

# Official Journal

## of the European Communities

L 124

Volume 34

18 May 1991

English edition

## Legislation

---

### Contents

#### I *Acts whose publication is obligatory*

.....

#### II *Acts whose publication is not obligatory*

##### Commission

91/248/EEC:

- ★ **Commission Directive of 12 April 1991 amending the Annexes to Council Directive 70/524/EEC concerning additives in feedingstuffs** ..... 1

91/249/EEC:

- ★ **Commission Directive of 19 April 1991 amending the Annexes to Council Directive 70/524/EEC concerning additives in feedingstuffs** ..... 43

## II

*(Acts whose publication is not obligatory)*

## COMMISSION

## COMMISSION DIRECTIVE

of 12 April 1991

amending the Annexes to Council Directive 70/524/EEC concerning additives in feeding-stuffs

(91/248/EEC)

THE COMMISSION OF THE EUROPEAN COMMUNITIES,

Having regard to the Treaty establishing the European Economic Community,

Having regard to Council Directive 70/524/EEC of 23 November 1970 concerning additives in feeding-stuffs <sup>(1)</sup>, as last amended by Commission Directive 90/643/EEC <sup>(2)</sup>, and in particular Article 7 thereof,

Whereas Directive 70/524/EEC provides for a consolidated version of the Annexes to be adopted at regular intervals in order to incorporate the amendments made on account of advances in scientific and technical knowledge; whereas a first consolidation was carried out by Directive 85/429/EEC <sup>(3)</sup>;

Whereas, since the adoption of the Directive, the Annexes have again been amended a number of times; whereas, by reason of their number, their complexity and their dispersal among various Official Journals, the texts are difficult to use and thus lack the clarity which should be an essential feature of all legislation; whereas they should therefore be consolidated; whereas on the same occasion the name or chemical description of some additives should be rectified or made more precise and certain material errors should be corrected;

Whereas the measures provided for in this Directive are in accordance with the opinion of the Standing Committee for Feedingstuffs,

HAS ADOPTED THIS DIRECTIVE:

*Article 1*

Annexes I and II to Directive 70/524/EEC are hereby replaced by the Annexes to this Directive.

*Article 2*

Member States shall bring into force the laws, regulations and administrative provisions necessary to comply with this Directive. They shall forthwith inform the Commission thereof.

When Member States adopt these measures, they shall contain a reference to this Directive or shall be accompanied by such reference on the occasion of their official publication. The methods of making such a reference shall be laid down by the Member States.

*Article 3*

This Directive is addressed to the Member States.

Done at Brussels, 12 April 1991.

*For the Commission*

Ray MAC SHARRY

*Member of the Commission*

<sup>(1)</sup> OJ No L 270, 14. 12. 1970, p. 1.

<sup>(2)</sup> OJ No L 350, 14. 12. 1990, p. 80.

<sup>(3)</sup> OJ No L 245, 12. 9. 1985, p. 1.

| EEC No | Additive                                 | Chemical formula,<br>description                                                                             | Species or category<br>of animal                           | Maximum age | Minimum content<br>mg/kg of complete<br>feedingsstuff |                    | Other<br>provisions |
|--------|------------------------------------------|--------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|-------------|-------------------------------------------------------|--------------------|---------------------|
|        |                                          |                                                                                                              |                                                            |             | Minimum<br>content                                    | Maximum<br>content |                     |
| E 700  | <b>A. Antibiotics</b><br>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                 | —                   |
|        |                                          |                                                                                                              |                                                            | 26 weeks    | 5                                                     | 20                 | —                   |
|        |                                          |                                                                                                              | Other poultry, excluding ducks, geese, pigeons             | 4 weeks     | 5                                                     | 50                 | —                   |
|        |                                          |                                                                                                              |                                                            | 16 weeks    | 5                                                     | 20                 | —                   |
|        |                                          |                                                                                                              | Calves, lambs, kids                                        | 16 weeks    | 5                                                     | 50                 | —                   |
|        |                                          |                                                                                                              |                                                            | 6 months    | 5                                                     | 20                 | —                   |
|        |                                          |                                                                                                              |                                                            | 6 months    | 5                                                     | 80                 | Milk replacers only |
|        |                                          |                                                                                                              | Piglets                                                    | 4 months    | 5                                                     | 50                 | —                   |
|        |                                          |                                                                                                              | Pigs                                                       | 3 months    | 5                                                     | 80                 | Milk replacers only |
| E 710  | Spiramycin                               | I $C_{43}H_{74}O_{14}N_2$<br>II $C_{45}H_{76}O_{15}N_2$ } base<br>III $C_{46}H_{78}O_{15}N_2$<br>(makrolide) | 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                 | —                   |
|        |                                          |                                                                                                              |                                                            |             |                                                       |                    |                     |

| EEC No | Additive      | Chemical formula, description                        | Species or category of animal                              | Maximum age | Minimum content                | Maximum content | Other provisions                                                                                                                                     |
|--------|---------------|------------------------------------------------------|------------------------------------------------------------|-------------|--------------------------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
|        |               |                                                      |                                                            |             | mg/kg of complete feedingstuff |                 |                                                                                                                                                      |
| E 711  | Virginiamycin | I $C_{28}H_{35}O_7N_3$<br>II $C_{43}H_{49}O_{10}N_7$ | Calves, lambs, kids                                        | 16 weeks    | 5                              | 50              | —                                                                                                                                                    |
|        |               |                                                      |                                                            | 6 months    | 5                              | 20              | —                                                                                                                                                    |
|        |               |                                                      | Piglets                                                    | 6 months    | 5                              | 80              | Milk replacers only                                                                                                                                  |
|        |               |                                                      |                                                            | 4 months    | 5                              | 50              | —                                                                                                                                                    |
|        |               |                                                      | Pigs                                                       | 3 months    | 5                              | 80              | Milk replacers only                                                                                                                                  |
|        |               |                                                      |                                                            | 6 months    | 5                              | 20              | —                                                                                                                                                    |
|        |               |                                                      | 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              | Milk replacers only                                                                                                                                  |
|        |               |                                                      | Laying hens                                                | —           | 20                             | 20              | —                                                                                                                                                    |
|        |               |                                                      | 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' |

| EEC No | Additive          | Chemical formula,<br>description                                                                                                                                                                          | Species or category<br>of animal                 | Maximum age | Minimum content<br>mg/kg of complete<br>feedingstuff |                    | Other<br>provisions                                                                                                                                                        |
|--------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-------------|------------------------------------------------------|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        |                   |                                                                                                                                                                                                           |                                                  |             | Minimum<br>content                                   | Maximum<br>content |                                                                                                                                                                            |
| E 712  | Flavophospholipol | $C_{70}H_{124}O_{40}N_6P$                                                                                                                                                                                 | Laying hens                                      | —           | 2                                                    | 5                  | —                                                                                                                                                                          |
|        |                   |                                                                                                                                                                                                           | Turkeys                                          | 26 weeks    | 1                                                    | 20                 | —                                                                                                                                                                          |
|        |                   |                                                                                                                                                                                                           | Other poultry excluding<br>ducks, geese, pigeons | 16 weeks    | 1                                                    | 20                 | —                                                                                                                                                                          |
|        |                   |                                                                                                                                                                                                           | Piglets                                          | 3 months    | 10                                                   | 25                 | Milk replacers only                                                                                                                                                        |
|        |                   |                                                                                                                                                                                                           | Pigs                                             | 6 months    | 1                                                    | 20                 | —                                                                                                                                                                          |
|        |                   |                                                                                                                                                                                                           | Animals bred for fur exclud-<br>ing rabbits      | —           | 2                                                    | 4                  | —                                                                                                                                                                          |
|        |                   |                                                                                                                                                                                                           | Calves                                           | 6 months    | 6                                                    | 16                 | —                                                                                                                                                                          |
|        |                   |                                                                                                                                                                                                           |                                                  | 6 months    | 8                                                    | 16                 | Milk replacers only                                                                                                                                                        |
|        |                   |                                                                                                                                                                                                           | Cattle for fattening                             | —           | 2                                                    | 10                 | Indicate in the instructions for<br>use:                                                                                                                                   |
|        |                   |                                                                                                                                                                                                           |                                                  |             |                                                      |                    | 'The quantity of flavophos-<br>pholipol in the daily ration<br>must not exceed 40 mg for<br>100 kg of bodyweight and<br>1,5 mg for each additional<br>10 kg of bodyweight' |
| E 713  | Tylosin phosphate | Macrolide, product of <i>Strepto-<br/>myces fradiae</i><br><br>Composition of antibiotic fac-<br>tors (1):<br>(a) Tylosin<br>$C_{46}H_{77}NO_{17}$ : min. 80 %<br>(b) Desmicosin<br>$C_{39}H_{65}NO_{14}$ | Rabbits                                          | —           | 2                                                    | 4                  | —                                                                                                                                                                          |
|        |                   |                                                                                                                                                                                                           | Piglets                                          | 4 months    | 10                                                   | 40                 | —                                                                                                                                                                          |
|        |                   |                                                                                                                                                                                                           | Pigs                                             | 6 months    | 5                                                    | 20                 | —                                                                                                                                                                          |

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

| EEC No | Additive        | Chemical formula,<br>description                                                                                                                                                                                                                   | Species or category<br>of animal | Maximum age | Minimum content<br>mg/kg of complete<br>feedingsuff |                    | Other<br>provisions                                                                                                                                                                                                                                 |
|--------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------|-----------------------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        |                 |                                                                                                                                                                                                                                                    |                                  |             | Minimum<br>content                                  | Maximum<br>content |                                                                                                                                                                                                                                                     |
| E 714  | Monensin-Sodium | (c) Macrocin<br>$C_{45}H_{75}NO_{17}$<br>(d) Relomycin<br>$C_{46}H_{79}NO_{17}$<br>(a) + (b) + (c) + (d): min. 95 %<br><br>$C_{36}H_{61}O_{11}Na$ (sodium salt of<br>polyether monocarboxylic<br>acid produced by Strepto-<br>myces cinnamonensis) | Cattle for fattening             | —           | 10                                                  | 40                 | Indicate in the instructions for<br>use:<br><br>'The quantity of monensin<br>sodium in the daily ration<br>must not exceed 140 mg for<br>100 kg of bodyweight and 6<br>mg for each additional 10 kg<br>of bodyweight.<br><br>Dangerous for equines' |
|        |                 |                                                                                                                                                                                                                                                    |                                  |             | —                                                   | —                  |                                                                                                                                                                                                                                                     |
| E 715  | Avoparcin       | $C_{33}H_{60}N_6Cl_3$ (glycopeptide)                                                                                                                                                                                                               | Chickens for fattening           | —           | 7,5                                                 | 15                 | —                                                                                                                                                                                                                                                   |
|        |                 |                                                                                                                                                                                                                                                    | Turkeys for fattening            | 16 weeks    | 10                                                  | 20                 | —                                                                                                                                                                                                                                                   |
|        |                 |                                                                                                                                                                                                                                                    | Piglets                          | 4 months    | 10                                                  | 40                 | —                                                                                                                                                                                                                                                   |
|        |                 |                                                                                                                                                                                                                                                    | Pigs                             | 6 months    | 5                                                   | 20                 | —                                                                                                                                                                                                                                                   |
|        |                 |                                                                                                                                                                                                                                                    | Calves                           | 6 months    | 15                                                  | 40                 | —                                                                                                                                                                                                                                                   |
|        |                 |                                                                                                                                                                                                                                                    | Cattle for fattening             | —           | 15                                                  | 30                 | Indicate in the instructions for<br>use:<br><br>'The quantity of avoparcin<br>in the daily ration must not<br>exceed 103 mg for 100 kg of<br>bodyweight and 4,3 mg for<br>each additional 10 kg of<br>bodyweight'                                   |

