without prejudice to the provisions of Directive 79/373/EEC⁽¹⁾, Member States shall require that supplementary feedingstuffs which contain additives in excess of the maximum levels fixed for complete feedingstuffs may be placed on the market only if the directions for use state, according to the species and age of the animal, the maximum quantity in grams or kilograms of supplementary feedingstuff to be given per animal per day.

This information must be in accordance with the provisions of Annexes I or II.

This provision shall not apply to products delivered to manufacturers of compound feedingstuffs or to their suppliers.

2. The declaration referred to in paragraph 1 shall be so formulated that, when it is correctly followed, the proportion of additives does not exceed the maximum level fixed for complete feedingstuffs.

Article 18

Where feedingstuffs are marketed in other Member States the details referred to in Articles 14 to 17 shall be given in at least one of the official languages of the country of destination.

Article 19

Member States shall ensure that additives, premixtures and feedingstuffs which conform to this Directive are subject only to the marketing restrictions provided for in this Directive.

⁽¹⁾ OJ No L 86, 6. 4. 1979, p. 30.

▼ M51*Article 20*

Member States shall ensure that livestock products are not subject to any marketing restriction as a result of the application of this Directive.

Article 21

1. Member States shall in particular take all necessary measures to ensure that additives, premixtures and feedingstuffs put on the market are officially checked, at least by random sampling, in respect of the identity of the additives used and to verify that the other conditions laid down in this Directive are satisfied.

To this end, they shall require in particular that undertakings which intend to manufacture additives or to put them on the market must first inform the competent authorities thereof.

2. Under the procedure provided for in Article 23, margins of tolerance may be fixed, to be allowed where there is a discrepancy between the result of the official check and the stated content of the additive in the compound feedingstuff.

Article 22

This Directive shall not apply to additives, premixtures and feedingstuffs which are shown, at least by an appropriate indication, to be for export to third countries.

Article 23

1. Where the procedure laid down in this Article is to be followed, matters shall be referred without delay to (SIC! by) the chairman, either on his own initiative or at the request of a Member State, to the Standing Committee for Feedingstuffs, hereinafter called 'the Committee'.

▼ A3

2. The representative of the Commission shall submit to the Committee a draft of the measures to be taken. The Committee shall deliver its opinion on the draft within a time limit which the Chairman may lay down according to the urgency of the matter. The opinion shall be delivered by the majority laid down in Article 148 (2) of the Treaty in the case of decisions which the Council is required to adopt on a proposal from the Commission. The votes of the representatives of the Member States within the Committee shall be weighted in the manner set out in that Article. The Chairman shall not vote.

▼ M51

▶ A3 3. ◀ The Commission shall adopt the measures and implement them forthwith where they are in accordance with the opinion of the Committee. Where they are not in accordance with the opinion of the Committee, or if no opinion is delivered, the Commission shall without delay propose to the Council the measures to be adopted. The Council shall adopt the measures by a qualified majority.

If the Council has not adopted any measures within three months of the proposal being submitted to it, the Commission shall adopt the proposed measures and implement them forthwith, except where the Council has voted by a simple majority against such measures.

Article 24

1. Where the procedure laid down in this Article is to be followed, matters shall be referred to the Committee without delay by the chairman, either on his own initiative or at the request of a Member State.

▼ A3

2. The representative of the Commission shall submit to the Committee a draft of the measures to be taken. The Committee shall deliver its opinion within two days. The opinion shall be delivered by the majority laid down in Article 148 (2) of the Treaty in the case of

▼ A3

decisions which the Council is required to adopt on a proposal from the Commission. The votes of the representatives of the Member States within the Committee shall be weighted in the manner set out in that Article. The Chairman shall not vote.

▼ M51

► **A3** 3. ◀ The Commission shall adopt the measures and implement them forthwith where they are in accordance with the opinion of the Committee. Where they are not in accordance with the opinion of the Committee, or if no opinion is delivered, the Commission shall without delay propose to the Council the measures to be adopted. The Council shall adopt the measures by a qualified majority.

If the Council has not adopted any measures within 15 days of the proposal being submitted to it, the Commission shall adopt the proposed measures and implement them forthwith, except where the Council has voted by a simple majority against such measures.

Article 25

A decision on the transfer of antibiotics, coccidiostats and other medicinal substances, together with preparations based on these products, to Directive 81/851/EEC and to future rules on medicinal feedingstuffs shall be adopted by the Council acting unanimously on a proposal from the Commission once the degree of harmonization with regard to the free movement of products in the sector of veterinary medicinal products and medicated feedingstuffs has reached a level comparable to that obtaining with regard to additives.

*Article 26***▼ B**

Member States shall, within two years following notification thereof, bring into force the laws, regulations, or administrative provisions necessary to comply with this Directive. They shall forthwith inform the Commission thereof.

▼ M77

However, in the case of the territory of the former German Democratic Republic, the Federal Republic of Germany may:

- maintain the provisions applicable prior to unification under which the use of the following additives in feedingstuffs is authorized:
 - Olaquinox,
 - Nourseothricine,
 - Ergambur.

This derogation shall expire on the date of the Decision to be taken, in accordance with Article 7, on the authorization or prohibition of the use of the additives listed above, and by 31 December 1992 at the latest. The Federal Republic of Germany shall ensure that those additives and any feedingstuffs into which they are incorporated are not dispatched to other parts of the Community;

- derogate, until 31 December 1991, from the labelling provisions in Articles 14, 15 and 16 for the additives, additive pre-mixtures and compound feedingstuffs to which additives have been added, produced in the territory in question.

▼ M51*Article 27***▼ B**

This Directive is addressed to the Member States.

ANNEX I

EEC No	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content mg/kg of complete feeding- stuff		Other provisions
					Minimum content	Maximum content	
E 700	A. Antibiotics Bacitracin zinc	C ₆₆ H ₁₀₃ O ₁₆ N ₁₇ SZn (polypeptide containing 12 to 20 % zinc)	Laying hens	—	15	100	—
			Turkeys	4 weeks	5	50	—
			Other poultry, excluding ducks, geese, pigeons	26 weeks	5	20	—
			Calves, lambs, kids	4 weeks	5	50	—
				16 weeks	5	20	—
				16 weeks	5	50	—
				6 months	5	20	—
				6 months	5	80	Milks replacers only
				4 months	5	50	—
				3 months	5	80	Milks replacers only
				6 months	5	20	—
				—	5	20	—
E 710	Spiramycin	I C ₄₃ H ₇₄ O ₁₄ N ₂ II C ₄₅ H ₇₆ O ₁₅ N ₂ } base III C ₄₆ H ₇₈ O ₁₅ N ₂ } (makrolide)	Turkeys	26 weeks	5	20	—
			Other poultry excluding ducks, geese, laying hens, pigeons	16 weeks	5	20	—
			Calves, lambs, kids	16 weeks	5	50	—
				6 months	5	20	—
				6 months	5	80	Milks replacers only
				4 months	5	50	—
				3 months	3	80	Milks replacers only
				6 months	5	20	—
				—	5	20	—
				—	5	20	—
				—	5	20	—

▼ M78

EEC No	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content mg/kg of complete feeding-stuff		Maximum content	Other provisions
					Minimum content mg/kg of complete feeding-stuff	Maximum content		
E 711	Virginiamycin	I $C_{28}H_{35}O_7N_3$ II $C_{43}H_{49}O_{10}N_7$	Animals bred for fur excluding rabbits	—	5	20	—	—
			Turkeys	26 weeks	5	20	—	—
			Other poultry excluding ducks, geese, laying hens, pigeons	16 weeks	5	20	—	—
			Piglets	4 months	5	50	—	—
			Pigs	6 months	5	20	—	—
			Calves	16 weeks	5	50	—	—
				6 months	5	20	—	—
				6 months	5	80	—	—
			Laying hens	—	20	20	—	Milks replacers only
			Cattle for fattening	—	15	40	—	Indicate in the instructions for use: 'The quantity of virginiamycin in the daily ration must not exceed 140 mg for 100 kg of bodyweight and 6 mg for each additional 10 kg of bodyweight'
E 712	Flavophospholipol	$C_{70}H_{124}O_{40}N_6P$	Laying hens	—	2	5	—	—
			Turkeys	26 weeks	1	20	—	—
			Other poultry excluding ducks, geese, pigeons	16 weeks	1	20	—	—
			Piglets	3 months	10	25	—	Milks replacers only
			Pigs	6 months	1	20	—	—
			Animals bred for fur excluding rabbits	—	2	4	—	—
			Calves	6 months	6	16	—	—
				6 months	8	16	—	Milks replacers only

