SCHEDULE 4

Regulation 14

PERMITTED ADDITIVES AND PROVISIONS RELATING TO THEIR USE

1. In this Schedule "material" means "material intended for use as a feeding stuff", and any reference to a numbered Part is a reference to the Part bearing that number in the Table in this Schedule.

2. No material shall contain any added antioxidant other than one named or described in column 2 of Part I, or any antioxidant so named or described unless, taking into account any such antioxidant which is naturally present, the maximum content (if any) specified in relation thereto in column 4 of that Part is not exceeded.

3. No material shall contain—

(a) any colourant other than one named or described in column 2 of Part II; or

(b) any colourant named or described in column 2 of Part II unless—

(i) the material is intended for an animal listed opposite the colourant in question in column 4 of that Part;

(ii) taking into account any such colourant as is naturally present, the maximum content (if any) specified in relation thereto in column 5 of that Part is not exceeded; and

(iii) the material complies with the conditions (if any) specified in relation thereto in column 6 of that Part.

4.—(1) No material shall contain any added emulsifier, stabiliser, thickener or gelling agent other than one named or described in Part III, or any emulsifier or stabiliser named or described in Chapter A of Part III unless the material is to be used in accordance with the specification, if any, laid down in respect of it in that Chapter.

(2) No material shall contain any substance named or described in column 2 of Chapter B of Part III unless—

(a) that material is intended for animals listed opposite the substance in question in column 3 of that Chapter;

(b) taking account of any such substance which is naturally present, the maximum content (if any) specified in relation thereto in column 4 of that Chapter is not exceeded; and

(c) the material complies with the conditions specified in relation thereto in column 5 of that Chapter.

5. No material shall contain any added binder, anti-caking agent or coagulant other than one named or described in Part IV, or any substance named or described in Chapter B of that Part unless—

(a) taking account of any such substance which is naturally present, the maximum content (if any) specified in relation thereto in column 4 of that Chapter is not exceeded;

(b) the material is to be used in accordance with the conditions (if anyj laid down in respect of it in column 5 of that Chapter; and

(c) the material is intended for animals listed opposite the binder, anti-caking agent or coagulant concerned, in column 3 of that Chapter.

6.—(1) Material may contain any vitamin (not being vitamin A, D_2 or D_3) or any pro-vitamin or chemically well defined substance having a similar effect.

(2) No material may contain any added vitamin A, D_2 or D_3 unless—

(a) the material is for a species of category of animal listed opposite the vitamin in question in column 3 of Part V,

(b) taking into account any such vitamin as is naturally present, the maximum content (if any) specified in relation thereto in column 4 of that Part is not exceeded; and

(c) the material complies with the conditions (if any) specified in relation thereto in column 5 of that Part.

7.—(1) No material shall contain any added trace element other than one from a source specified in columns 3 and 4 of Part VI.

(2) No material shall contain any added trace element from a source so specified in proportions which, taking account of any such trace element which is naturally present exceed, in respect of animals (if any) listed opposite the trace element in question in column 5, the maximum content specified in relation thereto in column 6 of that Part.

(3) No material shall contain any added trace element from a source so specified which does not comply with the conditions (if any) specified in respect of that source in column 7 of that Part.

8. No material shall contain—

(a) any added aromatic or appetising substance other than one named or described in column 2 of Part VII;

(b) any added aromatic or appetising substance named or described in the said column 2 which, taking account of any such substance which is naturally present, exceeds the maximum content (if any) specified in relation thereto in column 6 of Part VII; or

(c) any added aromatic or appetising substance named or described in the said column 2, unless the material is for a species or category of animal listed opposite the substance in question in column 4 of Part VII and the animal concerned is of an age no greater than that (if any) specified in column 5 of that Part.

9.—(1) No material shall contain any added preservative other than one named or described in Part VIII.

(2) No material shall contain any added preservative specified in column 2 of Chapter B of Part VIII which, taking account of any such preservative which is naturally present, exceeds, in respect of animals listed opposite the preservative in question in column 4, the maximum content specified in relation thereto in column 5; and no material shall contain any added preservative specified in column 2 of that Chapter unless the material is for a species or category of animal listed opposite the preservative in question in column 4 of that Chapter, and is used in accordance with the specifications, if any, laid down in respect of it therein.

10. Material intended for use as a pet food for dogs and cats may contain any of the acidity regulators named in Part IX.