| EEC No          | Additive                                      | Chemical formula,<br>description                                       | Species or category<br>of animal        | Maximum age | Minimum<br>content                | Maxi-<br>mum<br>content          | Other<br>provisions |
|-----------------|-----------------------------------------------|------------------------------------------------------------------------|-----------------------------------------|-------------|-----------------------------------|----------------------------------|---------------------|
|                 |                                               |                                                                        |                                         |             | mg/kg of complete<br>feedingstuff |                                  |                     |
| B. Antioxidants |                                               |                                                                        |                                         |             |                                   |                                  |                     |
| E 300           | L-Ascorbic acid                               | C <sub>6</sub> H <sub>8</sub> O <sub>6</sub>                           | All species or categories<br>of animals | —           | —                                 | —                                | All feedingstuffs   |
| E 301           | Sodium L-ascorbate                            | C <sub>6</sub> H <sub>7</sub> O <sub>6</sub> Na                        |                                         | —           | —                                 | —                                |                     |
| E 302           | Calcium L-ascorbate                           | C <sub>12</sub> H <sub>14</sub> O <sub>12</sub> Ca · 2H <sub>2</sub> O |                                         | —           | —                                 | —                                |                     |
| E 303           | 5,6-Diacetyl-L-ascorbic<br>acid               | C <sub>10</sub> H <sub>12</sub> O <sub>8</sub>                         |                                         | —           | —                                 | —                                |                     |
| E 304           | 6-Palmityl-L-ascorbic<br>acid                 | C <sub>22</sub> H <sub>38</sub> O <sub>7</sub>                         |                                         | —           | —                                 | —                                |                     |
| E 306           | Tocopherol-rich extracts<br>of natural origin | —                                                                      |                                         | —           | —                                 | —                                |                     |
| E 307           | Synthetic alpha-toco-<br>pherol               | C <sub>29</sub> H <sub>50</sub> O <sub>2</sub>                         |                                         | —           | —                                 | —                                |                     |
| E 308           | Synthetic gamma-toco-<br>pherol               | C <sub>38</sub> H <sub>48</sub> O <sub>2</sub>                         |                                         | —           | —                                 | —                                |                     |
| E 309           | Synthetic delta-toco-<br>pherol               | C <sub>27</sub> H <sub>46</sub> O <sub>2</sub>                         |                                         | —           | —                                 | —                                |                     |
| E 310           | Propyl gallate                                | C <sub>10</sub> H <sub>12</sub> O <sub>5</sub>                         |                                         | —           | —                                 | 100:<br>alone<br>or to-<br>ether |                     |
| E 311           | Octyl gallate                                 | C <sub>15</sub> H <sub>22</sub> O <sub>5</sub>                         |                                         | —           | —                                 |                                  |                     |
| E 312           | Dodecyl gallate                               | C <sub>19</sub> H <sub>30</sub> O <sub>5</sub>                         |                                         | —           | —                                 |                                  |                     |

| EEC No | Additive                          | Chemical formula,<br>description | Species or category<br>of animal        | Maximum age | Minimum<br>content                | Maxi-<br>mum<br>content           | Other<br>provisions |
|--------|-----------------------------------|----------------------------------|-----------------------------------------|-------------|-----------------------------------|-----------------------------------|---------------------|
|        |                                   |                                  |                                         |             | mg/kg of complete<br>feedingstuff |                                   |                     |
| E 320  | Butylated hydroxyanisole<br>(BHA) | $C_{11}H_{16}O_2$                | All species or categories<br>of animals | —           | —                                 | 150:<br>alone<br>or to-<br>gether | All feedingstuffs   |
| E 321  | Butylated hydroxytoluene<br>(BHT) | $C_{15}H_{24}O$                  |                                         | —           | —                                 |                                   |                     |
| E 324  | Ethoxyquin                        | $C_{14}H_{19}ON$                 |                                         | —           | —                                 |                                   |                     |

| EEC No                              | Additive                                                                    | Chemical formula,<br>description                  | Species or category<br>of animal        | Maximum age | Minimum content                   |  | Maximum content | Other<br>provisions |
|-------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------|-----------------------------------------|-------------|-----------------------------------|--|-----------------|---------------------|
|                                     |                                                                             |                                                   |                                         |             | mg/kg of complete<br>feedingstuff |  |                 |                     |
| E 954(i)<br>E 954(ii)<br>E 954(iii) | <b>C. Aromatic and appetizing<br/>substances</b>                            | —                                                 | All species or categories of<br>animals | —           | —                                 |  | —               | —                   |
|                                     | 1. <i>All natural products and<br/>corresponding synthetic<br/>products</i> |                                                   |                                         |             | —                                 |  |                 |                     |
|                                     | 2. <i>Artificial substances:</i>                                            |                                                   |                                         |             |                                   |  |                 |                     |
|                                     | Saccharin                                                                   |                                                   |                                         |             | —                                 |  |                 |                     |
|                                     | Calcium saccharin                                                           | C <sub>7</sub> H <sub>5</sub> NO <sub>3</sub> S   | Piglets                                 | 4 months    | —                                 |  | 150             | —                   |
|                                     | Sodium saccharin                                                            | C <sub>7</sub> H <sub>3</sub> NNaO <sub>3</sub> S | Piglets                                 | 4 months    | —                                 |  | 150             | —                   |
|                                     |                                                                             | C <sub>7</sub> H <sub>4</sub> NNaO <sub>3</sub> S | Piglets                                 | 4 months    | —                                 |  | 150             | —                   |

| EEC No | Additive                                                                | Chemical formula,<br>description                                                                                                    | Species or category<br>of animal    | Maximum age | Minimum content<br>mg/kg of complete<br>feedingstuff |     | Maximum<br>content | Other<br>provisions                                                                      |
|--------|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------|------------------------------------------------------|-----|--------------------|------------------------------------------------------------------------------------------|
|        |                                                                         |                                                                                                                                     |                                     |             |                                                      |     |                    |                                                                                          |
| E 750  | <b>D. Coccidiostats and other<br/>medicinal substances</b><br>Amprolium | 1-[(4-amino-2-propylpyrimidin-5-yl) methyl]-2-methylpyridinium chloride hydrochloride                                               | Poultry                             | —           | 62,5                                                 | 125 |                    | Use prohibited from laying age onwards and at least 3 days before slaughter respectively |
|        |                                                                         | (a) 1-[4-amino-2-propylpyrimidin-5-yl) methyl]-2-methylpyridinium chloride hydrochloride<br>(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                             | —           | 100                                                  | 200 |                    | Use prohibited from laying age onwards and at least 6 days before slaughter respectively |
|        |                                                                         |                                                                                                                                     | Guinea-fowl                         | —           | 125                                                  | 150 |                    | 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 | —           | 125                                                  | 125 |                    | Use prohibited from laying age onwards and at least 5 days before slaughter respectively |
|        |                                                                         |                                                                                                                                     | Rabbits                             | —           | 125                                                  | 200 |                    | Use prohibited at least 5 days before slaughter                                          |

| EEC No | Additive        | Chemical formula,<br>description                                                                                                  | Species or category<br>of animal     | Maximum age | Minimum content    |                    | Other<br>provisions                                                                                                     |
|--------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-------------|--------------------|--------------------|-------------------------------------------------------------------------------------------------------------------------|
|        |                 |                                                                                                                                   |                                      |             | Minimum<br>content | Maximum<br>content |                                                                                                                         |
| E 756  | Decoquinat      | 3-ethoxycarbonyl-4-hydroxy-<br>6-decyloxy-7-ethoxyquinoline                                                                       | Chickens for fattening               | —           | 20                 | 40                 | Use prohibited at least 3 days<br>before slaughter                                                                      |
|        | Monensin sodium | $C_{30}H_{60}O_{11}$ Na (sodium salt of<br>polyether monocarboxylic<br>acid produced by <i>Strepto-<br/>myces cinnamonensis</i> ) | Chickens for fattening               | —           | 100                | 125                | Use prohibited at least 3 days<br>before slaughter.<br>Indicate in the instructions for<br>use: 'Dangerous for equines' |
| E 757  |                 |                                                                                                                                   | Chickens reared for laying           | 16 weeks    | 100                | 120                | Indicate in the instructions for<br>use: 'Dangerous for equines'                                                        |
|        |                 |                                                                                                                                   | Turkeys                              | 16 weeks    | 90                 | 100                | Use prohibited at least 3 days<br>before slaughter<br>Indicate in the instructions for<br>use: 'Dangerous for equines'  |
|        |                 |                                                                                                                                   | Chickens for fattening, tur-<br>keys | —           | 30                 | 36                 | Use prohibited at least 5 days<br>before slaughter                                                                      |
|        |                 |                                                                                                                                   | Rabbits for fattening                | —           | 50                 | 66                 | Use prohibited at least 5 days<br>before slaughter                                                                      |
| E 758  | Robenidine      | 1,3-bis[(4-chlorobenzylidene)-<br>amino] guanidine hydrochlor-<br>ide                                                             | Turkeys                              | —           | 60                 | 90                 | Use prohibited from laying age<br>onwards and at least 6 days be-<br>fore slaughter respectively                        |
| E 759  | Ronidazole      | (1-methyl-5-nitroimidazol-2-<br>yl)methylcarbamate                                                                                | Turkeys                              | —           |                    |                    |                                                                                                                         |