▼ M78

EEC No	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content mg/kg of complete feeding-stuff		Maximum content	Other provisions
					Minimum content mg/kg of complete feeding-stuff	Maximum content		
E 713	Tylosin phosphate	Macrolide product of <i>Streptomyces fradiae</i> Composition of antibiotic factors (1): a) Tylosin $C_{46}H_{77}NO_{17}$: min. 80 % b) Desmicosin $C_{39}H_{63}NO_{14}$ c) Macrocin $C_{45}H_{73}NO_{17}$ d) Relomycin $C_{46}H_{73}NO_{17}$ a) + b) + c) + d): min. 95 %	Cattle for fattening	—	2	10	Indicate in the instructions for use: 'The quantity of flavophospholipol in the daily ration must not exceed 40 mg for 100 kg of bodyweight and 1,5 mg for each additional 10 kg of bodyweight'	
			Rabbits	—	2	4	—	
			Piglets	4 months	10	40	► M90 The minimum and maximum contents are expressed as tylosin base ▼	
			Pigs	6 months	5	20	—	
E 714	Monensin-sodium	$C_{36}H_{60}O_{11}Na$ (sodium salt of polyether monocarboxylic acid produced by <i>Sireptomyces cinnamomensis</i>)	Cattle for fattening	—	10	40	Indicate in the instructions for use: 'The quantity of monensin sodium in the daily ration must not exceed 140 mg for 100 kg of bodyweight and 6 mg for each additional 10 kg of bodyweight. Dangerous for equines'	
			—	—	—	—	► M81 This feedingstuff contains an ionophore: simultaneous use with certain medicinal substances (e.g. tiamulin) can be contra indicated ▼	
E 715	Avoporcine	$C_{53}H_{96}N_6Cl_3$ (glycopeptide)	Chickens for fattening	—	7,5	15	—	
			Turkeys for fattening	16 weeks	10	20	—	

EEC No	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content mg/kg of complete feeding-stuff		Maximum content	Other provisions
					Minimum content mg/kg of complete feeding-stuff	Maximum content		
▼ M78			Piglets	4 months	10	40	Indicate in the instructions for use: 'The quantity of avoparcin in the daily ration must not exceed 103 mg for 100 kg of body-weight and 4,3 mg for each additional 10 kg of bodyweight'	
			Pigs	6 months	5	20		
			Calves	6 months	15	40		
			Cattle for fattening	—	15	30		
▼ M86			Lambs from the beginning of rumination with the exception of poststuregrazed lambs	16 weeks	10	20	—	
▼ M81	Salinomycin sodium	<p>► M97 $C_{42}H_{60}O_{11}Na$ (sodium salt of a polyether monocarboxylic acid produced by <i>Streptomyces albus</i>) Elaiophyllin content: less than 42 mg per kg of Salinomycin sodium 17-epi-20-deoxy-salinomycin content: less than 40 mg per kg of Salinomycin sodium ◄</p>	Piglets	4 months	30	60	Indicate in the instructions for use — 'Dangerous for equines'; — 'This feedingstuff contains on ionophore: simultaneous use with certain medicinal substances (e.g. tiamulin) can be contra indicated.'	
			Pigs	6 months	15	30		
▼ M83	Avilamycin	$C_{57,60}H_{80,90}Cl_{1,2}O_{11,12}$ (Mixture of oligosaccharides of the orthosomycin group produced by <i>Streptomyces viridochromogenes</i>)	Piglets	4 months	20	40	—	
			Pigs	6 months	10	20		
▼ M94			Chickens for fattening	—	2,5	10	—	

▼ M94

EEC No	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content mg/kg of complete feeding-stuff		Maximum content	Other provisions
					Minimum content	Maximum content		
B. Antioxidants								
E 300	L-ascorbic acid	$C_6H_8O_6$	All species or categories of animals	—	—	—	—	All feedingstuffs
E 301	Sodium L-ascorbate	$C_6H_7O_6Na$						
E 302	Calcium L-ascorbate	$C_{12}H_{14}O_{12}Ca \cdot 2H_2O$						
E 303	5,6-Diacetyl-L-ascorbic acid	$C_{10}H_{12}O_8$						
E 304	6-Palmityl-L-ascorbic acid	$C_{22}H_{38}O_7$						
E 306	Tocopherol-rich extracts of natural origin	—						
E 307	Synthetic alphanatocopherol	$C_{29}H_{50}O_2$						
E 308	Synthetic gammatocopherol	$C_{28}H_{48}O_2$						
E 309	Synthetic deltatocopherol	$C_{27}H_{46}O_2$						
E 310	Propyl gallate	$C_{10}H_{12}O_5$						
E 311	Octyl gallate	$C_{15}H_{22}O_5$						
E 312	Dodecyl gallate	$C_{19}H_{30}O_5$						
E 320	Butylated hydroxyanisole (BHA)	$C_{11}H_{16}O_2$						
E 321	Butylated hydroxytoluene (BHT)	$C_{15}H_{24}O$						
E 324	Ethoxyquin	$C_{14}H_{19}ON$						
C. Aromatic and appetizing substances								
E 954(i)	Saccharin	$C_7H_5NO_3S$	All species or categories of animals	—	—	—	—	—
E 954(ii)	Calcium saccharin	$C_7H_3NCaO_3S$						
E 954(iii)	sodium saccharin	$C_7H_4NNaO_3S$						

▼ M78

EEC No	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content mg/kg of complete feeding-stuff		Maximum content	Other provisions
					Minimum content	Maximum content		
▼ M78 E 959	Neohesperidine dihydrochalcone	$C_{28}H_{36}O_{15}$	Piglets Dogs Calves Ovines	4 months — — —	— — — —	35 35 30 30	— — — —	
▼ M81								
▼ M86								
▼ M78	D. Coccidiostats and other medicinal substances							
E 750	Amprolium	1-[4-amino-2-propylpyrimidin-5-yl] methyl-2-methyl-pyridinium chloride hydrochloride	Poultry	—	62,5	125	Use prohibited from laying age onwards and at least 3 days before slaughter respectively	
E 751	Amprolium/ethopabate (mixture of 25 parts of (a) amprolium and 1,6 parts of (b) ethopabate)	a) 1-[4-amino-2-propylpyrimidin-5-yl] methyl-2-methyl-pyridinium chloride hydrochloride b) Methyl-4-acetamido-2-ethoxybenzoate	Chickens, turkeys and guinea-fowl	—	66,5	133	Use prohibited from laying age onwards and at least 3 days before slaughter respectively	
E 752	Dinitolmide (DOT)	3,5-dinitro-2-toluamide	Poultry	—	62,5	125	Use prohibited from laying age onwards and at least 3 days before slaughter respectively	
E 754	Dimetridazole	1,2-dimethyl-5-nitroimidazole	Turkeys Guinea-fowl	— —	100 125	200 150	Use prohibited from laying age onwards and at least 6 days before slaughter respectively Use prohibited from laying age onwards and at least 6 days before slaughter respectively	
E 755	Meticlorpindol	3,5-dichloro-2,6-dimethylpyridin-4-ol	Chickens for fattening, guinea-fowl Rabbits	— —	125 125	125 200	Use prohibited from laying age onwards and at least 6 days before slaughter respectively Use prohibited at least 5 days before slaughter	

▼ **M78**

EEC No	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content mg/kg of complete feeding-stuff		Maximum content	Other provisions
					Minimum content mg/kg of complete feeding-stuff	Maximum content		
E 756	Decoquinat	3-ethoxycarbonyl-4-hydroxy-6-decyloxy-7-ethoxyquinoline	Chickens for fattening	—	20	40	Use prohibited at least 3 days before slaughter	
E 757	Monensin-sodium	$C_{35}H_{60}O_{11}Na$ (sodium salt of polyether monocarboxylic acid produced by <i>Streptomyces cinnamonensis</i>)	Chickens for fattening	—	100	125	Use prohibited at least 3 days before slaughter Indicate in the instructions for use: 'Dangerous for equines' ▶ M81 'This feedingsstuff contains an ionophore: simultaneous use with certain medicinal substances (e.g. tiamulin) can be contra indicated' ▼	
			Chickens reared for laying	16 weeks	100	120	Indicate in the instructions for use 'Dangerous for equines' ▶ M81 'This feedingsstuff contains an ionophore: simultaneous use with certain medicinal substances (e.g. tiamulin) can be contra indicated' ▼	
			Turkeys	16 weeks	90	100	Use prohibited at least 3 days before slaughter Indicate in the instructions for use: 'Dangerous for equines' ▶ M81 'This feedingsstuff contains an ionophore: simultaneous use with certain medicinal substances (e.g. tiamulin) can be contra indicated' ▼	
E 758	Robenidine	1,3-bis[(4-chlorobenzylidene)-amino]-guanidine hydrochloride	Chickens for fattening, turkeys Rabbits for fattening	— —	30 50	36 66	Use prohibited at least 5 days before slaughter Use prohibited at least 5 days before slaughter	
			Rabbits for breeding purposes	—	50	66	Use prohibited at least five days before slaughter	