11. No material shall contain—

(a) any added enzyme, other than one named or described in column 2 of Part X; or

(b) any added enzyme named or described in column 2 of that Part unless—

(i) the material is for a species or category of animal listed opposite the enzyme in question in column 4 of that Part, and the animal concerned is of an age no greater than that (if any) specified in column 5 of that Part;

(ii) taking into account any such enzyme which is naturally present, the content of the enzyme is not less than the minimum (if any) specified in column 6 of that Part, and does not exceed the maximum (if any) specified in column 7 of that Part; and

(iii) the material is to be used in accordance with the conditions (if any) laid down in column 8 of that Part.

12. Unless otherwise stated, any maximum or minimum specified in the Table for the content of any additive in any feeding stuff is so specified by reference to a complete feeding stuff with a moisture content of 12%.

PART 1

PERMITTED ANTIOXIDANTS

Column 1 *EECNo.*	Column 2 *Name or Description*	Column 3 *Maximum Formula*	Column 4 *Maximum content (mg/kg in complete feeding stuffs)*
E300	L-Ascorbic acid	$C_6H_8O_6$	
E301	Sodium L-ascorbate	$C_6H_7O_6Na$	
E302	Calcium Di(L-ascorbate)	$C_{12}H_{14}O_{12}Ca.2H_2O$	
E303	5,6-Diacetyl-L-ascorbic acid	$C_{10}H_{12}O_8$	
E304	6-Palmitoyl-L-ascorbic acid	$C_{22}H_{38}O_7$	
E306	Tocopherol-rich extracts of natural origin	—	
E307	Synthetic *alpha*-tocopherol	$C_{29}H_{50}O_2$	
E308	Synthetic *gamma*-tocopherol	$C_{28}H_{48}O_2$	
E309	Synthetic *delta*-tocopherol	$C_{27}H_{46}O_2$	
E310	Propyl gallate	$C_{10}H_{12}O_5$	} 100: alone or together
E311	Octyl gallate	$C_{15}H_{22}O_5$	
E312	Dodecyl gallate	$C_{19}H_{30}O_5$	
E320	Butylated hydroxyanisole (BHA)	$C_{11}H_{16}O_2$	} 150: alone or together
E321	Butylated hydroxytoluene (BHA)	$C_{15}H_{24}O$	
E324	Ethoxyquin	$C_{14}H_{19}NO$	

PART II

PERMITTED COLOURANTS

Column 1 *EEC No.*	Column 2 *Name or description*	Column 3 *Chemical formula, description*	Column 4 *Kind of animal*	Column 5 *Maximum content (mg/kg in complete feeding stuffs)*	Column 6 *Conditions*
E160c E160e E160f E161b E16lc	1. Carotenoids and xanthophylls: Capsanthin Beta-apo-8'-carotenal Ethyl ester of beta-apo 8'-carotenoic acid Lutein Cryptoxanthin	$C_{40}H_{56}O_3$ $C_{30}H_{40}O$ $C_{32}H_{44}O_2$ $C_{40}H_{56}O_2$ $C_{40}H_{55}$	} Poultry	} 80 (alone or with the other carotenoids and xanthophylls)	None
E161g	Canthaxanthin	$C_{40}H_{52})_2$	(a) Poultry (b) Salmon, trout (c) Dogs, cats and ornamental fish	(a) 80 No limit	Use permitted from the age of 6 months onwards. The mixture of canthaxanthin with astaxanthin is allowed provided that the total concentration of the mixture does not exceed 100 mg/kg in the complete feeding stuff.
E161h E161i	Zeaxanthin Citranaxanthin	$C_{40}H_{56}O_2$ $C_{33}H_{44}O$	Poultry Laying hens	} 80 (alone or with other carotenoids and xanthophylls)	None None

Column 1 *EEC No.*	Column 2 *Name or description*	Column 3 *Chemical formula, description*	Column 4 *Kind of animal*	Column 5 *Maximum content (mg/kg in complete feeding stuffs)*	Column 6 *Conditions*
E161j	Astaxanthin	$C_{40}H_{52}O_4$	(a) Salmon trout (b) Ornamental fish	(a) 100 (b) No limit	Use only permitted from the age of 6 months onwards. The mixture of astaxanthin with canthaxanthin is allowed provided that the total concentration of the mixture does not exceed 100 mg/kg in the complete feeding stuff.
					None
El02	2. Other colourants:	$C_{16}H_9N_4Na_3O_9S_2$	Ornamental fish	No limit	None
El10	Tartrazine	$C_{16}H_{10}N_2Na_2O_7S_2$			
El24	Sunset yellow FCF	$C_{20}H_{11}N_2Na_3O_{10}S_3$			
El27	Ponceau 4R	$C_{20}H_6I_4Na_2O_5H_2O$			
	Erythrosine				
El31	Patent Blue V	Calcium salt of the disulphonic acid of m-hydroxytetraethy diamino triphenylcarbinol anhydridc	(a) All species or categories of animals with the exception of dogs and cats	(a) No limit No limit	Permitted in animal feeding stuffs only in products processed from: (i) waste products of foodstuffs, (ii) denatured cereals or manioc flour, or