| EEC No | Additive                                                                                                                        | Chemical formula,<br>description                                                                                                                 | Species or category<br>of animal                                        | Maximum age                       | Minimum content                   |                                   | Maximum<br>content                                                                                                                                                               | Other<br>provisions |
|--------|---------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
|        |                                                                                                                                 |                                                                                                                                                  |                                                                         |                                   | mg/kg of complete<br>feedingstuff | mg/kg of complete<br>feedingstuff |                                                                                                                                                                                  |                     |
| E 760  | Iprnidazole                                                                                                                     | 1-methyl-2-isopropyl-5-ni-<br>troimidazole                                                                                                       | Turkeys                                                                 | —                                 | 50                                | 85                                | Use prohibited from laying age<br>onwards and at least 6 days be-<br>fore slaughter respectively                                                                                 |                     |
| E 761  | Meticlorpindol/methyl-<br>benzoate (mixture of<br>100 parts of (a) meticlor-<br>pindol and 8,35 parts of<br>(b) methylbenzoate) | (a) 3,5-dichloro-2,6-dimethyl-<br>pyridin-4-ol<br><br>(b) 7-benzyloxy-6-butyl-3-<br>methoxycarbonyl-4-quin-<br>olone                             | Chickens for fattening<br><br>Chickens reared for laying                | —<br><br>16 weeks                 | 110<br><br>110                    | 110<br><br>110                    | Use prohibited at least 5 days<br>before slaughter<br><br>—                                                                                                                      |                     |
| E 762  | Arprinocid                                                                                                                      | 9-(2-chloro-6-fluorobenzyl)<br>adenine                                                                                                           | Turkeys<br><br>Chickens for fattening<br><br>Chickens reared for laying | 12 weeks<br><br>—<br><br>16 weeks | 110<br><br>60<br><br>60           | 110<br><br>60<br><br>60           | Use prohibited at least 5 days<br>before slaughter<br><br>—                                                                                                                      |                     |
| E 763  | Lasalocid sodium                                                                                                                | C <sub>34</sub> H <sub>53</sub> O <sub>8</sub> Na (sodium salt of<br>polyether monocarboxylic<br>acid produced by Strepto-<br>myces lasaliensis) | Chickens for fattening                                                  | —                                 | 75                                | 125                               | Use prohibited at least 5 days<br>before slaughter                                                                                                                               |                     |
| E 764  | Halofuginone                                                                                                                    | dl-trans-7-bromo-6-chloro-3-<br>[3-(3-hydroxy-2-piperidyl)ace-<br>tonyl]-quinazolin-4-(3H)-one<br>hydrobromide                                   | Chickens reared for laying<br><br>Chickens for fattening                | 16 weeks<br><br>—                 | 75<br><br>2                       | 125<br><br>3                      | —<br><br>Use prohibited at least 5 days<br>before slaughter                                                                                                                      |                     |
| E 765  | Narasin                                                                                                                         | C <sub>43</sub> H <sub>72</sub> O <sub>11</sub> (polyether of mono-<br>carboxylic acid produced by<br>Streptomyces aureofaciens)                 | Turkeys<br><br>Chickens for fattening                                   | 12 weeks<br><br>—                 | 2<br><br>60                       | 3<br><br>70                       | Use prohibited at least 5 days<br>before slaughter<br><br>Use prohibited at least 5 days<br>before slaughter<br>Indicate in the instructions for<br>use: 'Dangerous for equines' |                     |

| EEC No | Additive           | Chemical formula,<br>description                                                                                                                                                                                                                                                                                                                                    | Species or category<br>of animal | Maximum age | Minimum content                   |                    | Other<br>provisions                                                                                                                                                 |
|--------|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------|-----------------------------------|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        |                    |                                                                                                                                                                                                                                                                                                                                                                     |                                  |             | mg/kg of complete<br>feedingstuff | Maximum<br>content |                                                                                                                                                                     |
| E 766  | Salinomycin sodium | $C_{42}H_{69}O_{11}Na$ (sodium salt of polyether of monocarboxylic acid produced by <i>Streptomyces albus</i> )                                                                                                                                                                                                                                                     | Chickens for fattening           | —           | 50                                | 70                 | Use prohibited at least 5 days before slaughter<br>Indicate in the instructions for use: 'Dangerous for equines'                                                    |
| E 768  | Nicarbazin         | Equimolecular complex of 1,3-bis (4-nitrophenyl) urea and 4,6-di methyl pyrimidin-2-ol                                                                                                                                                                                                                                                                              | Chickens for fattening           | 4 weeks     | 100                               | 125                | Use prohibited at least 9 days before slaughter                                                                                                                     |
| E 769  | Nifursol           | 3,5-dinitro-N'-(5-nitrofurfurylidene) salicylohydrazide<br>Minimum purity: 98 % on an anhydrous basis. Particular features of the three authorized preparations:<br>— maximum nifursol content: 14,6 %, 44 % or 50 %<br>— minimum stability: 24 months<br>— carrier for the three preparations: maize starch and, respectively, 12 %, 33 % or 34 % of soya bean oil | Turkeys                          | —           | 50                                | 75                 | Use prohibited at least 5 days before slaughter<br>Maximum amount of dust emitted during handling, as determined by the Stauber Heubach method (1): 0,1 µg nifursol |

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

| EEC No | Additive                                                                               | Chemical formula,<br>description | Species or category<br>of animal                                               | Maximum age | Minimum<br>content<br>mg/kg of complete<br>feedstuff | Maximum<br>content<br>mg/kg of complete<br>feedstuff | Other<br>provisions |
|--------|----------------------------------------------------------------------------------------|----------------------------------|--------------------------------------------------------------------------------|-------------|------------------------------------------------------|------------------------------------------------------|---------------------|
|        |                                                                                        |                                  |                                                                                |             |                                                      |                                                      |                     |
| E 322  | <b>E. Emulsifiers, stabilizers,<br/>thickeners and gelling<br/>agents</b><br>Lecithins | —                                | All species or categories<br>of animals                                        | —           | —                                                    | —                                                    | All feedingstuffs   |
| E 400  | Alginic acid                                                                           | —                                |                                                                                | —           | —                                                    | —                                                    |                     |
| E 401  | Sodium alginate                                                                        | —                                |                                                                                | —           | —                                                    | —                                                    |                     |
| E 402  | Potassium alginate                                                                     | —                                |                                                                                | —           | —                                                    | —                                                    |                     |
| E 403  | Ammonium alginate                                                                      | —                                | All species or categories of<br>animals with the exception of<br>aquarium fish | —           | —                                                    | —                                                    |                     |
| E 404  | Calcium alginate                                                                       | —                                |                                                                                | —           | —                                                    | —                                                    |                     |
| E 405  | Propane-1,2-diol alginate<br>(Propyl-ene glycol algin-<br>ate)                         | —                                | All species or categories<br>of animals                                        | —           | —                                                    | —                                                    |                     |
| E 406  | Agar                                                                                   | —                                |                                                                                | —           | —                                                    | —                                                    |                     |
| E 407  | Carrageenan                                                                            | —                                |                                                                                | —           | —                                                    | —                                                    |                     |
| E 408  | Furcelleran                                                                            | —                                |                                                                                | —           | —                                                    | —                                                    |                     |
| E 410  | Locust bean gum (Carob<br>gum)                                                         | —                                |                                                                                | —           | —                                                    | —                                                    |                     |
| E 411  | Tamarind seed flour                                                                    | —                                |                                                                                | —           | —                                                    | —                                                    |                     |

| EEC No | Additive                                        | Chemical formula,<br>description | Species or category<br>of animal        | Maximum age | Minimum content<br>mg/kg of complete<br>feedingstuff |   | Maximum<br>content<br>mg/kg of complete<br>feedingstuff                  | Other<br>provisions |
|--------|-------------------------------------------------|----------------------------------|-----------------------------------------|-------------|------------------------------------------------------|---|--------------------------------------------------------------------------|---------------------|
|        |                                                 |                                  |                                         |             |                                                      |   |                                                                          |                     |
| E 412  | Guar gum                                        | —                                | All species or categories<br>of animals | —           | —                                                    | — | —                                                                        | All feedingstuffs   |
| E 413  | Tragacanth                                      | —                                |                                         | —           | —                                                    | — | —                                                                        |                     |
| E 414  | Acacia (Gum arabic)                             | —                                |                                         | —           | —                                                    | — | —                                                                        |                     |
| E 415  | Xanthan gum                                     | —                                |                                         | —           | —                                                    | — | —                                                                        |                     |
| E 420  | Sorbitol                                        | —                                |                                         | —           | —                                                    | — | —                                                                        |                     |
| E 421  | Mannitol                                        | —                                |                                         | —           | —                                                    | — | —                                                                        |                     |
| E 422  | Glycerol                                        | —                                |                                         | —           | —                                                    | — | —                                                                        |                     |
| E 432  | Polyoxyethylene(20)-sor-<br>bitan monolaurate   | —                                |                                         | —           | —                                                    | — | —                                                                        | Milk replacers only |
| E 433  | Polyoxyethylene(20)-sor-<br>bitan Monooleate    | —                                |                                         | —           | —                                                    | — | 5 000<br>(alone<br>or<br>with<br>the<br>other<br>poly-<br>sor-<br>bates) |                     |
| E 434  | Polyoxyethylene(20)-sor-<br>bitan monopalmitate | —                                |                                         | —           | —                                                    | — | —                                                                        |                     |
| E 435  | Polyoxyethylene(20)-sor-<br>bitan monostearate  | —                                |                                         | —           | —                                                    | — | —                                                                        |                     |
| E 436  | Polyoxyethylene(20)-sor-<br>bitan tristearate   | —                                |                                         | —           | —                                                    | — | —                                                                        |                     |

| EEC No     | Additive                                                                                                                                                                   | Chemical formula,<br>description | Species or category<br>of animal        | Maximum age | Minimum content<br>mg/kg of complete<br>feedingstuff |                    | Other<br>provisions |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-----------------------------------------|-------------|------------------------------------------------------|--------------------|---------------------|
|            |                                                                                                                                                                            |                                  |                                         |             | Minimum<br>content                                   | Maximum<br>content |                     |
| E 440      | Pectins                                                                                                                                                                    | —                                | All species or categories of<br>animals | —           | —                                                    | —                  | All feedingstuffs   |
| E 450 b(i) | Pentasodium triphosphate                                                                                                                                                   | —                                | Dogs, cats                              | —           | —                                                    | 5 000              |                     |
| E 460      | Microcrystalline<br>cellulose                                                                                                                                              | —                                | All species or categories<br>of animals | —           | —                                                    | —                  |                     |
| E 461      | Methylcellulose                                                                                                                                                            | —                                |                                         | —           | —                                                    | —                  |                     |
| E 462      | Ethylcellulose                                                                                                                                                             | —                                |                                         | —           | —                                                    | —                  |                     |
| E 463      | Hydroxypropylcellulose                                                                                                                                                     | —                                |                                         | —           | —                                                    | —                  |                     |
| E 464      | Hydroxypropylmethylcel-<br>lulose                                                                                                                                          | —                                |                                         | —           | —                                                    | —                  |                     |
| E 465      | Ethylmethylcellulose                                                                                                                                                       | —                                |                                         | —           | —                                                    | —                  |                     |
| E 466      | Carboxymethylcellulose<br>(sodium salt of carboxy-<br>methyl ether of cellulose)                                                                                           | —                                |                                         | —           | —                                                    | —                  |                     |
| E 470      | Sodium, potassium and<br>calcium salts of edible fat-<br>ty acids, alone or in mix-<br>tures, derived either from<br>edible fats or from dis-<br>tilled edible fatty acids | —                                |                                         | —           | —                                                    | —                  |                     |

| EEC No | Additive                                                                                           | Chemical formula,<br>description | Species or category<br>of animal     | Maximum age | Minimum content<br>mg/kg of complete<br>feedingstuff |   | Maxi-<br>mum<br>content | Other<br>provisions |
|--------|----------------------------------------------------------------------------------------------------|----------------------------------|--------------------------------------|-------------|------------------------------------------------------|---|-------------------------|---------------------|
|        |                                                                                                    |                                  |                                      |             |                                                      |   |                         |                     |
| E 471  | Mono- and diglycerides of fatty acids                                                              | —                                | All species or categories of animals | —           | —                                                    | — | —                       | All feedingstuffs   |
| 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                                                                    | —                                |                                      | —           | —                                                    | — | —                       |                     |
| E 473  | Sucrose esters of fatty acids (esters of saccharose and edible fatty acids)                        | —                                |                                      | —           | —                                                    | — | —                       |                     |
| 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                                          | —                                |                                      | —           | —                                                    | — | —                       |                     |