▼ **M86**

▼ **M86**

EEC No	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content mg/kg of complete feeding-stuff		Maximum content	Other provisions
					Minimum content mg/kg of complete feeding-stuff	Maximum content		
E 759	Ronidazole	(1-methyl-5-nitroimidazol-2-yl)methylcarbamate	Turkeys	—	60	90	Use prohibited from laying age onwards and least 6 days before slaughter respectively	
E 760	Ipronidazole	1-methyl-2-isopropyl-5-nitroimidazole	Turkeys	—	50	85	Use prohibited from laying age onwards and at least 6 days before slaughter respectively	
E 761	Meticlorpindol/methylbenzoate: (mixture of 100 parts of (a) meticlorpindol and 8,35 parts of (b) methylbenzoate)	a) 3,5-dichloro-2,6-dimethylpyridin-4-ol b) 7-benzoyloxy-6-butyl-3-methoxy-carbonyl-4-quinolone	Chickens for fattening	—	110	110	Use prohibited at least 5 days before slaughter	
E 762	Arprinocid	9-(2-chloro-6-fluorobenzyl)adenine	Chickens reared for laying Turkeys	16 weeks 12 weeks	110 110	110 110	Use prohibited at least 5 days before slaughter	
E 763	Lasalocid sodium	$C_{34}H_{53}O_8Na$ (sodium salt of polyether monocarboxylic acid produced by <i>Streptomyces lasaliensis</i>)	Chickens reared for laying Chickens for fattening	—	60 75	60 125	Use prohibited at least 5 days before slaughter. ▲ M81 Indicate in the instructions for use: 'This feedingstuff contains an ionophore; simultaneous use with certain medicinal substances can be contra-indicated' ▼	
			Chickens reared for laying	16 weeks	75	125	Use prohibited at least five days before slaughter	
			Turkeys	12 weeks	90	125	Indicate in the instructions for use: 'This feedingstuff contains an ionophore; simultaneous use with certain medicinal substances can be contra-indicated'	

▼ **M78**▼ **M83**

▼ M83

EEC No	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content mg/kg of complete feeding-stuff		Maximum content	Other provisions
					Minimum content mg/kg of complete feeding-stuff	Maximum content		
E 764	Halofuginone	dl-trans-7-bromo-6-chloro-3-[3-(3-hydroxy-2-piperidyl) acetyl]-quinazolin-4-(3H)-one hydrobromide	Chickens for fattening	—	2	3	Use prohibited at least 5 days before slaughter	
			Turkeys	12 weeks	2	3	Use prohibited at least 5 days before slaughter	
			Chickens for fattening	—	60	70	Use prohibited at least 5 days before slaughter Indicate in the instructions for use: 'Dangerous for equines. ▶ M81 This feedingstuff contains an ionophore: simultaneous use with certain medicinal substances (e.g. tiamulin) can be contra-indicated' ◀	
E 766	Salinomycin sodium	▶ M97 $C_{46}H_{69}O_{11}Na$ (sodium salt of a polyether monocarboxylic acid produced by <i>Streptomyces albus</i>) Elaiophyllin content: less than 42 mg per kg of Salinomycin sodium 17-epi-20-deoxy-salinomycin content: less than 40 mg per kg of Salinomycin sodium ◀	Chickens for fattening	—	50	70	Use prohibited at least 5 days before slaughter Indicate in the instructions for use: 'Dangerous for equines. ▶ M81 This feedingstuff contains an ionophore: simultaneous use with certain medicinal substances (e.g. tiamulin) can be contra-indicated.' ◀	
			Chickens for fattening	4 weeks	100	125	Use prohibited at least 9 days before slaughter	
E 768	Nicarbazin	Equimolecular complex of 1,3-bis (4-nitrophenyl) urea and 4,6-di methyl pyrimidin-2-ol	Chickens for fattening	—	50	75	Use prohibited at least 5 days before slaughter	
E 769	Nifursol	3,5-dinitro-N'-(5-nitrofurfurylidene) salicylohydrazide	Turkeys	—	50	75	Use prohibited at least 5 days before slaughter	

▼ M78

EEC No	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content		Maximum content	Other provisions
					mg/kg of complete feeding-stuff	mg/kg of complete feeding-stuff		
E 770	Maduramicin ammonium	<p>Minimum purity: 98 % on an anhydrous basis. Particular features of the three authorized preparations of the three authorized preparations:</p> <ul style="list-style-type: none"> — maximum nifursol content: 14,6 %, 44 % or 50 % — minimum stability: 24 months — carrier for the three preparations: maize starch and, respectively, 12 %, 33 % or 34 % of soya bean oil <p>$C_{47}H_{83}N_{17}$ (ammonium salt of a polyether monocarboxylic acid produced by <i>Actinonadura yumaensis</i>)</p>	Chickens for fattening	—	5	5	<p>Indicate in the instructions for use</p> <ul style="list-style-type: none"> — Use prohibited at least five days before slaughter — Dangerous for Equidae' <p>'This feedingstuff contains an ionophore; simultaneous use with certain medicinal substances (e.g. tiamulin) can be contra-indicated'</p>	
E 771	Diclazuril	(+)-4-chlorophenyl (2,6-dichloro-4-(2,3,4,5-tetrahydro-3,5-dioxo-1,2,4-triazin-2-yl-phenyl) acetone nitrile	Chickens for fattening	—	1	1	<p>Use prohibited at least five days before slaughter</p>	
E 772	Narasin/Nicarbazin (mixture of (a) narasin and (b) nicarbazin in a 1/1 ratio	<p>(a) $C_{43}H_{72}O_{11}$ (polyether monocarboxylic acid produced by <i>Streptomyces aureofaciens</i>), in granular form</p> <p>(b) Equimolecular complex of 1,3 bis (4-nitrophenyl) urea and 4,6-dimethyl pyrimidin-2-ol, in granular form</p>	Chickens for fattening	—	80	100	<p>Use prohibited at least five days before slaughter.</p> <p>Indicate in the instructions for use:</p> <ul style="list-style-type: none"> — 'Dangerous for equines' — 'This feedingstuff contains an ionophore; simultaneous use with certain medicinal substances (e.g. tiamulin) can be contra-indicated' 	

▼ M78

▼ M83

▼ M88

▼ M94

▼ **M94**

EEC No	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content mg/kg of complete feeding-stuff		Maximum content	Other provisions
					Minimum content mg/kg of complete feeding-stuff	Maximum content		

▼ **M78**

E 322	E. Emulsifiers, stabilizers, thickeners and gelling agents Lecithins	—	All species or categories of animals	—	—	—	}	}
E 400	Alginic acid	—						
E 401	Sodium alginate	—	All species or categories of animals with the exception of aquarium fish	—	—	—	}	}
E 402	Potassium alginate	—						
E 403	Ammonium alginate	—						
E 404	Calcium alginate	—	}	—	—	—	}	}
E 405	Propane-1,2-diol alginate (Propyleneglycol alginate)	—						
E 406	Agar	—	}	—	—	—	}	}
E 407	Carrageenan	—						
E 408	Furcelleran	—	All species or categories of animals	—	—	—	}	}
E 410	Locust bean gum (Carob gum)	—						
E 411	Tamarind seed flour	—	}	—	—	—	}	}
E 412	Guar gum	—						
E 413	Tragacanth	—	}	—	—	—	}	}
E 414	Acacia (Gum arabic)	—						
E 415	Xanthan gum	—						
E 418	Gellan gum	Polytetrasaccharide containing glucose, glucuronic acid and rhamnose (2:1:1) produced by <i>Pseudomonas elodea</i> (ATCC 31466)	Dogs, cats	—	—	—	Only canned feedingstuffs	

▼ **M90**

EEC No	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content mg/kg of complete feeding-stuff		Maximum content	Other provisions
					Minimum content	Maximum content		
E 420	Sorbitol	—	All species or categories of animals	—	—	—	All feedingstuffs	
E 421	Mannitol	—		—	—	—		
E 422	Glycerol	—		—	—	—		
E 432	Polyoxyethylene (20)-sorbitan monolaurate	—	All species or categories of animals	—	—	5 000 (alone or with the other polysorbates)	Milks replacers only	
E 433	Polyoxyethylene (20)-sorbitan Monooleate	—		—	—			
E 434	Polyoxyethylene (20)-sorbitan monopalmitate	—		—	—			
E 435	Plyoxyethylene (20)-sorbitan monostearate	—		—	—			
E 436	Polyoxyethylene (20)-sorbitan tristearate	—	All species or categories of animals	—	—	5 000	All feedingstuffs	
E 440	Pectins	—		—	—			
E 450 b(i)	Pentasodium triphosphate	—	Dogs, cats	—	—	—	—	
E 460	Microcrystalline cellulose	—	All species or categories of animals	—	—	—	—	
E 460 (ii)	Cellulose powder	—	—	—	—	—	—	

▼ **M90**▼ **M78**▼ **M86**

▼ **M86**

EEC No	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content mg/kg of complete feeding-stuff		Maximum content	Other provisions
					Minimum content mg/kg of complete feeding-stuff	Maximum content		

▼ **M78**

E 461	Methylcellulose	—	All species or categories of animals	—	—	—	All feedingstuffs
E 462	Ethylcellulose	—		—	—	—	
E 463	Hydroxypropylcellulose	—		—	—	—	
E 464	Hydroxypropylmethylcellulose	—		—	—	—	
E 465	Ethylmethylcellulose	—		—	—	—	
E 466	Carboxymethylcellulose (sodium salt of carboxymethyl ether of cellulose)	—		—	—	—	
E 470	Sodium, potassium and calcium salts of edible fatty acid, alone or in mixtures, derived either from edible fats or from distilled edible fatty acids	—		—	—	—	
E 471	Mono- and diglycerides of fatty acids	—		—	—	—	
E 472	Mono- and diglycerides of edible fatty acids esterified with the following acids	—		—	—	—	
	a) acetic	—		—	—	—	
	b) lactic	—		—	—	—	
	c) citric	—		—	—	—	
	d) tartaric	—		—	—	—	
	e) mono- and diacetyl/tartaric	—		—	—	—	