Column 1 *EEC No.*	Column 2 *Name or description*	Column 3 *Chemical formula, description*	Column 4 *Kind of animal*	Column 5 *Maximum content (mg/kg in complete feeding stuffs)*	Column 6 *Conditions*
			(b) Dogs and cats		(iii) other base substances denatured by means of these agents or coloured during technical preparation to ensure the necessary identification during manufacture.
El32	Indigotine	$C_{16}H_8N_2Na_2O_8S_2$	Ornamental fish	No limit	None
E141	Chlorophyll copper complex	—	Ornamental fish	No limit	None
E142	Acid Brilliant Green BS, (Lissamine Green)	Sodium salt of 4,4'-bis (dimethylamino) diphenylmethylene -2-naphtol-3,6-disulphonic acid	(a) All species or categories of animals with the exception of dogs, cats and ornamental fish (b) Dogs, cats and ornamental fish	No limit No limit	Permitted in animal feeding stuffs only in products processed from: (i) waste products of foodstuffs, (ii) denatured cereals or manioc flour, or (iii) other base substances denatured by means

Column 1 *EEC No.*	Column 2 *Name or description*	Column 3 *Chemical formula, description*	Column 4 *Kind of animal*	Column 5 *Maximum content (mg/kg in complete feeding stuffs)*	Column 6 *Conditions*
					of these agents or coloured during technical preparation to ensure the necessary identification during manufacture.
					None
E153	Carbon black	C	} Ornamenal fish	No limit	None
E160B	Bixin	$C_{25}H_{30}O_4$			
E172	Iron oxide, red	Fe_2O_3			
3. All colourants (other than Patent Blue V and Acid Brilliant Green BS) at present permitted for use in human food by European Community Directives, as implemented by Regulations made or having effect as if made under the Food Safety (Northern Ireland) Order 1991(**1**)	—		(a) All species or categories of animals with the exception of dogs and cats (b) Dogs and cats	(a) No limit No limit	Permitted in animal feeding stuffs only in products processed from: (i) waste products of, foodstuffs, or (ii) other base substances, with the exception of cereals and manioc flour, denatured by	None

(**1**) S.I. 1991/762 (N.I. 7)

Column 1 *EEC No.*	Column 2 *Name or description*	Column 3 *Chemical formula, description*	Column 4 *Kind of animal*	Column 5 *Maximum content (mg/kg in complete feeding stuffs)*	Column 6 *Conditions*
				means of these agents or coloured during technical preparation to ensure the necessary identification during manufacture.	

PART III

PERMITED EMULSIFIERS, STABILISERS, THICKENERS AND GELLING AGENTS

CHAPTER A

EEC No.	*Name or description*
E322	Lecithins
E400	Alginic acid
E401	Sodium alginate
E402	Potassium alginate
E403	Ammonium alginate — Not permitted in aquarium fish feed
E404	Calcium alginate
E405	Propylene glycol alginate (propane-1,2-diol alginate)
E406	Agar
E407	Carrageenan
E408	Furcellaran
E410	Locust bean gum (carob gum)
E411	Tamarind seed flour
E412	Guar gum (guar flour)

EEC No.	*Name or description*
E413	Tragacanth
E414	Acacia (gum arabic)
E415	Xanthan gum
E420	D-Glucitol (sorbitol)
E421	Mannitol
E422	Glycerol
E440	Pectins
E460	Microcrystalline cellulose
E460(ii)	Cellulose powder
E461	Methylcellulose
E462	Ethylcellulose
E463	Hydroxypropylcellulose
E464	Hydroxypropylmethylcellulose
E465	Ethylmethylcellulose
E466	Carboxymethylcellulose (sodium salt of carboxymethyl ether of cellulose)
E470	Sodium, potassium and calcium salts of edible fatty acids, alone or in mixtures, derived either from edible fats or distilled edible fatty acids
E471	Monoacyl and diacylglycerols (mono-and di-glycerides of fatty acids)
E472	Monoacyl and diacylglycerols esterified with the following acids: (a) acetic (b) lactic (c) citric (d) tartaric (e) monoacetyltartaric and diacetyltartaric
E473	Sucrose esters of fatty acids (esters of saccharose and edible fatty acids)
E474	Mixture of sucrose esters of monoacyl and diacylglycerols (sucroglycerides)
E475	Polyglycerol esters of non-polymerised edible fatty acids
E477	Propylene glycol esters of fatty acids (propane-1,2-diol esters of fatty acids)
E480	Stearoyl-2-lactylic acid
E481	Sodium stearoyl-2-lactylate
E482	Calcium stearoyl-2-lactylate