| EEC No | Additive                                                                                                     | Chemical formula,<br>description | Species or category<br>of animal     | Maximum age | Minimum content<br>mg/kg of complete<br>feedingstuff |   | Maxi-<br>mum<br>content | Other<br>provisions |
|--------|--------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------------------------|-------------|------------------------------------------------------|---|-------------------------|---------------------|
|        |                                                                                                              |                                  |                                      |             |                                                      |   |                         |                     |
| E 477  | Mono-esters of propane-1,2-diol (propyleneglycol) and edible fatty acids, alone or in mixtures with diesters | —                                | All species or categories of animals | —           | —                                                    | — | —                       | All feedingstuffs   |
| E 480  | Stearoyl-2-lactylic acid                                                                                     | —                                |                                      | —           | —                                                    | — | —                       |                     |
| E 481  | Sodium stearoyl-2-lactylate                                                                                  | —                                |                                      | —           | —                                                    | — | —                       |                     |
| E 482  | Calcium stearoyl-2-lactylate                                                                                 | —                                |                                      | —           | —                                                    | — | —                       |                     |
| E 483  | Stearyl tartrate                                                                                             | —                                |                                      | —           | —                                                    | — | —                       |                     |
| E 484  | Glyceryl polyethyleneglycol ricinoleate                                                                      | —                                | Calves                               | —           | —                                                    | — | —                       | 6 000               |
| E 486  | Dextrans                                                                                                     | —                                |                                      | —           | —                                                    | — | —                       |                     |
| E 487  | Polyethyleneglycol ester of fatty acids from soya oil                                                        | —                                |                                      | —           | —                                                    | — | —                       |                     |

| EEC No | Additive                                                                                    | Chemical formula,<br>description | Species or category<br>of animal                         | Maximum age | Minimum content<br>mg/kg of complete<br>feedingsstuff |   | Maximum<br>content | Other<br>provisions |
|--------|---------------------------------------------------------------------------------------------|----------------------------------|----------------------------------------------------------|-------------|-------------------------------------------------------|---|--------------------|---------------------|
|        |                                                                                             |                                  |                                                          |             |                                                       |   |                    |                     |
| E 488  | Polyoxyethylated glyceride of tallow fatty acids                                            | —                                | Calves                                                   | —           | —                                                     | — | 5 000              | Milk replacers only |
| E 489  | Ether of polyglycerol and of alcohols obtained by the reduction of oleic and palmitic acids | —                                | Calves                                                   | —           | —                                                     | — | 5 000              |                     |
| E 490  | Propane-1,2-diol                                                                            | —                                | Dairy cows                                               | —           | —                                                     | — | 12 000             | All feedingsstuff   |
| E 491  | Sorbitan monostearate                                                                       | —                                | Cattle for fattening, calves, lambs, kids, pigs, poultry | —           | —                                                     | — | 36 000             |                     |
| E 492  | Sorbitan tristearate                                                                        | —                                |                                                          | —           | —                                                     | — | —                  |                     |
| E 493  | Sorbitan monolaurate                                                                        | —                                |                                                          | —           | —                                                     | — | —                  |                     |
| 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                                                     | —           | —                                                     | — | —                  |                     |

| EEC No                                  | Additive                                   | Chemical formula,<br>description               | Species or category<br>of animal                   | Maximum age | Minimum content                   |                                                              | Maximum<br>content<br>mg/kg of complete<br>feedingstuff | Other<br>provisions                                                                                                                                                                                                      |
|-----------------------------------------|--------------------------------------------|------------------------------------------------|----------------------------------------------------|-------------|-----------------------------------|--------------------------------------------------------------|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                         |                                            |                                                |                                                    |             | mg/kg of complete<br>feedingstuff |                                                              |                                                         |                                                                                                                                                                                                                          |
| F. Colouring matters including pigments |                                            |                                                |                                                    |             |                                   |                                                              |                                                         |                                                                                                                                                                                                                          |
| 1. Carotenoids and xanthophylls:        |                                            |                                                |                                                    |             |                                   |                                                              |                                                         |                                                                                                                                                                                                                          |
| E 160c                                  | Capsanthin                                 | C <sub>40</sub> H <sub>56</sub> O <sub>3</sub> | Poultry                                            | —           | —                                 | 80<br>(alone or with the other carotenoids and xanthophylls) | —                                                       |                                                                                                                                                                                                                          |
| E 160e                                  | Beta-apo-8'-carotenal                      | C <sub>30</sub> H <sub>40</sub> O              |                                                    | —           | —                                 |                                                              | —                                                       |                                                                                                                                                                                                                          |
| E 160f                                  | Ethyl ester of beta-apo-8'-carotenoic acid | C <sub>32</sub> H <sub>44</sub> O <sub>2</sub> |                                                    | —           | —                                 |                                                              | —                                                       |                                                                                                                                                                                                                          |
| E 161b                                  | Lutein                                     | C <sub>40</sub> H <sub>56</sub> O <sub>2</sub> |                                                    | —           | —                                 |                                                              | —                                                       |                                                                                                                                                                                                                          |
| E 161c                                  | Cryptoxanthin                              | C <sub>40</sub> H <sub>56</sub> O              |                                                    | —           | —                                 |                                                              | —                                                       |                                                                                                                                                                                                                          |
| E 161e                                  | Violaxanthin                               | C <sub>40</sub> H <sub>56</sub> O <sub>4</sub> | (a) Poultry<br>(b) Dogs, cats<br>(c) Salmon, trout | —           | —                                 | 80                                                           | —                                                       |                                                                                                                                                                                                                          |
| E 161g                                  | Canthaxanthin                              | C <sub>40</sub> H <sub>52</sub> O <sub>2</sub> |                                                    | —           | —                                 |                                                              | —                                                       |                                                                                                                                                                                                                          |
|                                         |                                            |                                                |                                                    |             |                                   |                                                              |                                                         | Use permitted from the age of 6 months onwards.<br>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 feedingstuff. |

| EEC No | Additive           | Chemical formula,<br>description                                                                           | Species or category<br>of animal                                                                          | Maximum age | Minimum content<br>mg/kg of complete<br>feedingstuff |                                                                                               | Maximum<br>content | Other<br>provisions                                                                                                                                                                                                                                                                                                                                               |
|--------|--------------------|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-------------|------------------------------------------------------|-----------------------------------------------------------------------------------------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        |                    |                                                                                                            |                                                                                                           |             |                                                      |                                                                                               |                    |                                                                                                                                                                                                                                                                                                                                                                   |
| E 161h | 1. Zeaxanthin      | $C_{40}H_{56}O_2$                                                                                          | Poultry                                                                                                   | —           | —                                                    | 80<br>(alone<br>or with<br>the<br>other<br>caro-<br>tenoids<br>and<br>xan-<br>tho-<br>phylls) | —                  | —                                                                                                                                                                                                                                                                                                                                                                 |
| E 161i | Citranaxanthin     | $C_{33}H_{44}O$                                                                                            | Laying hens                                                                                               | —           | —                                                    | —                                                                                             | —                  | —                                                                                                                                                                                                                                                                                                                                                                 |
| E 161j | Astaxanthin        | $C_{40}H_{52}O_4$                                                                                          | Salmon, trout                                                                                             | —           | —                                                    | 100                                                                                           | —                  | Use only permitted from the age<br>of 6 months onwards.<br>The mixture of astaxanthin with<br>canthaxanthin is allowed prov-<br>ided that the total concentration<br>of the mixture does not exceed<br>100 mg/kg in the complete feed-<br>ingstuff.                                                                                                               |
| E 131  | 2.1. Patent Blue V | Calcium salt of the disulphonic<br>acid of m-hydroxy-tetra-<br>ethyldiamino triphenylcarbinol<br>anhydride | (a) All species or categories<br>of animals with the excep-<br>tion of dogs and cats<br><br>b) Dogs, cats | —           | —                                                    | —                                                                                             | —                  | Permitted in animal feeding-<br>stuffs only in products pro-<br>cessed from:<br>(i) waste products of food-<br>stuffs,<br>(ii) denatured cereals or manioc<br>flour, or<br>(iii) other base substances dena-<br>tured by means of these<br>agents or coloured during<br>technical preparation to en-<br>sure the necessary identifica-<br>tion during manufacture |

| EEC No | Additive                                                                                                                        | Chemical formula,<br>description                                                            | Species or category<br>of animal                                             | Maximum age | Minimum content<br>mg/kg of complete<br>feedingstuff |                    | Other<br>provisions                                                                                                                                                                                                                                                                                                               |
|--------|---------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|-------------|------------------------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        |                                                                                                                                 |                                                                                             |                                                                              |             | Minimum<br>content                                   | Maximum<br>content |                                                                                                                                                                                                                                                                                                                                   |
| E 142  | 2.2. Acid Brilliant Green BS,<br>(Lissamine Green)                                                                              | Sodium salt of 4,4'-bis (dimethylamino) diphenyl/methylene-2-naphthol-3,6-disulphon-ic acid | (a) All species or categories of animals with the exception of dogs and cats | —           | —                                                    | —                  | Permitted in animal feeding-stuffs only in products processed from:<br>(i) waste products of food-stuffs,<br>(ii) denatured cereals or manioc flour, or<br>(iii) other base substances denatured by means of these agents or coloured during technical preparation to ensure the necessary identification during manufacture      |
|        | 3. All colouring agents authorized for colouring foodstuffs by Community rules, other than those already covered by 2.1 and 2.2 | —                                                                                           | (b) Dogs, cats                                                               | —           | —                                                    | —                  | Permitted in animal feeding-stuffs only in products processed from:<br>(i) waste products of food-stuffs, or<br>(ii) other base substances, with the exception of cereals and manioc flour, denatured by means of these agents or coloured during technical preparation to ensure the necessary identification during manufacture |

| EEC No | Additive                                  | Chemical formula,<br>description | Species or category<br>of animal        | Maximum age | Minimum content<br>mg/kg of complete<br>feedingsstuff |                    | Other<br>provisions |
|--------|-------------------------------------------|----------------------------------|-----------------------------------------|-------------|-------------------------------------------------------|--------------------|---------------------|
|        |                                           |                                  |                                         |             | Minimum<br>content                                    | Maximum<br>content |                     |
| E 200  | <b>G. Preservatives</b><br>Sorbic acid    | $C_6H_8O_2$                      | All species or categories<br>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                                    | —           | —                                                     | —                  |                     |
| E 215  | Sodium ethyl 4-hydroxy-<br>benzoate       | $C_9H_9O_3Na$                    |                                         | —           | —                                                     | —                  |                     |
| E 216  | Propyl 4-hydroxybenzoate                  | $C_{10}H_{12}O_3$                |                                         | —           | —                                                     | —                  |                     |
| E 217  | Sodium propyl 4-hydroxy-<br>benzoate      | $C_{10}H_{11}O_3Na$              |                                         | —           | —                                                     | —                  |                     |
| E 218  | Methyl 4-hydroxyben-<br>zoate             | $C_8H_8O_3$                      |                                         | —           | —                                                     | —                  |                     |
| E 219  | Sodium methyl 4-hy-<br>droxy-<br>benzoate | $C_8H_7O_3Na$                    |                                         | —           | —                                                     | —                  |                     |