▼ M78

EEC No	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content mg/kg of complete feeding-stuff		Maximum content	Other provisions	
					Minimum content mg/kg of complete feeding-stuff	Maximum content			
E 473	Sucrose esters of fatty acids (esters of saccharose and edible fatty acids)	—	All species or categories of animals	—	—	—	All feedingstuffs		
E 474	Sucroglycerides (mixture of esters of saccharose and mono- and diglycerides of edible fatty acids)	—		—	—	—			
E 475	Polyglycerol esters of non-polymerized edible fatty acids	—		—	—	—			
E 477	Mono-esters of propane-1,2-diol (propyleneglycol) and edible fatty acids, alone or in mixtures with diesters	—		—	—	—			
E 480	Stearoyl-2-lactylic acid	—		—	—	—			
E 481	Sodium stearyl-2-lactylate	—		—	—	—			
E 482	Calcium stearyl-2-lactylate	—		—	—	—			
E 483	Stearyl tartrate	—		—	—	—			
E 484	Glyceryl polyethylene-glycol ricinoleate	—		—	—	—			
E 486	Dextrans	—		Calves	—	—		6 000	
E 487	Polyethyleneglycol ester of fatty acids from soya oil	—		Calves	—	—		5 000	
E 488	Polyoxyethylated glyceride of tallow fatty acids	—		Calves	—	—		5 000	
E 489	Ether of polyglycerol and of alcohols obtained by the reduction of oleic and palmitic acids	—		Calves	—	—		5 000	Milks replacers only

▼ **M78**

EEC No	Additive	Chemical formula, description	Species or category of animal	Maximum age	Maximum content		Other provisions
					Minimum content mg/kg of complete feeding-stuff	Maximum content	
E 490	Propane-1,2-diol	—	Dairy cows	—	—	12 000	All feedingstuffs
E 491	Sorbitan monostearate	—	Cattle for fattening, calves, lambs, kids, pigs, poultry	—	—	36 000	
E 492	Sorbitan tristearate	—		—	—	—	
E 493	Sorbitan monolaurate	—	All species or categories of animals	—	—	—	
E 494	Sorbitan monooleate	—		—	—	—	
E 495	Sorbitan monopalmitate	—		—	—	—	
E 496	Polyethyleneglycol 6000	—		—	—	300	
E 497	Polyoxypropylene-polyoxyethylene polymers (M. W.6800-9000)	—	—	—	—	50	
E 498	Partial polyglycerol esters of polycondensed fatty acids of castor oil	—	Dogs	—	—	—	
E 499	Cassia gum	—	Dogs and cats	—	—	17 600	

▼ **M87**▼ **M90****F. Colouring matters including pigments**

E 160c	Copsanthin	$C_{40}H_{56}O_3$	Poultry	—	—	80 (alone or with the other carotenoids and xanthophylls)
E 160e	Beta-apo-8'-carotenal	$C_{30}H_{40}O$		—	—	
E 160f	Ethyl ester of beta-apo-8'-carotenoic acid	$C_{32}H_{44}O_2$		—	—	
E 161b	Lutein	$C_{40}H_{56}O_2$	(a) Poultry	—	—	—
E 161c	Cryptoxanthin	$C_{40}H_{56}O$		—	—	
E 161g	Canthoxanthin	$C_{40}H_{52}O_2$		—	—	

▼ M90

EEC No	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content mg/kg of complete feedingsstuff		Maximum content	Other provisions
					Minimum content mg/kg of complete feedingsstuff	Maximum content		
			(b) Salmon, trout	—	—	80	Use permitted from the age of six months onwards. The mixture of canthaxanthin with astaxanthin is allowed provided that the total concentration of the mixture does not exceed 100 mg/kg in the complete feedingsstuff	
E 161h	Zeaxanthin	$C_{40}H_{56}O_2$	c) Dogs, cats and ornamental fish Poultry Laying hens	—	—	80 (alone or with the other carotenoids and xanthophylls)	—	
E 161i	Citranaxanthin	$C_{33}H_{44}O$		—	—		100	—
E 161j	Astaxanthin	$C_{40}H_{52}O_4$	a) Salmon, trout	—	—	—	Use only permitted from the age of six months onwards. The mixture of astaxanthin with canthaxanthin is allowed provided that the total concentration of the mixture does not exceed 100 mg/kg in the complete feedingsstuff	
			b) Ornamental fish	—	—	—	—	
	2. Other colourants:		} Ornamental fish					
E 102	Tartrazine	$C_{16}H_9N_4O_9S_2Na_3$						
E 110	Sunset yellow FCF	$C_{16}H_{10}N_2O_7S_2Na_2$						
E 124	Ponceau 4 R	$C_{20}H_{11}N_2O_{10}S_3Na_3$						
E 127	Erythrosine	$C_{20}H_{11}O_{10}Na_2H_2O$						

▼ M90

EEC No	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content mg/kg of complete feeding-stuff		Maximum content	Other provisions
					Minimum content mg/kg of complete feeding-stuff	Maximum content		
E 131	Patent Blue V	Calcium salt of the disulphonic acid of m-hydroxytetraethyldiamino triphenylcarbinol anhydride	a) All species or categories of animals with the exception of dogs and cats	—	—	—	Permitted in animal feedingsuffs only in products processed from: i) waste products of feeding-stuffs; ii) denatured cereals or manioc flour; or iii) other base substances denatured by means of these agents or coloured during technical preparation to ensure the necessary identification during manufacture	
E 132	Indigotine	$C_{16}H_8N_2O_8Na_2$	b) Dogs and cats	—	—	—	—	
E 141	Chlorophyll copper complex	—	Ornamental fish	—	—	—	—	
E 142	Acid brilliant green BS (Lissamine green)	Sodium salt of 4,4'-bis (dimethylamino) diphenylmethylen-2-naphthol-3,6-disulphonic acid	Ornamental fish a) All species or categories of animals with the exception of dogs, cats and ornamental fish b) Dogs, cats and ornamental fish	—	—	—	Permitted in animals feedingsuffs only in products processed from: i) waste products of foodstuffs; ii) denatured cereals or manioc flour; or iii) other base substances denatured by means of these agents or coloured during technical preparation to ensure the necessary identification during manufacture	
E 153	Carbon black	C	b) Dogs, cats and ornamental fish	—	—	—	—	
E 160 B	Bixin	$C_{25}H_{30}O_4$	} Ornamental fish	—	—	—	—	
E 172	Iron oxide, red	Fe_2O_3		—	—	—	—	

▼ **M90**

EEC No	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content mg/kg of complete feeding-stuff		Maximum content	Other provisions
					Minimum content mg/kg of complete feeding-stuff	Maximum content		
3.	Colouring agents authorized for colouring foodstuffs by Community rules, other than Patent blue V and Acid brilliant green BS	—	a) All species or categories of animals with the exception of dogs and cats b) Dogs and cats	—	—	—	Permitted in animal feedingstuffs only in products processed from: i) waste products of foodstuffs; or ii) other base substances, with the exception of cereals and manioc flour, denatured by means of these agents of colour during technical preparation to ensure the necessary identification during manufacture	

▼ **M78**

EEC No	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content mg/kg of complete feeding-stuff		Maximum content	Other provisions
					Minimum content mg/kg of complete feeding-stuff	Maximum content		
G. Preservatives								
E 200	Sorbic acid	$C_6H_8O_2$	All species or categories of animals	—	—	—	All feedingstuffs	
E 201	Sodium sorbate	$C_6H_7O_2Na$		—	—	—		
E 202	Potassium sorbate	$C_6H_7O_2K$	—	—	—			
E 203	Calcium sorbate	$C_{12}H_{14}O_4Ca$	—	—	—			
E 214	Ethyl 4-hydroxybenzoate	$C_9H_{10}O_3$	Pets	—	—	All feedingstuffs		
E 215	Sodium ethyl 4-hydroxybenzoate	$C_9H_9O_3Na$		—	—			—
E 216	Propyl 4-hydroxybenzoate	$C_{10}H_{12}O_3$	—	—	—			
E 217	Sodium propyl 4-hydroxybenzoate	$C_{10}H_{11}O_3Na$	—	—	—			
E 218	Methyl 4-hydroxybenzoate	$C_8H_8O_3$	—	—	—			
E 219	Sodium methyl 4-hydroxybenzoate	$C_8H_7O_3Na$	—	—	—			