EEC No.	*Name or description*
E483	Stearyl tartrate
E484	Glycerol poly(ethylene glycol)ricinoleate
E486	Dextrans
E491	Sorbitan monostearate
E492	Sorbitan tristearate
E493	Sorbitan monolaurate
E494	Sorbitan mono-oleate
E495	Sorbitan monopalmitate

CHAPTER B

Column 1 *EEC No.*	Column 2 *Name or descriprion*	Column 3 *Kind of animal*	Column 4 *Maximum content (mg/ kg in complete feeding stuffs)*	Column 5 *Conditions*
E418	Gellan Gum (Polytetrasaccharide containing glucose, glucuronic acid and rhamnose (2: 1: 1) produced by *Pseudomonas elodea* (ATCC3 1466))	Dogs, Cats	No limit .	Canned feeding stuffs only
E432 E433	Polyoxyethylene (20) sorbitan monolaurate	} All species of animals	} 5000 (alone or with ather Polysorbates)	}Milk replacer feeds only
E434 E435	Polyoxyethylene (20) sorbitan mono-oleate			
E436	Polyoxyethylene (20) sorbitan monopalmitate			
	Polyoxyethylene (20) sorbitan monostearate			
	Polyoxyethylene (20) sorbitan tristearate			

Column 1 *EEC No.*	Column 2 *Name or descriprion*	Column 3 *Kind of animal*	Column 4 *Maximum content (mg/ kg in complete feeding stuffs)*	Column 5 *Conditions*
E45Ob(i)	*penra* Sodium triphosphate	Dogs, Cats	5000	All feeding stuffs
E487	Polyethyleneglycol esters of fatty acids from soya oil	Calves	6000	Milk replacer feeds only
E488	Polyoxyethylated glycerides of tallow fatty acids	Calves	5000	Milk replacer feeds only
E489	Ethers of polyglycerol and of alcohols obtained by the reduction of oleic and palmitic acids	Calves	5000	Milk replacer feeds only
E490	Propane-1, 2-diol	Dairy cows	12000	} All feeding stuffs
		Calves	36000	
		Cattle for fattening	300	
		Lambs		
		Kids		
		Swine		
		Poultry		
E496	Poly(ethylene glycol) 6000	} All species of animals	300	} All feeding stuffs
E497	Polyoxypropylene — polyoxyethylene polymers (M.W. 6800-9000)		50	
E498	Partial polyglycerol esters of polycondensed fatty acids of castor oil (polyglycerol polyricinoleate)	Dogs	No limit	All feeding stuffs

Column 1 *EEC No.*	Column 2 *Name or descriprion*	Column 3 *Kind of animal*	Column 4 *Maximum content (mg/ kg in complete feeding stuffs)*	Column 5 *Conditions*
E499	Cassia Gum	Dogs, Cats	17600	Canned feeding stuffs only

PART IV

PERMITTED BINDERS, ANTI-CAKING AGENTS AND COAGULANTS

CHAPTER A

EEC No.	*Name or description*	*Chemical formula*
E330	Citric acid	$C_6H_8O_7$
E470	Sodium, potassium and calcium stearates	$C_{18}H_{35}O_2Na$ $C_{18}H_{35}O_2K$ and $C_{36}H_{70}O_4Ca$
E551a	Silicic acid (precipitated and dried)	—
E551b	Colloidal silica	—
E551c	Kieselguhr (diatomaceous earth, purified)	—
E552	Calcium silicate (synthetic)	—
E554	Sodium aluminosilicate (synthetic)	—
E559	Kaolin and kaolinitic clays free of asbestos (naturally occurring mixtures of minerals containing at least 65% complex hydrated aluminium silicates whose main constituent is kaolinite)	—
E560	Natural mixtures of steatite and chlorite free of asbestos (min. purity of the mixture: 85%)	—
E561	Vermiculite (hydrated silicate of magnesium, aluminium and iron, expanded by heating, free of asbestos:—max. fluorine content — 0.3%)	—
E565	Lignosulphonates	—