| EEC No | Additive              | Chemical formula,<br>description          | Species or category<br>of animal             | Maximum age | Minimum content<br>mg/kg of complete<br>feedingstuff |                                                                             | Other<br>provisions                                |
|--------|-----------------------|-------------------------------------------|----------------------------------------------|-------------|------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------|
|        |                       |                                           |                                              |             | Minimum<br>content                                   | Maximum<br>content                                                          |                                                    |
| E 222  | Sodium bisulphite     | $\text{NaHSO}_3$                          | Dogs, cats                                   | —           | —                                                    | separately or together: 500 mg/kg of complete feedingstuff as $\text{SO}_2$ | All feedingstuffs except unprocessed meat and fish |
| E 223  | Sodium metabisulphite | $\text{Na}_2\text{S}_2\text{O}_5$         |                                              | —           | —                                                    |                                                                             |                                                    |
| E 236  | Formic acid           | $\text{CH}_2\text{O}_2$                   | All species or categories of animals         | —           | —                                                    | —                                                                           | All feedingstuffs                                  |
| E 237  | Sodium formate        | $\text{CHO}_2\text{Na}$                   |                                              | —           | —                                                    | —                                                                           |                                                    |
| E 238  | Calcium formate       | $\text{C}_2\text{H}_3\text{O}_4\text{Ca}$ |                                              | —           | —                                                    | —                                                                           |                                                    |
| E 240  | Formaldehyde          | $\text{CH}_2\text{O}$                     | Pigs<br>All species or categories of animals | 6 months    | —                                                    | —                                                                           | Skimmed milk only:<br>maximum content: 600 mg/kg   |
| E 250  | Sodium nitrate        | $\text{NaNO}_2$                           | Dogs, cats                                   | —           | —                                                    | 100                                                                         | Canned feedingstuffs only                          |
| E 260  | Acetic acid           | $\text{C}_2\text{H}_4\text{O}_2$          | All species or categories of animals         | —           | —                                                    | —                                                                           | All feedingstuffs                                  |
| E 261  | Potassium acetate     | $\text{C}_2\text{H}_3\text{O}_2\text{K}$  |                                              | —           | —                                                    | —                                                                           |                                                    |
| E 262  | Sodium diacetate      | $\text{C}_4\text{H}_7\text{O}_4\text{Na}$ |                                              | —           | —                                                    | —                                                                           |                                                    |
| E 263  | Calcium acetate       | $\text{C}_4\text{H}_7\text{O}_4\text{Ca}$ |                                              | —           | —                                                    | —                                                                           |                                                    |

| EEC No | Additive             | Chemical formula,<br>description | Species or category<br>of animal        | Maximum age | Minimum content<br>mg/kg of complete<br>feedingstuff |   | Maximum<br>content<br>mg/kg of complete<br>feedingstuff | Other<br>provisions |
|--------|----------------------|----------------------------------|-----------------------------------------|-------------|------------------------------------------------------|---|---------------------------------------------------------|---------------------|
|        |                      |                                  |                                         |             |                                                      |   |                                                         |                     |
| E 270  | Lactic acid          | $C_3H_6O_3$                      | All species or categories<br>of animals | —           | —                                                    | — | —                                                       | All feedingstuffs   |
| E 280  | Propionic acid       | $C_3H_6O_2$                      |                                         | —           | —                                                    | — | —                                                       |                     |
| E 281  | Sodium propionate    | $C_3H_5O_2Na$                    |                                         | —           | —                                                    | — | —                                                       |                     |
| E 282  | Calcium propionate   | $C_6H_{10}O_4Ca$                 |                                         | —           | —                                                    | — | —                                                       |                     |
| E 283  | Potassium propionate | $C_3H_5O_2K$                     |                                         | —           | —                                                    | — | —                                                       |                     |
| E 284  | Ammonium propionate  | $C_3H_5O_2N$                     |                                         | —           | —                                                    | — | —                                                       |                     |
| E 295  | Ammonium formate     | $CH_3O_2N$                       |                                         | —           | —                                                    | — | —                                                       |                     |
| E 296  | DL-Malic acid        | $C_4H_6O_5$                      |                                         | —           | —                                                    | — | —                                                       |                     |
| E 297  | Fumaric acid         | $C_4H_4O_4$                      |                                         | —           | —                                                    | — | —                                                       |                     |
| E 325  | Sodium lactate       | $C_3H_5O_3Na$                    |                                         | —           | —                                                    | — | —                                                       |                     |
| E 326  | Potassium lactate    | $C_3H_5O_3K$                     |                                         | —           | —                                                    | — | —                                                       |                     |
| E 327  | Calcium lactate      | $C_6H_{10}O_6Ca$                 |                                         | —           | —                                                    | — | —                                                       |                     |
| E 330  | Citric acid          | $C_6H_8O_7$                      |                                         | —           | —                                                    | — | —                                                       |                     |

| EEC No | Additive                    | Chemical formula,<br>description | Species or category<br>of animal        | Maximum age | Minimum content<br>mg/kg of complete<br>feedingsuff |                    | Other<br>provisions |
|--------|-----------------------------|----------------------------------|-----------------------------------------|-------------|-----------------------------------------------------|--------------------|---------------------|
|        |                             |                                  |                                         |             | Minimum<br>content                                  | Maximum<br>content |                     |
| E 331  | Sodium citrates             | —                                | All species or categories<br>of animals | —           | —                                                   | —                  | All feedingstuffs   |
| E 332  | Potassium citrates          | —                                |                                         | —           | —                                                   | —                  |                     |
| E 333  | Calcium citrates            | —                                |                                         | —           | —                                                   | —                  |                     |
| E 334  | L-Tartaric acid             | $C_4H_6O_6$                      |                                         | —           | —                                                   | —                  |                     |
| E 335  | Sodium L-tartrates          | —                                |                                         | —           | —                                                   | —                  |                     |
| E 336  | Potassium L-tartrates       | —                                |                                         | —           | —                                                   | —                  |                     |
| E 337  | Potassium sodium L-tartrate | $C_4H_4O_6KNa \cdot 4H_2O$       | Dogs<br>Cats                            | —           | —                                                   | —                  | For silage only     |
| E 338  | Orthophosphoric acid        | $H_3PO_4$                        |                                         | —           | —                                                   | —                  |                     |
| E 490  | Propane-1,2-diol            | $C_3H_8O_2$                      |                                         | —           | —                                                   | 53 000<br>75 000   |                     |
| E 507  | Hydrochloric acid           | HCl                              | All species or categories<br>of animals | —           | —                                                   | —                  | For silage only     |
| E 513  | Sulphuric acid              | $H_2SO_4$                        |                                         | —           | —                                                   | —                  |                     |

| EEC No | Additive                                                                                                                                                            | Chemical formula,<br>description | Species or category<br>of animal                                           | Maximum<br>age | Maximum con-<br>tent in/kg of<br>complete feed-<br>ingstuff or of the<br>daily ration | Other provisions                                            |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|----------------------------------------------------------------------------|----------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------|
| E 672  | H. Vitamins, provitamins and<br>chemically well defined<br>substances having a similar<br>effect<br><br>1. Vitamin A<br><br>2. Vitamin D:<br>Vitamin D <sub>2</sub> | —                                | Chickens for fattening                                                     | —              | 20 000                                                                                | All<br>feedingstuffs                                        |
|        |                                                                                                                                                                     |                                  | Other species or categories of<br>animals                                  | —              | —                                                                                     |                                                             |
|        |                                                                                                                                                                     |                                  | Pigs                                                                       | —              | 2 000                                                                                 | Milk replacers<br>only                                      |
|        |                                                                                                                                                                     |                                  | Piglets                                                                    | —              | 10 000                                                                                |                                                             |
| E 670  |                                                                                                                                                                     |                                  | Bovines                                                                    | —              | 4 000                                                                                 | Simultaneous<br>use of vitamin<br>D <sub>3</sub> prohibited |
|        |                                                                                                                                                                     |                                  | Ovines                                                                     | —              | 4 000                                                                                 |                                                             |
|        |                                                                                                                                                                     |                                  | Calves                                                                     | —              | 10 000                                                                                | Milk replacers<br>only                                      |
|        |                                                                                                                                                                     |                                  | Equines                                                                    | —              | 4 000                                                                                 | —                                                           |
| E 671  | Vitamin D <sub>3</sub>                                                                                                                                              |                                  | Other species or categories of<br>animals with the exception of<br>poultry | —              | 2 000                                                                                 | Simultaneous<br>use of vitamin<br>D <sub>2</sub> prohibited |
|        |                                                                                                                                                                     |                                  | Pigs                                                                       | —              | 2 000                                                                                 |                                                             |
|        |                                                                                                                                                                     |                                  | Piglets                                                                    | —              | 10 000                                                                                |                                                             |
|        |                                                                                                                                                                     |                                  | Bovines                                                                    | —              | 4 000                                                                                 |                                                             |

| EEC No | Additive                                                     | Chemical formula,<br>description | Species or category<br>of animal          | Maximum<br>age | Maximum con-<br>tent iu/kg of<br>complete feed-<br>ingstuff or of the<br>daily ration | Other provisions       |                                                             |
|--------|--------------------------------------------------------------|----------------------------------|-------------------------------------------|----------------|---------------------------------------------------------------------------------------|------------------------|-------------------------------------------------------------|
|        | 3. All substances in the<br>group except vitamins A<br>and D | —                                | Ovines                                    | —              | 4 000                                                                                 | —                      | Simultaneous<br>use of vitamin<br>D <sub>2</sub> prohibited |
|        |                                                              |                                  | Calves                                    | —              | 10 000                                                                                | Milk replacers<br>only |                                                             |
|        |                                                              |                                  | Equines                                   | —              | 4 000                                                                                 | —                      |                                                             |
|        |                                                              |                                  | Chickens for fattening                    | —              | 5 000                                                                                 | —                      |                                                             |
|        |                                                              |                                  | Turkeys                                   | —              | 5 000                                                                                 | —                      |                                                             |
|        |                                                              |                                  | Other poultry                             | —              | 3 000                                                                                 | —                      |                                                             |
|        |                                                              |                                  | Other species or categories of<br>animals | —              | 2 000                                                                                 | —                      |                                                             |
|        |                                                              |                                  | All species or categories of an-<br>imals | —              | —                                                                                     | All feeding-<br>stuffs |                                                             |