▼ M78

EEC No	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content mg/kg of complete feeding-stuff		Maximum content	Other provisions					
					Minimum content mg/kg of complete feeding-stuff	Maximum content							
E 222	Sodium bisulphite	NaHSO ₃	Dogs, cats	—	—	—	alone or together: 500 expressed as SO ₂	All feedingstuffs except unprocessed meat and fish					
E 223	Sodium metabisulphite	Na ₂ S ₂ O ₅											
E 236	Formic acid	CH ₂ O ₂	All species or categories of animals	—	—	—	—	All feedingstuffs					
E 237	Sodium formate	CHO ₂ Na											
E 238	Calcium formate	C ₂ H ₂ O ₄ Ca											
E 240	Formaldehyde	CH ₂ O	Pigs	6 months	—	—	—	Skimmed milk only: maximum content: 600 mg/kg					
E 250	Sodium nitrate	NaNO ₂	All species or categories of animals	► C7 —	► C7 —	► C7 —	► C7 —	► C7 For silage only ◀					
E 260	Acetic acid	C ₂ H ₄ O ₂											
E 261	Potassium acetate	C ₂ H ₃ O ₂ K	Dogs, cats	—	—	—	100	Canned feedingstuffs only					
E 262	Sodium diacetate	C ₄ H ₇ O ₄ Na											
E 263	Calcium acetate	C ₄ H ₆ O ₄ Ca	All species or categories of animals	—	—	—	—	All feedingstuffs					
E 270	Lactic acid	C ₃ H ₆ O ₃											
E 280	Propionic acid	C ₃ H ₆ O ₂											
E 281	Sodium propionate	C ₃ H ₅ O ₂ Na											
E 282	Calcium propionate	C ₆ H ₁₀ O ₄ Ca											
E 283	Potassium propionate	C ₃ H ₅ O ₂ K											
E 284	Ammonium propionate	C ₃ H ₉ O ₂ N											
E 285	Methylpropionic acid	C ₄ H ₈ O ₂							Ruminants, at the beginning of rumination	—	1 000	4 000	—

▼ M85

▼ **M85**

EEC No	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content mg/kg of complete feeding-stuff		Maximum content	Other provisions
					Minimum content	Maximum content		
E 295	Ammonium formate	$\text{CH}_3\text{O}_2\text{N}$	All species or categories of animals	—	—	—	—	All feedingstuffs
E 296	DL-malic acid	$\text{C}_4\text{H}_6\text{O}_5$						
E 297	Fumaric acid	$\text{C}_4\text{H}_4\text{O}_4$						
E 325	Sodium lactate	$\text{C}_3\text{H}_5\text{O}_3\text{Na}$						
E 326	Potassium lactate	$\text{C}_3\text{H}_5\text{O}_3\text{K}$						
E 327	Calcium lactate	$\text{C}_6\text{H}_{10}\text{O}_6\text{Ca}$						
E 330	Citric acid	$\text{C}_6\text{H}_8\text{O}_7$						
E 331	Sodium citrates	—						
E 332	Potassium citrates	—						
E 333	Calcium citrates	—						
E 334	L-Tartaric acid	$\text{C}_4\text{H}_6\text{O}_6$						
E 335	Sodium L-tartrates	—						
E 336	Potassium L-tartrates	—						
E 337	Potassium sodium L-tartrate	$\text{C}_4\text{H}_4\text{O}_6\text{KNa}\cdot 4\text{H}_2\text{O}$						
E 338	Orthophosphoric acid	H_3PO_4	Dogs	—	—	—	—	—
E 490	Propane-1,2-diol	$\text{C}_3\text{H}_8\text{O}_2$						
E 507	Hydrochloric acid	HCl	All species or categories of animals	—	—	—	—	For silage only
E 513	Sulphuric acid	H_2SO_4						

(1) According to the method of analysis of the British Pharmacopoeia (Veterinary 1985)

(2) Reference: Fresenius Z. Anal. Chem. (1984) 318: 522-4, Springer Verlag 1984.

EEC No	Additive	Chemical formula, description	Species or category of animal	Maximum age	Maximum content in/kg of complete feedingstuff or of the daily ration	Other provisions
▼ M78	H. Vitamins, provitamins and chemically well defined substances having a similar effect					
▼ M79	1. Vitamin A	—	Chickens for fattening Ducks for fattening Turkeys for fattening Lambs for fattening Pigs for fattening Bovines for fattening ▶ C6 Calves for fattening ▼ Other species or categories of animals	— — — — — — — —	13 500 13 500 13 500 13 500 13 500 13 500 25 000 —	All feedingstuffs except feedingstuffs for young animals Only milk replacers All feedingstuffs
▼ M78	2. <i>Vitamin D</i> Vitamin D ₂	—	Pigs Piglets Bovines Ovines Calves Equines ▶ M81 Other species or categories of animals with the exception of poultry and fish ▼	— — — — — — —	2 000 10 000 4 000 4 000 10 000 4 000 2 000	Milk replacers only Milk replacers only Milk replacers only Milk replacers only Milk replacers only Simultaneous use of vitamin D ₃ prohibited

▼ **M78**

EEC No	Additive	Chemical formula, description	Species or category of animal	Maximum age	Maximum content (µ/kg of complete feedingstuff or of the daily ration)	Other provisions
E 671	1. Vitamin D ₃	—	Pigs Piglets Bovines Ovines Calves Equines Chickens for fattening Turkeys Other Poultry ▶ <u>M81</u> Fish ◀	— — — — — — — — — — ▶ <u>M81</u> — ◀	2 000 10 000 4 000 4 000 10 000 4 000 5 000 5 000 3 000 ▶ <u>M81</u> 3 000 ◀	— Milk replacers only — — Milk replacers only — — — — — — Simultaneous use of vitamin D ₂ prohibited
	3. All substances in the group except vitamins A and D	—	Other species or categories of animals All species or categories of animals	— —	2 000 —	— All feedingstuffs

▼ **M78**

EEC No	Element	Additive	Chemical formula	Maximum content of the element in mg/kg of the complete feedingstuff	Other provisions
E 1	I. Trace elements Iron — Fe	Ferrous carbonate Ferrous chloride, tetrahydrate Ferric chloride, hexahydrate Ferrous citrate, hexahydrate Ferrous fumarate Ferrous lactate, trihydrate Ferric oxide Ferrous sulphate, monohydrate	FeCO_3 $\text{FeCl}_2 \cdot 4\text{H}_2\text{O}$ $\text{FeCl}_3 \cdot 6\text{H}_2\text{O}$ $\text{Fe}_3(\text{C}_6\text{H}_5\text{O}_7)_2 \cdot 6\text{H}_2\text{O}$ $\text{FeC}_4\text{H}_2\text{O}_4$ $\text{Fe}(\text{C}_3\text{H}_5\text{O}_3)_3 \cdot 3\text{H}_2\text{O}$ Fe_2O_3 $\text{FeSO}_4 \cdot \text{H}_2\text{O}$	1 250 (total)	<p> ▲ M79 Permitted: ▼ ▲ M79 i) ▼ ▲ M79 in denatured skimmed milk and in compound feedingstuffs manufactured from denatured skimmed-milk powder: ▼ — ▲ M79 subject to the mandatory provisions of Commission Regulations (EEC) No 368/77 and (EEC) No 443/77 ▼ — ▲ M79 declaration of the amount of iron added, expressed as the element, on the label or package or container of denatured skimmed-milk powder ▼ ▲ M79 ii) ▼ ▲ M79 in compound feedingstuffs other than those listed under (i) ▼ </p>

EEC No	Element	Additive	Chemical formula	Maximum content of the element in mg/kg of the complete feedingstuff	Other provisions
▼ M78		Ferrous sulphate, heptahydrate	$\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$		Permitted: i) in denatured skimmed milk and in compound feedingstuffs manufactured from denatured skimmed milk powder: — subject to the mandatory provisions of Commission Regulations (EEC) N° 368/77 and (EEC) N° 443/77 — declaration of the amount of iron added, expressed as the element, on the label or package or container of denatured skimmed milk powder ii) in compound feedingstuffs other than those listed under (i)
▼ M81		Ferrous chelate of amino acids hydrate	$\text{Fe} \cdot (\text{X})_{1-3} \cdot n\text{H}_2\text{O}$ (where X equals an anion of any amino acids derived from hydrolyzed soya protein) molecular weight not exceeding 1 500	—	
▼ M97	Iodine-I	Calcium iodate hexahydrate Calcium iodate, anhydrous Sodium iodide Potassium iodide	$\text{Ca}(\text{IO}_3)_2 \cdot 6\text{H}_2\text{O}$ $\text{Ca}(\text{IO}_3)_2$ NaI KI	Equines: 4 (total) Fish: 20 (total) Other species or categories of animal: 10 (total)	
▼ M78	Cobalt — Co	Cobaltous acetate, tetrahydrate Basic cobaltous carbonate, monohydrate Cobaltous chloride, hexahydrate Cobaltous sulphate, heptahydrate Cobaltous sulphate, monohydrate	$\text{Co}(\text{CH}_3\text{COO})_2 \cdot 4\text{H}_2\text{O}$ $2\text{CoCO}_3 \cdot 3\text{Co}(\text{OH})_2 \cdot \text{H}_2\text{O}$ $\text{CoCl}_2 \cdot 6\text{H}_2\text{O}$ $\text{CoSO}_4 \cdot 7\text{H}_2\text{O}$ $\text{CoSO}_4 \cdot \text{H}_2\text{O}$	10 (total)	