CHAPTER B

Column 1 *EEC No.*	Column 2 *Name or description*	Column 3 *Kind of animal*	Column 4 *Maximum content (mg/kg in complete feeding stuffs)*	Column 5 *Conditions*
E558	Bentonite and montmorillonite	All species of animals	20000	All feeding stuffs (mixing of antibiotic growth promoters and coccidiostats with feeding stuffs and ingredients in the presence of these additives is prohibited except for tylosin, monensin sodium, narasin, ipronidazole, lasalocid sodium, avoparcin, flavophospholipol, salinomycin sodium, ronidazole and virginiamycin, nicarbazin, robenidine and maduramicin ammonium)
E516	Calcium sulphate dihydrate	All species of animals	30000	All feeding stuffs
E599	Perlite	All species of animals	No limit	All feeding stuffs
E562	Sepiolite Hydrated magnesium silicate of sedimentary origin, containing at least 60% sepiolite and maximum 30% montmorillonite. Asbestos free.	All species of animals	20000	All feeding stuffs
E563	Sepiolitic clay	All species	20000	All feeding stuffs

Column 1 *EEC No.*	Column 2 *Name or description*	Column 3 *Kind of animal*	Column 4 *Maximum content (mg/kg in complete feeding stuffs)*	Column 5 *Conditions*
	Hydrated magnesium silicate of sedimentary origin, containing at least 40% sepiolite and 25% illite. Asbestos free.			
E598	Synthetic calcium aluminates.	Poultry, rabbits and pigs	20000	All feeding stuffs
	Mixture of calcium aluminates containing between 35% and 51% of $A1_2O_3$ maximum molybdenum content of 20 mg/kg Natrolite—phonolite (Natural mixture of aluminium silicates, alkalines and alkaline — earth and aluminium hydrosilicates, natrolite (43%-46%) and feldspar)	Dairy cows, cattle for fattening	8000	All feeding stuffs
		Calves, lambs and kids	25000	All feeding stuffs
		All species of animals		

PART V

VITAMINS, PRO-VITAMINS AND SUBSTANCES HAVING A SIMILAR EFFECT

Column 1 *EEC No.*	Column 2 *Vitamin*	Column 3 *Kind of animal*	Column 4 *Maximum content (international units per kilogram in complete feeding stufSs) or of the daily ration*	Column 5 *Conditions*
E672	A	Chickens for fattening		
		Ducks for fattening		
		Turkeys for fattening		
		Lambs for fattening		
		Pigs for fattening		
		Bovines for fattening		
13500			} All feeding stuffs except feeding stuffs for young animals	
13500				
13500				
13500				
13500				
13500				
		Calves for fattening		
25000			Only milk replacers	
		Other species of animals		

—			All feeding stuffs		
E670 or	D2	Pigs	Cattle	2000	} Simultaneous use of Vitamin D_2 and D_3 prohibited
		Piglets	Calves	10000 in milk peplacer feeds only	
			Sheep		
			Lambs	4000	
			Horses	10000 in milk replacer feeds only	
			Other species of animals except poultry and fish	4000	
				10000 in milk replacer feeds only	
				4000	
				2000	
E671	D3	Pigs	2000	} Simultaneous use of Vitamin D_2 and D_3 prohibited	
		Piglets	10000 in milk replacer feeds only		
		Cattle			
		Calves	1000		
		Sheep	10000 in milk replacer feeds only		
		Lambs			
		Horses	4000		
		Chickens for fattening	10000 in milk replacer feeds only		
		Turkeys			
			4000		
		Other poultry			
			5000		
		Fish			
			5000		
		Other species of animals	3000		
			3000		

2000

PART VI

TRACE ELEMENTS

Column 1 *EEC No.*	Column 2 *Element*	Column 3 *Name of additive*	Column 4 *Chemical formula*	Column 5 *Kind of animal*	Column 6 *Maximum content of the element mg/kg in complete feeding stuffs*	Column 7 *Conditions*
E1	Iron-Fe	Ferrous carbonate	$FeCO_3$	} All animals	1250 (total)	—
		Ferrous chloride, tetrahydrate	$FeCl_24H_2O$			—
			$FeC1_36H_2O$			—
		Ferric chloride, hexahydrate	$Fe_3(C_6H_5O_7)_26H_2O$			—
			$FeC_4H_2O_4$			—
		Ferrous citrate, hexahydrate	$Fe(C_3H_5O_3)_2.3H_2O$			—
			Fe_2O_3			—
		Ferrous fumarate	$FeS0_4.H_2O$			Permitted: (i) in denatured skimmed milk powder and in compound feeding stuffs manufactured from denatured powder — subject to the mandatory provisions of E Commission
		Ferrous lactate, trihydrate				
		Ferric oxide				
		Ferrous sulphate, monohydrate				

Column 1 *EEC No.*	Column 2 *Element*	Column 3 *Name of additive*	Column 4 *Chemical formula*	Column 5 *Kind of animal*	Column 6 *Maximum content of the element mg/kg in complete feeding stuffs*	Column 7 *Conditions*
						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 5 skimmed milk a' powder.
						(ii) in compound feeding stuffs other than those listed under (i).