| 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<br>Iron — Fe | Ferrous carbonate              | FeCO <sub>3</sub>                                                                               | 1 250 (total)                                                        | —                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                | Ferrous chloride, tetrahydrate | FeCl <sub>2</sub> ·4H <sub>2</sub> O                                                            |                                                                      | —                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                | Ferric chloride, hexahydrate   | FeCl <sub>3</sub> ·6H <sub>2</sub> O                                                            |                                                                      | —                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                | Ferrous citrate, hexahydrate   | Fe <sub>3</sub> (C <sub>6</sub> H <sub>5</sub> O <sub>7</sub> ) <sub>2</sub> ·6H <sub>2</sub> O |                                                                      | —                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                | Ferrous fumarate               | FeC <sub>4</sub> H <sub>2</sub> O <sub>4</sub>                                                  |                                                                      | —                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                | Ferrous lactate, trihydrate    | Fe(C <sub>3</sub> H <sub>5</sub> O <sub>3</sub> ) <sub>2</sub> ·3H <sub>2</sub> O               |                                                                      | —                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                | Ferric oxide                   | Fe <sub>2</sub> O <sub>3</sub>                                                                  |                                                                      | —                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                | Ferrous sulphate, monohydrate  | FeSO <sub>4</sub> H <sub>2</sub> O                                                              |                                                                      | —                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                |                                |                                                                                                 |                                                                      |                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                |                                | Ferrous sulphate, heptahydrate                                                                  |                                                                      | FeSO <sub>4</sub> ·7H <sub>2</sub> O |
| Permitted only for denaturing:<br>— in skimmed milk powder and<br>— in compound feedingstuffs manufactured from denatured skimmed milk powder<br><br>Subject to the relevant provisions of Commission Regulations (EEC) No 368/77 and (EEC) No 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.<br><br>Permitted:<br>(i) in denatured skimmed milk and in compound feedingstuffs manufactured from denatured skimmed milk powder<br>— subject to the mandatory provisions of Commission Regulations (EEC) No 368/77 and (EEC) No 443/77 |                                |                                |                                                                                                 |                                                                      |                                      |

| EEC No | Element     | Additive                               | Chemical formula                                                        | Maximum content of the element in mg/kg of the complete feedingstuff | Other provisions                                                                                                                                                                                                           |
|--------|-------------|----------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| E 2    | Iodine — I  | Calcium iodate, hexahydrate            | $\text{Ca}(\text{IO}_3)_2 \cdot 6\text{H}_2\text{O}$                    | 40 (total)                                                           | <p>— declaration of the amount of iron added, expressed as the element, on the label or package or container of denatured skimmed milk powder</p> <p>(ii) in compound feedingstuffs other than those listed under (i).</p> |
|        |             | Calcium iodate, anhydrous              | $\text{Ca}(\text{IO}_3)_2$                                              |                                                                      |                                                                                                                                                                                                                            |
|        |             | Sodium iodide                          | $\text{NaI}$                                                            |                                                                      |                                                                                                                                                                                                                            |
|        |             | Potassium iodide                       | $\text{KI}$                                                             |                                                                      |                                                                                                                                                                                                                            |
|        |             |                                        |                                                                         |                                                                      |                                                                                                                                                                                                                            |
| E 3    | Cobalt — Co | Cobaltous acetate, tetrahydrate        | $\text{Co}(\text{CH}_3\text{COO})_2 \cdot 4\text{H}_2\text{O}$          | 10 (total)                                                           |                                                                                                                                                                                                                            |
|        |             | Basic cobaltous carbonate, monohydrate | $2\text{CoCO}_3 \cdot 3\text{Co}(\text{OH})_2 \cdot \text{H}_2\text{O}$ |                                                                      |                                                                                                                                                                                                                            |
|        |             | Cobaltous chloride, hexahydrate        | $\text{CoCl}_2 \cdot 6\text{H}_2\text{O}$                               |                                                                      |                                                                                                                                                                                                                            |
|        |             | Cobaltous sulphate, heptahydrate       | $\text{CoSO}_4 \cdot 7\text{H}_2\text{O}$                               |                                                                      |                                                                                                                                                                                                                            |
|        |             | Cobaltous sulphate, monohydrate        | $\text{CoSO}_4 \cdot \text{H}_2\text{O}$                                |                                                                      |                                                                                                                                                                                                                            |
|        |             | Cobaltous nitrate, hexahydrate         | $\text{Co}(\text{NO}_3)_2 \cdot 6\text{H}_2\text{O}$                    |                                                                      |                                                                                                                                                                                                                            |

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

| EEC No | Element | Additive                      | Chemical formula                          | Maximum content of the element in mg/kg of the complete feedstuff                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Other provisions                                                                                                                                                                                                                                                                                                                                                |
|--------|---------|-------------------------------|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        |         | Cupric sulphate, monohydrate  | $\text{CuSO}_4 \cdot \text{H}_2\text{O}$  | Other species or categories of animals: 35 (total)<br>Pigs for fattening:<br>— 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:<br>— up to 16 weeks: 175 (total)<br>— from 17th week up to slaughter: 35 (total)<br>— In Member States where the mean density of the porcine population is lower than 175 pigs per 100 ha of utilizable agricultural land:<br>— up to 16 weeks: 175 (total)<br>— from 17th week up to six months: 100 (total)<br>— over six months up to slaughter: 35 (total)<br>Breeding pigs: 35 (total)<br>Ovines: 15 (total)<br>Other species or categories of animals with the exception of calves: 35 (total) | Denatured skimmed milk powder and compound feedstuffs manufactured from denatured skimmed milk powder:<br>— Subject to the relevant provisions of Commission Regulations (EEC) No 368/77 and (EEC) No 443/77<br>— 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 | $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$ |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                 |

| EEC No | Element         | Additive                                 | Chemical formula                                                        | Maximum content of the element in mg/kg of the complete feed-ingstuff | Other provisions |
|--------|-----------------|------------------------------------------|-------------------------------------------------------------------------|-----------------------------------------------------------------------|------------------|
| E 5    | Manganese — Mn  | Manganous carbonate                      | $\text{MnCO}_3$                                                         | 250 (total)                                                           | —                |
|        |                 | Manganous chloride, tetrahydrate         | $\text{MnCl}_2 \cdot 4\text{H}_2\text{O}$                               |                                                                       | —                |
|        |                 | Manganous hydrogen phosphate, trihydrate | $\text{MnHPO}_4 \cdot 3\text{H}_2\text{O}$                              |                                                                       | —                |
|        |                 | Manganous oxide                          | $\text{MnO}$                                                            |                                                                       | —                |
|        |                 | Manganic oxide                           | $\text{Mn}_2\text{O}_3$                                                 |                                                                       | —                |
|        |                 | Manganous sulphate, tetrahydrate         | $\text{MnSO}_4 \cdot 4\text{H}_2\text{O}$                               |                                                                       | —                |
|        |                 | Manganous sulphate, monohydrate          | $\text{MnSO}_4 \cdot \text{H}_2\text{O}$                                |                                                                       | —                |
|        |                 |                                          |                                                                         |                                                                       |                  |
| E 6    | Zinc — Zn       | Zinc lactate, trihydrate                 | $\text{Zn}(\text{C}_3\text{H}_5\text{O}_3)_2 \cdot 3\text{H}_2\text{O}$ | 250 (total)                                                           | —                |
|        |                 | Zinc acetate, dihydrate                  | $\text{Zn}(\text{CH}_3 \cdot \text{COO})_2 \cdot 2\text{H}_2\text{O}$   |                                                                       | —                |
|        |                 | Zinc carbonate                           | $\text{ZnCO}_3$                                                         |                                                                       | —                |
|        |                 | Zinc chloride, monohydrate               | $\text{ZnCl}_2 \cdot \text{H}_2\text{O}$                                |                                                                       | —                |
|        |                 | Zinc oxide                               | $\text{ZnO}$                                                            |                                                                       | —                |
|        |                 | Zinc sulphate, heptahydrate              | $\text{ZnSO}_4 \cdot 7\text{H}_2\text{O}$                               |                                                                       | —                |
|        |                 | Zinc sulphate, monohydrate               | $\text{ZnSO}_4 \cdot \text{H}_2\text{O}$                                |                                                                       | —                |
|        |                 |                                          |                                                                         |                                                                       |                  |
| E 7    | Molybdenum — Mo | Ammonium molybdate                       | $(\text{NH}_4)_6\text{Mo}_7\text{O}_{24} \cdot 4\text{H}_2\text{O}$     | 2,5 (total)                                                           | —                |
|        |                 | Sodium molybdate                         | $\text{Na}_2\text{MoO}_4 \cdot 2\text{H}_2\text{O}$                     |                                                                       | —                |

| EEC No | Element       | Additive                           | Chemical formula                                       | Maximum content of the element<br>in mg/kg of the complete feed-<br>ingstuff | Other provisions |
|--------|---------------|------------------------------------|--------------------------------------------------------|------------------------------------------------------------------------------|------------------|
| E 8    | Selenium — Se | Sodium selenite<br>Sodium selenate | $\text{Na}_2\text{SeO}_3$<br>$\text{Na}_2\text{SeO}_4$ | 0,5 (total)                                                                  | —<br>—           |

| EEC No | Additive                        | Chemical formula, description                                                                                                                                                                                                                                                                                                        | Species or category of animal | Maximum age | Minimum content                |         | Maximum content                                                                                                                                                                                                                                                                                                                                                                                                                   | Other provisions |
|--------|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------|--------------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
|        |                                 |                                                                                                                                                                                                                                                                                                                                      |                               |             | mg/kg of complete feedingstuff |         |                                                                                                                                                                                                                                                                                                                                                                                                                                   |                  |
| E 850  | J. Growth promoters<br>Carbadox | Methyl 3-(2-quinoxalinylmethylene)carbazate N <sup>1</sup> , N <sup>4</sup> -dioxide<br><br>Minimum purity: 96 %<br>Characteristics of the authorized preparations:<br>— carbadox content: 5 or 10 %<br>— minimum stability: 24 months<br>— propionic acid: 0,5 %<br>— soya bean oil: 7 %<br>— soya bean mill run: up to 100 %       | Piglets                       | 4 months    | 20                             | 50      | Use prohibited at least 4 weeks before slaughter<br><br>Maximum amount of dust emitted during handlings as determined by the Stauber Heubach method (1): 0,1 µg carbadox<br><br>Indication on the label of the additives, premixtures and feed-stuffs 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 <sup>1</sup> , N <sup>4</sup> -dioxide<br><br>Minimum purity: 98 %<br>Characteristics of the authorized preparation:<br>— olaquinox content: 10 %<br>— minimum stability: 24 months<br>— medium: calcium carbonate containing 1,5 % of glyceryl polyethyleneglycol ricinoleate | Piglets                       | 4 months    | 15                             | 50      | Use prohibited at least 4 weeks before slaughter<br><br>Maximum amount of dust emitted during handling as determined by the Stauber Heubach method (1): 0,1 µg olaquinox<br><br>Indication on the label of the additives, premixtures and feed-stuffs 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 |                  |
|        |                                 |                                                                                                                                                                                                                                                                                                                                      |                               | 4 months    | 50 (2)                         | 100 (2) |                                                                                                                                                                                                                                                                                                                                                                                                                                   |                  |

<sup>(1)</sup> Reference: Fresenius Z. Anal. Chem. (1984) 318: 522-4, Springer Verlag 1984.<sup>(2)</sup> Milk replacers only.