▼ M78

EEC No	Element	Additive	Chemical formula	Maximum content of the element in mg/kg of the complete feedingstuff	Other provisions
E 4	Copper — Cu	Cobaltous nitrate, hexahydrate Cupric acetate, monohydrate Basic cupric carbonate, monohydrate Cupric chloride, dihydrate Cupric methionate Cupric oxide Cupric sulphate, pentahydrate	$\text{Co}(\text{NO}_3)_2 \cdot 6\text{H}_2\text{O}$ $\text{Cu}(\text{CH}_3\text{COO})_2 \cdot \text{H}_2\text{O}$ $\text{CuCO}_3 \cdot \text{Cu}(\text{OH})_2 \cdot \text{H}_2\text{O}$ $\text{CuCl}_2 \cdot 2\text{H}_2\text{O}$ $\text{Cu}(\text{C}_5\text{H}_{10}\text{NO}_2\text{S})_2$ CuO $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$	Pigs for fattening: — in Member States where the mean density of the porcine population is equal to or higher than 175 pigs per 100 ha of utilizable agricultural land: — up to 16 weeks: 175 (total) — from 17th week up to slaughter: 35 (total) — In Member States where the mean density of the porcine population is lower than 175 pigs per 100 ha of utilizable agricultural land: — up to 16 weeks: 175 (total) — from 17th week up to six months: 100 (total) — over six months up to slaughter: 35 (total) Breedings pigs: 35 (total) Calves: — milk replacers: 30 (total) — other complete feedingstuffs: 50 (total) Ovines: 15 (total) Other species or categories of animals: 35 (total)	

▼ M78

EEC No	Element	Additive	Chemical formula	Maximum content of the element in mg/kg of the complete feedingstuff	Other provisions
E 5	Manganese — Mn	Cupric sulphate, monohydrate	CuSO ₄ ·H ₂ O	Pigs for fattening: — In Member States where the mean density of the porcine population is equal to or higher than 175 pigs per 100 ha of utilizable agricultural land: — up to 16 weeks: 175 (total) — from 17th week up to slaughter: 35 (total) — In Member States where the mean density of the porcine population is lower than 175 pigs per 100 ha of utilizable agricultural land: — up to 16 weeks: 175 (total) — from 17th week up to six months: 100 (total) — over six months up to slaughter: 35 (total) Breeding pigs: 35 (total) Ovines: 15 (total) Other species or categories of animals with the exception of calves: 35 (total) 250 (total)	Denatured skimmed milk powder and compound feedingsuffs manufactured from denatured skimmed milk powder: — Subject to the relevant provisions of Commission Regulations (EEC) No 368/77 and (EEC) No 443/77 — Declaration of the amount of copper added, expressed as the element on the label or package or the container of denatured skimmed milk powder
		Cupric sulphate, pentahydrate	CuSO ₄ ·5H ₂ O		
		Manganous carbonate	MnCO ₃		—
		Manganous chloride, tetrahydrate	MnCl ₂ ·4H ₂ O		—
		Manganous hydrogen phosphate, trihydrate	MnHPO ₄ ·3H ₂ O		—
		Manganous oxide	MnO		—
		Manganic oxide	Mn ₂ O ₃		—

▼ M78

EEC No	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content mg/kg of complete feeding-stuff		Maximum content	Other provisions
E 850	J. Growth promoters Carbadox	Methyl-3-(2-quinoxalylmethylene) carbazate N ₁ , N ⁴ -dioxide Minimum purity: 96 % Characteristics of the authorized preparations: — carbadox content: 5 or 10 % — minimum stability: 24 months — propionic acid: 0,5 % — soya bean oil: 7 % — soya bean mill run: up to 100 %	Piglets	4 months	20	50	50	Use prohibited at least 4 weeks before slaughter Maximum amount of dust emitted during handlings as determined by the Stauber Heubach method (1): 0,1 µg carbadox Indication on the label of the additives, premixtures and feedingstuffs of safety instructions and warnings designed to protect the health of operatives and in particular to avoid any exposure to the additive, especially by touch or inhalation
E 851	Olaquinox	2-[N-2'-(hydroxyethyl) carbamoyl]-3-methylquinoxaline-N ₁ ,N ₄ -dioxide Minimum purity: 98 % Characteristics of the authorized preparation: — olaquinox content: 10 % — minimum stability: 24 months — medium: calcium carbonate containing 1,5 % of glyceril polyethyleneglycol ricinoleate	Piglets	4 months 4 months	15 50 (2)	50 100 (2)	▶ M97 Use prohibited at least four weeks before slaughter ▼ ▶ M97 Maximum amount of dust emitted during handling as determined by the Stauber Heubach method (1): 0,1 µg olaquinox. Indication on the label of the additives, premixtures and feedingstuffs of safety instructions and warnings designed to protect the health of operatives and in particular to avoid any exposure to the additive, especially by touch or inhalation with the mention 'Warning: Risk of photoallergy for people so predisposed' ▼	

▼ M78

EEC No	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content mg/kg of complete feeding-stuff		Other provisions
					Minimum content	Maximum content	
	L. Binders, anti-caking agents and coagulants						
E 330	Citric acid	$C_6H_8O_7$	All species or categories of animals	—	—	—	All feedingstuffs. Compliance with the provisions of Article 16 (1) (g)
E 470	Sodium, potassium and calcium stearates	$C_{18}H_{35}O_2Na$, $C_{18}H_{33}O_2K$ and $C_{36}H_{70}O_4Ca$		—	—	—	
E 516	Calcium sulphate, dihydrate	$CaSO_4 \cdot 2H_2O$		—	—	30 000	
E 551a	Silicic acid, precipitated and dried	—		—	—	—	
E 551b	Colloidal silica	—		—	—	—	
E 551c	Kieselgur (diatomaceous earth, purified)	—		—	—	—	
E 552	Calcium silicate, synthetic	—		—	—	—	
► M91 E 562 ▼	Sepiolite	Hydrated magnesium silicate of sedimentary origin, containing at least 60 % sepiolite and a maximum of 30 % montmorillonite. Asbestos free		—	—	20 000	
E 554	Sodium aluminosilicate, synthetic	—		—	—	—	

▼ **M78**

EEC No	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content		Maximum content	Other provisions
					mg/kg of complete feeding-stuff	mg/kg of complete feeding-stuff		
E 558	Bentonite/montmorillonite	—	All species or categories of animals	—	—	20 000	All feedingstuffs. Mixing with additives from the groups of 'antibiotics', 'growth promoters, coccidiostats and other medicinal substances is prohibited except in the case of: tylosin phosphate, monensin sodium, narasin, ipronidazole, lasalocid sodium, avoparcin, flavophospholipol, salinamycin sodium, ronidazole, virginiamycin, nicarbazin, ► M83 robenidine, maduramicin ammonium ◀ Indication on the label of the specific name of the additive.	
E 559	Kaolinitic clays, free of asbestos	Naturally occurring mixtures of minerals containing at least 65 % complex hydrated aluminium silicates whose main constituent is kaolinite		—	—	—		
E 560	Natural mixtures of steatite and chlorite	Natural mixtures of steatite and chlorite, free of asbestos: minimum purity of the mixture: 85 %		—	—	—		
E 561	Vermiculite	Natural silicate of magnesium, aluminium and iron, expanded by heating, free of asbestos Maximum fluorine content: 0,3 %		—	—	—		
E 563	Septiolitic clay	Hydrated magnesium silicate of sedimentary origin, containing at least 40 % sepiolite and 25 % illite. Asbestos free.		—	—	20 000		
E 565	Lignosulphonates	—	—	—	—	—	—	

▼ **M91**▼ **M78**

EEC No	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content mg/kg of complete feeding-stuff		Maximum content	Other provisions
					Minimum content mg/kg of complete feeding-stuff	Maximum content		
E 598	Synthetic calcium aluminates	Mixture of calcium aluminates containing between 35 and 51 % of Al_2O_3 Maximum molybdenum content of 20mg/kg	Poultry, rabbits and Pigs	—	—	20 000	All feedingstuffs	
E 599	Perlite	Natural silicate of sodium and aluminium, expanded by heating, free of asbestos	All species or categories of animals	—	—	—		

▼ **M78**▼ **M83**▼ **M78**

▼ M78

EEC No	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content mg/kg of complete feeding-stuff		Maximum content	Other provisions
	M. Acidity regulators							
E 170	Calcium carbonate							
296	DL- and L-malic acid							
—	Ammonium dihydrogen orthophosphate							
—	Ammonium hydrogen orthophosphate							
E 339(i)	Sodium dihydrogen orthophosphate							
E 339(ii)	di Sodium hydrogen orthophosphate							
E 339(iii)	tri Sodium orthophosphate							
E 340(i)	Potassium dihydrogen orthophosphate		Dogs, cats					
E 340(ii)	di Potassium hydrogen orthophosphate							
E 340(iii)	tri Potassium orthophosphate							
E 341(i)	Calcium tetrahydrogen diorthophosphate							
E 341(ii)	Calcium hydrogen orthophosphate							
E 350(i)	Sodium malate (salt of DL- or L-Malic acid)							
E 450a(i)	di Sodium dihydrogen diphosphate							