Column 1 *EEC No.*	Column 2 *Element*	Column 3 *Name of additive*	Column 4 *Chemical formula*	Column 5 *Kind of animal*	Column 6 *Maximum content of the element mg/kg in complete feeding stuffs*	Column 7 *Conditions*
Ferrous sulphate, heptahydrate	$FeS0_4.7H_2O$	All animals	1250 (total)	Permitted: (i) in denatured skimmed milk and in compound feeding stuffs manufactured from denatured skimmed milk powder: — subject to the mandatory & 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		

Column 1 *EEC No.*	Column 2 *Element*	Column 3 *Name of additive*	Column 4 *Chemical formula*	Column 5 *Kind of animal*	Column 6 *Maximum content of the element mg/kg in complete feeding stuffs*	Column 7 *Conditions*
					or package or container of denatured skimmed milk powder.	
				(ii) in compound 5 feeding stuffs other than those listed under (i).		
		Ferrous Chelate of Amino Acids hydrate	Fe(x) 1-3.nH_2O (where x equals an anion of any amino acid derived from hydrolysed Soya Protein) Molecular weight not exceeding 1.500	} All animals	—	—
E2	Iodine-I	Calcium iodate, hexahydrate	$Ca(IO_3)_2.6H_2O$	} equines; other species of animals	4 (total);	—
			$Ca(IO_3)_2$		40 (total)	—
		Calcium iodate, anhydrous	NaI			—
			KI			—

Column 1 *EEC No.*	Column 2 *Element*	Column 3 *Name of additive*	Column 4 *Chemical formula*	Column 5 *Kind of animal*	Column 6 *Maximum content of the element mg/kg in complete feeding stuffs*	Column 7 *Conditions*
		Sodium iodide				
		Potassium iodide				
E3	Cobalt-Co	Cobaltous acetate, tetrahydrate	$Co(CH_3COO)_2.4H_2O$	Pigs for fattening: — over six month Breeding pigs: Calves: <— milk replacers animals	10 (total)	—
			$2CoCO_3.3Co(OH)_2.H_2O$			—
		Basic cobaltous carbonate, monohydrate	$CoCl_2.6H_2O$			—
			$CoSO_4.7H_2O$			—
		Cobaltous chloride, hexahydrate	$CoSO_4.H_2O$			—
			$Co(NO_3)_2.6H_2O$			—
		Cobaltous sulphate, heptahydrate				
		Cobaltous sulphate, monohydrate				
		Cobaltous nitrate, hexahydrate				
E4	Copper-Cu	Cupric acetate, monohydrate	$Cu(CH_3COO)_2.H_2O$		35 (total)	—
			$CuCO_3CU(OH)_2.H_2O$		35 (total)	—
		Basic cupric carbonate, monohydrate	$CuCl_2.H_2O$		30 (total)	—
			$Cu(C_3H_{10}NO_2S)_2$		50 (total)	—
		Cupric chloride, dihydrate	CuO		15 (total)	—
			$CuSO_4.5H_2O$		35 (total)	—
		Cupric methionate				—

Column 1 *EEC No.*	Column 2 *Element*	Column 3 *Name of additive*	Column 4 *Chemical formula*	Column 5 *Kind of animal*	Column 6 *Maximum content of the element mg/kg in complete feeding stuffs*	Column 7 *Conditions*
		Cupric oxide Cupric sulphate, pentahydrate		— other complete feeding stuffs: Ovines: Other species of animals:		
		Cupric sulphate, monohydrate	$CuS0_4.H_2O$	Pigs for fattening: — over six months	35 (total)	Denatured skimmed milk powder and compound feeding stuffs manufactured from denatured s skimmed milk powder:
		Cupric sulphate, pentahydrate	$CuSO_4.5H_2O$	} Breeding pigs: Ovines: Other species of animals with the exception of calves:	35 (total) 15 (total) 35 (total)	— Subject to the relevant provisions of Commission Regulations (EEC) No. 368/77 and (EEC) No. 443/77. — Declaration of the amount of copper added, expressed as the element