| EEC No | Additive                                                        | Chemical formula,<br>description                                                                                                                                | Species or category<br>of animal        | Maximum age | Minimum content<br>mg/kg of complete<br>feedingstuff |   | Maxi-<br>mum<br>content | Other<br>provisions                                                           |
|--------|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-------------|------------------------------------------------------|---|-------------------------|-------------------------------------------------------------------------------|
|        |                                                                 |                                                                                                                                                                 |                                         |             |                                                      |   |                         |                                                                               |
| E 330  | L. Binders, anti-caking<br>agents and coagulants<br>Citric acid | C <sub>6</sub> H <sub>8</sub> O <sub>7</sub>                                                                                                                    |                                         | —           | —                                                    | — | —                       | All feedingstuffs. Compliance<br>with the provisions of Article 16<br>(1) (g) |
|        |                                                                 |                                                                                                                                                                 |                                         |             | —                                                    | — | —                       |                                                                               |
| E 470  | Sodium, potassium and<br>calcium stearates                      | C <sub>18</sub> H <sub>35</sub> O <sub>2</sub> Na,<br>C <sub>18</sub> H <sub>35</sub> O <sub>2</sub> K and<br>C <sub>36</sub> H <sub>70</sub> O <sub>4</sub> Ca |                                         | —           | —                                                    | — | —                       |                                                                               |
| E 516  | Calcium sulphate, dihy-<br>drate                                | CaSO <sub>4</sub> ·2H <sub>2</sub> O                                                                                                                            |                                         |             | —                                                    | — | 30 000                  |                                                                               |
| E 551a | Silicic acid, precipitated<br>and dried                         | —                                                                                                                                                               | All species or categories<br>of animals | —           | —                                                    | — | —                       | All feedingstuffs                                                             |
| E 551b | Colloidal silica                                                | —                                                                                                                                                               |                                         |             | —                                                    | — | —                       |                                                                               |
| E 551c | Kieselgur (diatomaceous<br>earth, purified)                     | —                                                                                                                                                               |                                         | —           | —                                                    | — | —                       |                                                                               |
| E 552  | Calcium silicate, synthetic                                     | —                                                                                                                                                               |                                         |             | —                                                    | — | —                       |                                                                               |
| E 553  | Sepiolite                                                       | Hydrated magnesium silicate<br>of sedimentary origin, con-<br>taining at least 60 % sepiolite<br>and a maximum of 30 %<br>montmorillonite. Asbestos<br>free     |                                         | —           | 20 000                                               | — | —                       |                                                                               |
| E 554  | Sodium aluminosilicate,<br>synthetic                            | —                                                                                                                                                               |                                         | —           | —                                                    | — | —                       |                                                                               |

| EEC No | Additive                                       | Chemical formula,<br>description                                                                                                                         | Species or category<br>of animal        | Maximum age | Minimum content<br>mg/kg of complete<br>feedingstuff |                         | Other<br>provisions                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-------------|------------------------------------------------------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        |                                                |                                                                                                                                                          |                                         |             | Minimum<br>content                                   | Maxi-<br>mum<br>content |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| E 558  | Bentonite/<br>montmorillonite                  | —                                                                                                                                                        | All species or categories<br>of animals | —           | —                                                    | 20 000                  | All feedingstuffs. Mixing with<br>additives from the groups of 'an-<br>tibiotics', 'growth promoters',<br>'coccidiostats and other medi-<br>cinal substances' is prohibited<br>except in the case of:<br><br>tylosin phosphate, monensin so-<br>dium, narasin, ipronidazole, las-<br>alocid sodium, avoparcin, flavo-<br>phospholipol, salinamycin so-<br>dium, ronidazole, virginiamycin,<br>nicarbazin and robenidine<br><br>Indication on the label of the<br>specific name of the additive. |
| E 559  | Kaolinitic clays, free of<br>asbestos          | Naturally occurring mixtures<br>of minerals containing at least<br>65 % complex hydrated alu-<br>minium silicates whose main<br>constituent is kaolinite |                                         | —           | —                                                    | —                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| E 560  | Natural mixtures of stea-<br>tite and chlorite | Natural mixtures of steatite<br>and chlorite, free of asbestos;<br>minimum purity of the mix-<br>ture: 85 %                                              |                                         | —           | —                                                    | —                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| E 561  | Vermiculite                                    | Natural silicate of magne-<br>sium, aluminium and iron, ex-<br>panded by heating, free of as-<br>bestos<br><br>Maximum fluorine content:<br>0,3 %        |                                         | —           | —                                                    | —                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| E 565  | Lignosulphonates                               | —                                                                                                                                                        |                                         | —           | —                                                    | —                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| E 599  | Perlite                                        | Natural silicate of sodium and<br>aluminium, expanded by<br>heating, free of asbestos                                                                    |                                         | —           | —                                                    | —                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

| EEC No     | Additive                                          | Chemical formula,<br>description | Species or category<br>of animal | Maximum age | Minimum content<br>mg/kg of complete<br>feedstuff |  | Maximum<br>content | Other<br>provisions |
|------------|---------------------------------------------------|----------------------------------|----------------------------------|-------------|---------------------------------------------------|--|--------------------|---------------------|
|            |                                                   |                                  |                                  |             |                                                   |  |                    |                     |
| E 170      | <b>M. Acidity regulators</b><br>Calcium carbonate |                                  |                                  |             |                                                   |  |                    |                     |
| 296        | DL- and L-Malic acid                              |                                  |                                  |             |                                                   |  |                    |                     |
| —          | Ammonium dihydrogen<br>orthophosphate             |                                  |                                  |             |                                                   |  |                    |                     |
| —          | di Ammonium hydrogen<br>orthophosphate            |                                  |                                  |             |                                                   |  |                    |                     |
| E 339(i)   | Sodium dihydrogen or-<br>thophosphate             |                                  | Dogs, cats                       |             |                                                   |  |                    |                     |
| E 339(ii)  | di Sodium hydrogen or-<br>thophosphate            |                                  |                                  |             |                                                   |  |                    |                     |
| E 339(iii) | tri Sodium orthophos-<br>phate                    |                                  |                                  |             |                                                   |  |                    |                     |
| E 340(i)   | Potassium dihydrogen or-<br>thophosphate          |                                  |                                  |             |                                                   |  |                    |                     |
| E 340(ii)  | di Potassium hydrogen or-<br>thophosphate         |                                  |                                  |             |                                                   |  |                    |                     |
| E 340(iii) | tri Potassium orthophos-<br>phate                 |                                  |                                  |             |                                                   |  |                    |                     |

| EEC No      | Additive                                       | Chemical formula,<br>description | Species or category<br>of animal | Maximum age | Minimum content<br>mg/kg of complete<br>feedingstuff |  | Maximum<br>content<br>mg/kg of complete<br>feedingstuff | Other<br>provisions |
|-------------|------------------------------------------------|----------------------------------|----------------------------------|-------------|------------------------------------------------------|--|---------------------------------------------------------|---------------------|
|             |                                                |                                  |                                  |             |                                                      |  |                                                         |                     |
| E 341(i)    | Calcium tetrahydrogen<br>diorthophosphate      |                                  |                                  |             |                                                      |  |                                                         |                     |
| E 341(ii)   | Calcium hydrogen ortho-<br>phosphate           |                                  |                                  |             |                                                      |  |                                                         |                     |
| E 350(i)    | Sodium malate (salt of<br>DL- or L-Malic acid) |                                  |                                  |             |                                                      |  |                                                         |                     |
| E 450a(i)   | di Sodium dihydrogen di-<br>phosphate          |                                  |                                  |             |                                                      |  |                                                         |                     |
| E 450a(iii) | tetra Sodium diphosphate                       |                                  |                                  |             |                                                      |  |                                                         |                     |
| E 450a(iv)  | tetra Potassium diphos-<br>phate               |                                  |                                  |             |                                                      |  |                                                         |                     |
| E 450b(i)   | penta Sodium triphos-<br>phate                 |                                  | Dogs, cats                       |             |                                                      |  |                                                         |                     |
| E 450b(ii)  | penta Potassium triphos-<br>phate              |                                  |                                  |             |                                                      |  |                                                         |                     |
| E 500(i)    | Sodium carbonate                               |                                  |                                  |             |                                                      |  |                                                         |                     |
| 500(ii)     | Sodium hydrogen carbon-<br>ate                 |                                  |                                  |             |                                                      |  |                                                         |                     |
| 500(iii)    | Sodium sesquicarbonate                         |                                  |                                  |             |                                                      |  |                                                         |                     |
| 501(ii)     | Potassium hydrogen car-<br>bonate              |                                  |                                  |             |                                                      |  |                                                         |                     |



## ANNEX II

| No | Additive                    | Chemical formula,<br>description                                                                                                                                   | Species or<br>category<br>of animal                                                                            | Maximum age | Minimum content<br>mg/kg of complete<br>feedingstuff |                         | Other<br>provisions                                                                                                                                                                             | Period of<br>authorization |
|----|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------------------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
|    |                             |                                                                                                                                                                    |                                                                                                                |             | Minimum<br>content                                   | Maxi-<br>mum<br>content |                                                                                                                                                                                                 |                            |
| 22 | A. Antibiotics<br>Avoparcin | $C_{33}H_{46}O_{30}N_6Cl_3$ (Glycopep-<br>tide)                                                                                                                    | Lambs from<br>the begin-<br>ning of rum-<br>ination with<br>the excep-<br>tion of pas-<br>ture-grazed<br>lambs | 16 weeks    | 10                                                   | 20                      | —                                                                                                                                                                                               | 30. 11. 1991               |
|    |                             |                                                                                                                                                                    | Dairy cattle                                                                                                   | —           | 4                                                    | 10                      | Indicate in the instructions for<br>use:<br>'The quantity of avopar-<br>cin in the daily ration<br>must not exceed 100 mg<br>and, for reasons of effica-<br>cy, must not be less than<br>50 mg' | 30. 11. 1991               |
| 27 | Salinomycin sodium          | $C_{42}H_{69}O_{11}Na$ (Sodium salt of<br>a polyether monocarboxylic<br>acid produced by <i>Strepto-<br/>myces albus</i> )                                         | Piglets                                                                                                        | 4 months    | 30                                                   | 60                      | Indicate in the instruc-<br>tions for use:<br>'Dangerous for<br>equines'                                                                                                                        | 30. 11. 1991               |
|    |                             |                                                                                                                                                                    | Pigs                                                                                                           | 6 months    | 15                                                   | 30                      |                                                                                                                                                                                                 | 30. 11. 1991               |
| 28 | Avilamycin                  | $C_{57.62}H_{82.90}Cl_{1.2}O_{11.32}$ (Mixtures<br>of oligosaccharides of the or-<br>thosomycin group produced<br>by <i>Streptomyces viridochromo-<br/>genes</i> ) | Piglets                                                                                                        | 4 months    | 20                                                   | 40                      | —                                                                                                                                                                                               | 30. 11. 1991               |
|    |                             |                                                                                                                                                                    | Pigs                                                                                                           | 6 months    | 10                                                   | 20                      | —                                                                                                                                                                                               | 30. 11. 1991               |
|    |                             |                                                                                                                                                                    | Chickens for<br>fattening                                                                                      | —           | 2,5                                                  | 10                      | —                                                                                                                                                                                               | 30. 11. 1991               |