▼ **M78**

EEC No	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content mg/kg of complete feeding-stuff		Maximum content	Other provisions
E 450a(iii)	tetra Sodium diphosphate		Dogs, cats					
E 450a(iv)	tetra Potassium diphosphate							
E 450b(i)	penta Sodium triphosphate							
E 450b(ii)	penta Potassium triphosphate							
500(i)	Sodium carbonate							
500(ii)	Sodium hydrogen carbonate							
500(iii)	Sodium sesquicarbonate							
501(ii)	Potassium hydrogen carbonate							
503(i)	Ammonium carbonate							
503 (ii)	Ammonium hydrogen carbonate							
507	Hydrochloric acid		Dogs and cats					
510	Ammonium chloride							
513	Sulphuric acid							
524	Sodium hydroxide							
E 525	Potassium hydroxide	—	Dogs and cats	—	—	—	—	—
E 526	Calcium hydroxide	—	Dogs and cats	—	—	—	—	—
529	Calcium oxide		Dogs, cats					
540	di Calcium diphosphate							

▼ **M90**▼ **M78**▼ **B**

(1) Reference: Fresenius Z. Anal. Chem. (1984) 318: 522-524, Springer Verlag 1984.

(2) Reference: Fresenius Z. Anal. Chem. (1984) 318: 522-4, Springer Verlag 1984.

(3) Milk replacers only.

ANNEX II

No	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content		Maximum content	Other provisions	Period of authorization
					mg/kg of complete feedingsstuff	mg/kg of complete feedingsstuff			
22	A. Antibiotics Avoparcin	$C_{53}H_{36}O_{30}N_6Cl_3$ (Glycopeptide)	Lambs from the beginning of rumination with the exception of pasture-grazed lambs	16 weeks	10	20	—	► <u>M84</u> 7. 4. 1993 ▼	
			Dairy cattle	—	4	10	Indicate in the instruction for use: 'The quantity of avoparcin in the daily ration must not exceed 100 mg and, for reasons of efficacy, must not be less than 50 mg'	► <u>M92</u> 8. 4. 1995 ▼	
27	Salinomycin sodium	$C_{47}H_{69}O_{11}Na$ (Sodium salt of a polyether monocarboxylic acid produced by <i>Streptomyces albus</i>)	Piglets	4 months	30	60	Indicate in the instructions for use: 'Dangerous for equines'	► <u>M82</u> 30. 11. 1992 ▼	
			Pigs	6 months	15	30		► <u>M82</u> 30. 11. 1992 ▼	
28	Avilamycin	$C_{57,60}H_{83,90}Cl_{1,2}O_{31,32}$ (Mixtures of oligosaccharides of the orthosomycin group produced by <i>Streptomyces viridochromogenes</i>)	Piglets	4 months	20	40	—	► <u>M84</u> 30. 3. 1993 ▼	
			Pigs	6 months	10	20	—	► <u>M84</u> 30. 3. 1993 ▼	
			Chickens for fattening	—	2,5	10	—	► <u>M92</u> 19. 7. 1995 ▼	

No	Additive	Chemical formula, description	Species or category of animal	Maximum age	Maximum content		Other provisions	Period of authorization
					Minimum content	mg/kg of complete feedingsstuff		
29	Efrotamycin	$C_{59}H_{88}N_2O_{20}$	Piglets Pigs	Four months Six months	4 4	8 6	— —	► M95 18. 4. 1996 ▼ ► M95 18. 4. 1996 ▼
30	Virginiamycin	I $C_{28}H_{35}O_7N_3$ II $C_{43}H_{49}O_{10}N_7$	Sows	—	20	40	—	► M95 30. 11. 1996 ▼
31	Bacitracin zinc	$C_{66}H_{103}O_{16}N_{17}SZn$ (Polypeptide containing 12 to 20 % zinc)	Chickens for fattening Pigs	— 6 months	5 5	50 50	— —	► M95 30. 11. 1996 ▼ ► M95 30. 11. 1996 ▼
32	Ardacin	$C_{81-83}H_{80-84}Na_2N_8O_{30}Cl_4$ (Glycopeptide) Na salt of 10 component complex: Factor A: 16-36 % Factor B: 15-30 % Components C+C ₁ : 20-50 % Component C ₂ : 5-14 % Component D: 0-5 % HP-4: 0-10 % produced by Kibdelosporangium aridum (ATCC 39323). Ardacin content in the authorized preparation: 25 %	Chickens for fattening	—	3	7	—	► M95 30. 11. 1996 ▼

▼ **M78**▼ **M79**▼ **M86**▼ **M91**▼ **M93**

▼ **M93**

No	Additive	Chemical formula, description	Species or category of animal	Maximum age	Maximum content		Other provisions	Period of authorization
					Minimum content mg/kg of complete feedstuff	Maximum content		
B. Antioxidants								
D. Coccidiostats and other medicinal substances								
16	Meticlorpindol/methylbenzoate: (mixture of 100 parts of (a) meticlorpindol and 8,35 parts of (b) methylbenzoate)	a) 3,5-Dichloro-2,6-dimethyl-4-pyridinol b) 7-benzoyloxy-6-butyl-3-methoxy-carbonyl-4-quinolone	Rabbits	—	220	220	Use prohibited at least 5 days before slaughter	► M82 30. 11. 1992 ▼
20	Lasalocid sodium	$C_{34}H_{53}O_8Na$ (sodium salt of a polyether monocarboxylic acid produced by <i>Streptomyces lasaliensis</i>)	Turkeys	12 weeks	90	125	Use prohibited at least 5 days before slaughter ► M81 Indicate in the instructions for use: 'This feedstuff contains an ionophore: simultaneous use with certain medicinal substances can be contra indicated' ▼	► M82 30. 11. 1992 ▼
21	Maduramicin ammonium	$C_{24}H_{43}O_{17}N$ (ammonium salt of a polyether monocarboxylic acid produced by <i>Actinomyadura yumaensis</i>)	Chickens for fattening	—	5	5	Indicate in the instructions for use: — Use prohibited at least 7 days before slaughter — Dangerous for equines. ► M81 'This feedstuff contains an ionophore: simultaneous use with certain medicinal substances can be contra indicated' ▼	► M84 30. 3. 1993 ▼
22	Robenidine	1,3-bis[(4-chlorobenzylidene)-amino] guanidine hydrochloride	Rabbits for breeding purposes	—	50	66	Mixture of maduramicin ammonium with bentonite montmorillonite is allowed Use prohibited at least 5 days before slaughter	► M88 30. 3. 1994 ▼

▼ **M78**

▼ **M78**

No	Additive	Chemical formula, description	Species or category of animal	Maximum age	Maximum content		Other provisions	Period of authorisation
					Minimum content mg/kg of complete feedingsstuff	Maximum content		
23	Narasin/Nicarbazin (mixture of (a) narasin and (b) nicarbazin in a 1/1 ratio)	(a) $C_{43}H_{72}O_{11}$ (polyether monocarboxylic acid produced by <i>Streptomyces aureofaciens</i>). (b) Equimolecular complex of 1,3-bis (4-nitrophenyl)-urea and 4,6-dimethylpyrimidin-2-ol. In granular form	Chickens for fattening	—	80	100	Use prohibited at least 7 days before slaughter Indicate in the instructions for use: Dangerous for equines ► M81 This feedingsstuff contains an ionophore: simultaneous use with certain medicinal substances (e.g. tiamulin) can be contra indicated ▼	► M92 30. 11. 1995 ▼
24	Diclazuril	(+)-4-chlorophenyl [2,6-dichloro-4-(2,3,4,5-tetrahydro-3,5-dioxo-1,2,4-triazin-2-yl) phenyl] acetoneitrile	Chickens for fattening	—	1	1	Use prohibited at least 5 days before slaughter	► M88 30. 11. 1994 ▼
25	Halofuginone	di-trans-7-bromo-6-chloro-3-[3-(3-hydroxy-2-piperidyl) acetyl] quinazolin-4(3H)-one hydrobromide	Chickens reared for laying	16 weeks	3	3	—	► M95 30. 11. 1996 ▼
26	Salinomycin sodium	$C_{42}H_{69}O_{11}Na$ (sodium salt of a polyether monocarboxylic acid produced by <i>Streptomyces albus</i>) — Elaiophyllin content: less than 42 mg per kg of Salinomycin sodium — 17-epi-20-deoxy-salinomycin content: less than 40 mg per kg of Salinomycin sodium	Rabbits for fattening	—	20	25	Use prohibited at least five days before slaughter Indicate in the instructions for use: — 'Dangerous for equines' — 'This feedingsstuff contains an ionophore; simultaneous use with certain medicinal substances (e.g. tiamulin) can be contra indicated'	30. 11. 1996
27	Diclazuril	2,6 dichloro-alpha-(4-chlorophenyl)-4-[4,5-dihydro-3,5-dioxo-1,2,4-triazin-2(3H)-yl] benzeneacetoneitrile	Turkeys	12 weeks	1	1	Use prohibited at least five days before slaughter	30. 11. 1996