Column 1 *EEC No.*	Column 2 *Element*	Column 3 *Name of additive*	Column 4 *Chemical formula*	Column 5 *Kind of animal*	Column 6 *Maximum content of the element mg/kg in complete feeding stuffs*	Column 7 *Conditions*
						on the label or package or the container of denatured skimmed milk powder.
E5	Manganese-Mn	Manganous carbonate	$MnCO_3$	} All animals	250 (total)	—
		Manganous chloride, tetrahydrate	$MnCl_2.4H_2O$			—
		Manganous hydrogen phosphate, trihydrate	$MnHPO_4.3H_2O$			—
		Manganous oxide	MnO			—
		Manganic oxide	Mn_2O_3			—
		Manganous sulphate, tetrahydrate	$MnSO_4.4H_2O$			—
		Manganous sulphate, monohydrate	$MnSO_4.H_2O$			—
E6	Zinc-Zn	Zinc lactate, trihydrate	$Zn(C_3H_5O_3)_2.3H_2O$	} All animals	250 (total)	—
		Zinc acetate, dihydrate	$Zn(CH_3COO)_2.2H_2O$			—
		Zinc carbonate	$ZnCO_3$			—
			$ZnCl_2.H_2O$			—
			ZnO			Maximum content of

Column 1 *EEC No.*	Column 2 *Element*	Column 3 *Name of additive*	Column 4 *Chemical formula*	Column 5 *Kind of animal*	Column 6 *Maximum content of the element mg/kg in complete feeding stuffs*	Column 7 *Conditions*
		Zinc chloride, monohydrate Zinc oxide Zinc sulphate, heptahydrate Zinc sulphate, monohydrate	$ZnSO_4.7H_2O$ $ZnSO_4.H_2O$			lead 600 mg/kg — —
E7	Molybdenum-Mo	Ammonium molybdate Sodium molybdate	$(NH_4)_6Mo_7O_{24}.4H_2O$ $Na_2MoO_4.2H_2O$	} All animals	2.5 (total)	—
E8	Selenium-Se	Sodium selenite Sodium selenate	Na_2SeO_3 Na_2SeO_4	} All animals	0.5 (total)	—

PART VII

AROMATIC AND APPETISING SUBSTANCES

Column 1 *EEC No.*	Column 2 *Additives*	Column 3 *Chemical formula*	Column 4 *Species or category of animal*	Column 5 *Maximum age*	Column 6 *Maximum content mg/kg of complete feeding stuff*
1. All natural products and corresponding synthetic products	—	All animals	—	—	

Column 1 *EEC No.*	Column 2 *Additives*	Column 3 *Chemical formula*	Column 4 *Species or category of animal*	Column 5 *Maximum age*	Column 6 *Maximum content mg/kg of complete feeding stuff*
2. Artificial substances:					
E954(i)	Saccharin	$C_7H_5NO_3S$	Piglets	Four months	150
E954(ii)	Calcium saccharin	$C_{14}H_8CaN_2O_6S_2$	Piglets	Four months	150
E954(iii)	Sodium saccharin	$C_7H_4NNaO_3S$	Piglets	Four months	150
E959	Neohesperidine dihydrochalcone	$C_{28}H_{36}O_{15}$	Piglets	Four months	35
			Dogs	—	35
			Calves	—	30
			Ovines	—	30

PART VIII

PERMITTED PRESERVATIVES

CHAPTER A

Column 1 *EEC No.*	Column 2 *Name or description*	Column 3 *Chemical formula*
E200	Sorbic acid	$C_6H_8O_2$
E201	Sodium sorbate	$C_6H_7O_2Na$
E202	Potassium sorbate	$C_6H_7O_2K$
E203	Calcium sorbate	$C_{12}H_{14}O_4Ca$
E236	Formic acid	CH_2O_2
E237	Sodium formate	CHO_2Na
E238	Calcium formate	$C_2H_2O_4Ca$
E260	Acetic acid	$C_2H_4O_2$
E261	Potassium acetate	$C_2H_3O_2K$
E262	Sodium diacetate	$C_4H_7O_4Na$
E263	Calcium acetate	$C_4H_6O_4Ca$
E270	Lactic acid	$C_3H_6O_3$

Column 1 *EEC No.*	Column 2 *Name or description*	Column 3 *Chemical formula*
E280	Propionic acid	$C_3H_6O_2$
E281	Sodium propionate	$C_3H_5O_2Na$
E282	Calcium propionate	$C_6H_{10}O_4Ca$
E283	Potassium propionate	$C_3H_5O_2K$
E284	Ammonium propionate	$C_3H_9O_2N$
E295	Ammonium formate	CH_5O_2N
E296	DL-Malic acid	$C_4H_6O_5$
E297	Fumaric acid	$C_4H_4O_4$
E325	Sodium lactate	$C_3H_5O_3Na$
E326	Potassium lactate	$C_3H_5O_3K$
E327	Calcium lactate	$C_6H_{10}O_6Ca$
E330	Citric acid	$C_6H_8O_7$
E331	Sodium citrates	—
E332	Potassium citrates	—
E333	Calcium citrates	—
E334	L-Tartaric acid	$C_4H_6O_6$
E335	Sodium L-tartrates	—
E336	Potassium L-tartrates	—
E337	Potassium sodium L-tartrate	$C_4H_4O_6KNa.4H_2O$
E338	Orthophosphoric acid	H_3PO_4
E507	Hydrochloric acid for use in silage only	HCl
E513	Sulphuric acid for use in silage only	H_2SO_4