| No | Additive                                                                                                                        | Chemical formula,<br>description                                                                                                  | Species or<br>category<br>of animal | Maximum<br>age | Minimum<br>content<br>mg/kg of complete<br>feedingsstuff |     | Maximum<br>content | Other<br>provisions                                                                                                                                                                                                        | Period of<br>authorization |
|----|---------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|----------------|----------------------------------------------------------|-----|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
|    |                                                                                                                                 |                                                                                                                                   |                                     |                |                                                          |     |                    |                                                                                                                                                                                                                            |                            |
|    | <b>B. Antioxidants</b>                                                                                                          |                                                                                                                                   |                                     |                |                                                          |     |                    |                                                                                                                                                                                                                            |                            |
|    | <b>D. Coccidiostats and other<br/>medicinal substances</b>                                                                      |                                                                                                                                   |                                     |                |                                                          |     |                    |                                                                                                                                                                                                                            |                            |
| 16 | Meticlorpindol/methyl-<br>benzoate (mixture of<br>100 parts of (a) meticlor-<br>pindol and 8,35 parts of<br>(b) methylbenzoate) | a) 3,5-dichloro-2,6-dimethyl<br>pyridin-4-ol<br>b) 7-benzoyloxy-6-butyl-3-<br>methoxy carbonyl-4-quin-<br>olone                   | Rabbits                             | —              | 220                                                      | 220 | 220                | Use prohibited at least 5 days<br>before slaughter                                                                                                                                                                         | 30. 11. 1991               |
| 20 | Lasalocid sodium                                                                                                                | $C_{34}H_{53}O_8Na$ (sodium salt of a<br>polyether monocarboxylic<br>acid produced by <i>Strepto-<br/>myces lasaliensis</i> )     | Turkeys                             | 12 weeks       | 90                                                       | 125 | 125                | Use prohibited at least 5 days<br>before slaughter                                                                                                                                                                         | 30. 11. 1991               |
| 21 | Maduramicin ammonium                                                                                                            | $C_{47}H_{83}O_{17}N$ (ammonium salt<br>of a polyether monocarboxyl-<br>ic acid produced by <i>Actino-<br/>madura yumaensis</i> ) | Chickens for<br>fattening           | —              | 5                                                        | 5   | 5                  | Indicate in the instructions for<br>use:<br>— Use prohibited at least<br>7 days before slaugh-<br>ter<br>— Dangerous for<br>equines<br>Mixture of maduramicin am-<br>monium with bentonite mont-<br>morillonite is allowed | 30. 11. 1991               |
| 22 | Robenidine                                                                                                                      | 1,3-bis[(4-chlorobenzylidene)-<br>amino] guanidine hydrochlor-<br>ide                                                             | Rabbits for<br>breeding<br>purposes | —              | 50                                                       | 66  | 66                 | Use prohibited at least 5 days-<br>before slaughter                                                                                                                                                                        | 30. 11. 1991               |

| No | Additive                                                                            | Chemical formula,<br>description                                                                                                                                                                                                                | Species or<br>category<br>of animal                                    | Maximum<br>age | Minimum<br>content<br>mg/kg of complete<br>feedingstuff |                    | Other provisions                                                                                                    | Period of<br>authorization |
|----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|----------------|---------------------------------------------------------|--------------------|---------------------------------------------------------------------------------------------------------------------|----------------------------|
|    |                                                                                     |                                                                                                                                                                                                                                                 |                                                                        |                | Minimum<br>content                                      | Maximum<br>content |                                                                                                                     |                            |
| 23 | Narasin/Nicarbazin (mixture of<br>(a) narasin and<br>(b) nicarbazin in a 1/1 ratio) | (a) $C_{43}H_{72}O_{11}$ (polyether of monocarboxylic acid produced by <i>Streptomyces aureofaciens</i> ).<br>In granular form<br>(b) Equimolecular complex of 1,3-bis (4-nitrophenyl)-urea and 4,6-dimethylpyrimidin-2-ol.<br>In granular form | Chickens for fattening                                                 | —              | 80                                                      | 100                | Use prohibited at least 7 days before slaughter<br>Indicate in the instructions for use:<br>'Dangerous for equines' | 30. 11. 1991               |
|    | E. Emulsifiers, stabilizers, thickeners and gelling agents                          |                                                                                                                                                                                                                                                 |                                                                        |                |                                                         |                    |                                                                                                                     |                            |
|    | F. Colouring matters including pigments                                             |                                                                                                                                                                                                                                                 |                                                                        |                |                                                         |                    |                                                                                                                     |                            |
| 20 | G. Preservatives<br>Methylpropionic acid                                            | $C_4H_8O_2$                                                                                                                                                                                                                                     | All species or categories of animals with the exception of laying hens | —              | 1 000                                                   | 4 000              | —                                                                                                                   | 30. 11. 1991               |
|    | I. Trace elements                                                                   |                                                                                                                                                                                                                                                 |                                                                        |                |                                                         |                    |                                                                                                                     |                            |
|    | J. Growth promoters                                                                 |                                                                                                                                                                                                                                                 |                                                                        |                |                                                         |                    |                                                                                                                     |                            |
|    | L. Binders, anti-caking agents and coagulants                                       |                                                                                                                                                                                                                                                 |                                                                        |                |                                                         |                    |                                                                                                                     |                            |
|    | M. Acidity regulators                                                               |                                                                                                                                                                                                                                                 |                                                                        |                |                                                         |                    |                                                                                                                     |                            |

**COMMISSION DIRECTIVE****of 19 April 1991****amending the Annexes to Council Directive 70/524/EEC concerning additives in feedingstuffs****(91/249/EEC)**

THE COMMISSION OF THE EUROPEAN COMMUNITIES,

Having regard to the Treaty establishing the European Economic Community,

Having regard to Council Directive 70/524/EEC of 23 November 1970 concerning additives in feedingstuffs <sup>(1)</sup>, as last amended by Commission Directive 91/248/EEC <sup>(2)</sup>, and in particular Article 7 thereof,

Whereas Directive 70/524/EEC provides for regular amendment of the content of its Annexes to take account of advances in scientific and technical knowledge;

Whereas a new use of the trace element 'ferrous sulphate, monohydrate' has been successfully tested in certain Member States; whereas, on the basis of experience gained it appears that this new use can be authorized throughout the Community;

Whereas too high an addition of vitamin A in feedingstuffs can have undesirable effects on quality of production animals; whereas, given this fact, it appears necessary, while waiting for the results of certain studies, to introduce maximum levels to ensure upkeep and productivity of animals during the finishing period;

Whereas the use of various additives belonging to the groups of antibiotics and binders has been successfully tested in certain Member States; whereas it is appropriate to allow provisionally these new uses at national level until their authorization on a Community level;

Whereas the measures provided for in this Directive are in accordance with the opinion of the Standing Committee on Feedingstuffs,

HAS ADOPTED THIS DIRECTIVE:

*Article 1*

The Annexes to Directive 70/524/EEC are hereby amended as set out in the Annex hereto.

*Article 2*

Member States shall, by 30 November 1991 at the latest, bring into force the laws, regulations or administrative provisions necessary to comply with Article 1. They shall inform the Commission thereof.

When Member States adopt these measures, they shall contain a reference to this Directive or shall be accompanied by such reference on the occasion of their official publication. The methods of making such a reference shall be laid down by the Member States.

*Article 3*

This Directive is addressed to the Member States.

Done at Brussels, 19 April 1991.

*For the Commission*

Ray MAC SHARRY

*Member of the Commission*

<sup>(1)</sup> OJ No L 270, 14. 12. 1970, p. 1.

<sup>(2)</sup> See page 1 of this Official Journal.

## ANNEX

## 1. In Annex I:

(a) In part H 'Vitamins, provitamins and chemically well-defined substances having a similar effect' item E 672 '1. Vitamin A' is replaced by the following:

| EEC No | Additive     | Chemical formula,<br>description | Species or category<br>of animals           | Maximum<br>age | Maximum content in iu/kg of<br>complete feedingstuff or of the<br>daily ration | Other provisions                                               |
|--------|--------------|----------------------------------|---------------------------------------------|----------------|--------------------------------------------------------------------------------|----------------------------------------------------------------|
| 'E 672 | 1. Vitamin A | —                                | Chickens for fattening                      | —              | 13 500                                                                         | All feedingstuffs except<br>feedingstuffs for young<br>animals |
|        |              |                                  | Ducks for fattening                         | —              | 13 500                                                                         |                                                                |
|        |              |                                  | Turkeys for fattening                       | —              | 13 500                                                                         |                                                                |
|        |              |                                  | Lambs for fattening                         | —              | 13 500                                                                         |                                                                |
|        |              |                                  | Pigs for fattening                          | —              | 13 500                                                                         |                                                                |
|        |              |                                  | Bovines for fattening                       | —              | 13 500                                                                         |                                                                |
|        |              |                                  | Calves                                      | —              | 25 000                                                                         | Only milk replacers                                            |
|        |              |                                  | Other species or cate-<br>gories of animals | —              | —                                                                              | All feedingstuffs'                                             |

(b) In part I 'Trace elements', under item E 1 'Iron', the wording shown in column 'Other provisions' for the additive 'ferrous sulphate, monohydrate' is replaced by the following:

| EEC No | Element | Additive | Chemical formula | Maximum content of the element in mg/kg of the complete feedingstuff | Other provisions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------|---------|----------|------------------|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        |         |          |                  |                                                                      | <p>'Permitted:</p> <p>(i) in denatured skimmed-milk powder and in compound feedingstuffs manufactured from denatured skimmed-milk powder:</p> <ul style="list-style-type: none"> <li>— subject to the mandatory provisions of Commission Regulations (EEC) No 368/77 and (EEC) No 443/77</li> <li>— declaration of the amount of iron added, expressed as the element, on the label or package or container of denatured skimmed-milk powder</li> </ul> <p>(ii) in compound feedingstuffs other than those listed under (i)'</p> |

## 2. In Annex II:

(a) In part A 'Antibiotics' the following item is added:

| No | Additive    | Chemical formula,<br>description | Species or category<br>of animal | Maximum<br>age | Minimum<br>content                |   | Maximum<br>content | Other provisions | Period of<br>authoriza-<br>tion |
|----|-------------|----------------------------------|----------------------------------|----------------|-----------------------------------|---|--------------------|------------------|---------------------------------|
|    |             |                                  |                                  |                | mg/kg of complete<br>feedingstuff |   |                    |                  |                                 |
| 29 | Efrotamycin | $C_{59}H_{88}N_{20}O_{20}$       | Piglets<br>Pigs                  | Four months    | 4                                 | 4 | 8                  | —                | 30. 11. 1991                    |
|    |             |                                  |                                  | Six months     | 4                                 | 4 | 6                  | —                | 30. 11. 1991                    |

(b) In part L 'Binders, anti-caking agents and coagulants' the following item is added:

| No | Additive                          | Chemical formula,<br>description                                                                                            | Species or category<br>of animal | Maximum<br>age | Minimum<br>content                | Maximum<br>content | Other provisions  | Period of<br>authoriza-<br>tion |
|----|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------|----------------------------------|----------------|-----------------------------------|--------------------|-------------------|---------------------------------|
|    |                                   |                                                                                                                             |                                  |                | mg/kg of complete<br>feedingstuff |                    |                   |                                 |
| 1  | Synthetic calcium alumi-<br>nates | Mixture of calcium alumi-<br>nates containing between<br>35 and 51 % of A 1203<br>maximum molybdenum<br>content of 20 mg/kg | Poultry, rabbits,<br>and pigs    | —              | —                                 | 20 000             | All feedingstuffs | 30. 11. 1991                    |