▼ **M81**▼ **M83**▼ **M97**

No	Additive	Chemical formula, description	Species or category of animal	Maximum age	Maximum content		Other provisions	Period of authorization
					Minimum content mg/kg of complete feedstuff	Maximum content		
▼ M97								
E. Emulsifiers, stabilizers, thickeners and gelling agents								
1	Canthaxanthin	$C_{40}H_{52}O_2$	Ornamental fish	—	—	—	—	30. 11. 1994
2	Astaxanthin	$C_{40}H_{52}O_4$	Ornamental fish	—	—	—	—	30. 11. 1994
▼ M78								
F. Colouring matters including pigments								
1. Carotenoids and xanthophylls								
1	Tartrazine	$C_{16}H_9N_4O_9S_2Na_3$	Ornamental fish	—	—	—	—	30. 11. 1994
2	Sunset yellow FCF	$C_{16}H_{10}N_2O_7S_2Na_2$		—	—	—	—	30. 11. 1994
3	Ponceau 4 R	$C_{20}H_{11}N_2O_{10}S_3Na_3$		—	—	—	—	30. 11. 1994
4	Erythrosine	$C_{20}H_{16}O_4Na_2 \cdot H_2O$	Ornamental fish	—	—	—	—	30. 11. 1994
5	Indigotine	$C_{16}H_8N_2O_8S_2Na_2$		—	—	—	—	30. 11. 1994
6	Chlorophyll copper complex	—	Ornamental fish	—	—	—	—	30. 11. 1994
7	Acid Brilliant Green BS, (Lissamine Green)	Sodium salt of 4,4-bis (dimethylamino) diphenyl-methylene-2-naphthol-3,6-disulphonic acid	Ornamental fish	—	—	—	—	30. 11. 1994
8	Carbon black	C	Ornamental fish	—	—	—	—	30. 11. 1994
9	Bixin	$C_{23}H_{30}O_4$		—	—	—	—	30. 11. 1994
10	Iron oxide, red	Fe_2O_3		—	—	—	—	30. 11. 1994
▼ M88								

No	Additive	Chemical formula, description	Species or category of animal	Maximum age	Maximum content		Other provisions	Period of authorisation
					Minimum content mg/kg of complete feedstuff	Maximum content		
▼ M88								
11	Astaxanthin-rich <i>Phaffia rhodozyma</i>	Concentrated biomass of the yeast <i>Phaffia rhodozyma</i> (CBS 116.94) killed, containing at least 2,5 g ostaxanthin per kilogram additive	Salmon, trout	—	—	100	The maximum content is expressed as astaxanthin. Use only permitted from the age of six months onwards. The mixture of the additive with canthaxanthin is allowed provided that the total concentration of astaxanthin and canthaxanthin does not exceed 100 mg/kg in the complete feedstuff	► M95 30. 11. 1996 ▼
▼ M78	G. Preservatives							
20	Methylpropionic acid	$C_4H_8O_2$	All species or categories of animals with the exception of laying hens	—	1 000	4 000	—	► M82 30. 11. 1992 ▼
	I. Trace elements							
	J. Growth promoters							
▼ M79	L. Binders, anti-caking agents and coagulants							
1	Synthetic calcium aluminates	Mixture of calcium aluminates containing between 35 and 51 % of Al_2O_3 (SIC! Al_2O_3) maximum molybdenum content of 20 mg/kg	Poultry, rabbits, and pigs	—	—	20 000	All feedstuffs	► M84 30. 3. 1993 ▼

No	Additive	Chemical formula, description	Species or category of animal	Maximum age	Maximum content		Other provisions	Period of authorization
					Minimum content mg/kg of complete feedingstuff	Maximum content		
▼ M79								
▼ M83			Dairy cows Cattle for fattening calves, lambs, kids	—	—	8 000	All feedingstuffs	► M95 30.11.1996 ▼
▼ M90	2 Natrolite-phonolite	Natural mixture of aluminium silicates, alkalines and alkaline-earth and aluminium hydrosilicates, natrolite (43 % — 46,5 %) and feldspar	All animal species and categories	—	—	25 000	All feedingstuffs	► M95 30.11.1996 ▼
▼ M78	M. Acidity regulators							
▼ M90	N. Enzymes 3-phytase (EC 3.1.3.8)	Preparation of 3-phytase produced by <i>Aspergillus niger</i> (CBS 114.94) having a minimum phytase activity of 5 000 FTU/g for solid and liquid preparations	Pigs (all categories of animals) Chickens (all categories of animals)	—	—	—	—	► M95 30.11.1996 ▼ ► M95 30.11.1996 ▼
1	O. Micro-organisms <i>Bacillus cereus</i> var. <i>toyoi</i> (CNCM I-1012/ NCIB 40112)	Preparation of <i>Bacillus cereus</i> var. <i>toyoi</i> containing a minimum 10 ¹⁰ CFU/g additive	Piglets Pigs Sows	Two months four months six months —	10 ⁹ 0,5 × 10 ⁹ 0,2 × 10 ⁹ 10 ⁹	10 ⁹ 10 ⁹ 10 ⁹ 2 × 10 ⁹	— — — —	► M95 30.11.1996 ▼ ► M95 30.11.1996 ▼ ► M95 30.11.1996 ▼

No	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content mg/kg of complete feedingsstuff		Maximum content	Other provisions	Period of authorisation
					Minimum content	Maximum content			
2	<i>Bacillus licheniformis</i> (DSM 5749) / <i>Bacillus subtilis</i> (DSM 5750) [in a 1/1 ratio]	Mixture of <i>Bacillus licheniformis</i> and <i>Bacillus subtilis</i> containing 32×10^9 CFU/g additive ($1,6 \times 10^9$ CFU/g of each bacteria)	Piglets	4 months	$1,28 \times 10^9$	$3,2 \times 10^9$	—	—	► M95 30. 11. 1996 ▼
3	<i>Saccharomyces cerevisiae</i> (NCYC Sc 47)	Preparation of <i>Saccharomyces cerevisiae</i> containing a minimum 5×10^9 CFU/g additive	Cattle for fattening	—	4×10^9	8×10^9	Indicate in the instructions for use: 'the quantity of <i>Saccharomyces cerevisiae</i> in the daily ration must not exceed $2,5 \times 10^{10}$ CFU for 100 kg of bodyweight; $0,5 \times 10^{10}$ CFU for each additional 100 kg of bodyweight'	—	30. 11. 1996
4	<i>Bacillus cereus</i> (ATCC 14893/CIP 5832)	Preparation of <i>Bacillus cereus</i> containing a minimum 10^{10} CFU/g additive	Rabbits for fattening Breeding rabbits	—	$0,5 \times 10^9$	2×10^9	—	—	30. 11. 1996 30. 11. 1996

▼ **M90**▼ **M91**▼ **M97**

▼ **M51***ANNEX III***Minimum conditions which must be fulfilled by manufacturers of the additives, premixtures and compound feedingstuffs referred to in Article 13 and intermediaries**

1. The manufacturer must possess the appropriate facilities and technical equipment for the manufacture and storage of additives, premixtures or compound feedingstuffs containing those premixtures.
2. The manufacturer or his staff must possess the skills necessary for the manufacture of additives, premixtures or compound feedingstuffs.
3. The manufacturer must have access to appropriate means enabling him to ensure:
 - (a) in the case of additives: that they conform to the provisions of this Directive;
 - (b) in the case of premixtures: the nature and level of the different additives, and the homogeneity and stability of additives in the premixtures;
 - (c) in the case of compound feedingstuffs: the nature and level of the additives and the homogeneous mixing of those additives in the compound feedingstuff.
4. Additives intended for the manufacture of premixtures and premixtures intended for incorporation in compound feedingstuffs shall be stored in such a way as to enable them to be easily identified and to avoid any confusion with other additives, premixtures or medicinal substances, medicated feedingstuffs or feedingstuffs. They shall be stored in suitable places, which can be locked and which are intended for the storage of these products.
5. The manufacturer or, if the manufacturer is established in a third country, his agent established in the Community must record the following information:
 - (a) for additives: the nature, quantity of additives produced and the respective dates of manufacture, and the names and addresses of the manufacturers of premixtures or intermediaries to whom the additives have been delivered with an indication of the nature and quantity of additive delivered;
 - (b) for premixtures: the name of the manufacturers and the suppliers, the nature and quantity of the additives used, the date of manufacture, the name and address of the compound feedingstuff manufacturers or intermediaries for whom the premixture is intended and the nature and quantity of the premixture delivered;
 - (c) for compound feedingstuffs: the name and address of the supplier of the premixture and of the manufacturer if the latter is not the supplier, the nature and quantity of the premixture and the use to which it has been put.
6. Where the manufacturer delivers additives or premixtures to a person other than a manufacturer of premixtures or compound feedingstuffs, that person and any subsequent intermediary shall be bound by the same recording obligations laid down in paragraph 5 (a) and (b).



ANNEX I

TABLE OF CORRESPONDANCE

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