CHAPTER B

Column 1 *EEC No.*	Column 2 *Name or description*	Column 3 *Chemical formula*	Column 4 *Kind of animal*	Column 5 *Maximum content (mg/kg in complete feeding stuff)*	Column 6 *Minimum content (mg/kg in complete feeding stuff)*
E222	Sodium hydrogensulphite (sodium bisulphite) —	$NaHSO_3$	Dogs and Cats	500 alone or together expressed as SO_2	

Column 1 *EEC No.*	Column 2 *Name or description*	Column 3 *Chemical formula*	Column 4 *Kind of animal*	Column 5 *Maximum content (mg/kg in complete feeding stuff)*	Column 6 *Minimum content (mg/kg in complete feeding stuff)*
	Not permitted in unprocessed meat and fish				
E223	diSodium disulphite (sodium metabisulphite) — **Not permitted in unprocessed meat and fish**	$Na_2S_2O_5$	Dogs and Cats	500 alone or together expressed as SO_2	
E250	Sodium nitrite	$NaNO_2$	Dogs and Cats	100 (canned feeding stuffs only)	
E214	Ethyl 4-hydroxybenzoate	$C_9H_{10}O_3$	Pet animals	No limit	
E215	Sodium ethyl 4-hydroxybenzoate	$C_9H_9O_3Na$	Pet animals	No limit	
E216	Propyl 4-hydroxybenzoate	$C_{10}H_{12}O_3$	Pet animals	No limit	
E217	Sodium propyl 4-hydroxybenzoate	$C_{10}H_{11}O_3Na$	Pet animals	No limit	
E218	Methyl 4-hydroxybenzoate	$C_8H_8O_3$	Pet animals	No limit	
E219	Sodium methyl 4-hydroxybenzoate	$C_8H_7O_3Na$	Pet animals	No limit	
E490	Propane-l, 2-diol	$C_3H_8O_2$	Dogs	53000	
E240	Formaldehyde	CH_2O	All species of animals	No limit (for silage only	
			Pigs up to the age of six months	600 (skimmed milk only)	
E285	Methylpropionic acid	$C_4H_8O_2$	Ruminants at the beginning of rumination	4000	1000

PART IX

PERMITTED ACIDITY REGULATORS FOR PET FOODS FOR DOGS AND CATS

Column 1 *EEC No.*	Column 2 *Additive*
E170	Calcium carbonate
E296	DL-and L-Malic acid
—	Ammonium dihydrogen orthophosphate
—	*di* Ammonium hydrogen orthophosphate
E339(i)	Sodium dihydrogen orthophosphate
E339(ii)	*di* sodium dihydrogen orthophosphate
E339(iii)	*tri* sodium orthophosphate
E340(i)	Potassium dihydrogen orthophosphate
E340(ii)	*di* potassium hydrogen orthophosphate
E340(iii)	*tri* potassium orthophosphate
E341(i)	Calcium tetrahydrogen diorthophosphate
E341(ii)	Calcium hydrogen orthophosphate
E350(i)	Sodium malate (Salt of DL-or L-Malic acid)
E450(a)(i)	*di* Sodium dihydrogen diphosphate
E450(a)(iii)	*terra* sodium diphosphate
E450(a)(iv)	*tetra* Potassium diphosphate
E450(b)(i)	*penta* sodium triphosphate
E450(b)(ii)	*penta* Potassium triphosphate
E500(i)	Sodium carbonate
E500(ii)	Sodium hydrogen carbonate
E500(iii)	Sodium sesquicarbonate
E501(ii)	Potassium hydrogen carbonate
E503(i)	Ammonium carbonate
E503(ii)	Ammonium hydrogen carbonate
E507	Hydrochloric acid
E510	Ammonium chloride
E513	Sulphuric acid
E524	Sodium hydroxide
E525	Potassium hydroxide
E526	Calcium hydroxide

Column 1 *EEC No.*	Column 2 *Additive*
E529	Calcium oxide
E540	*di* calcium diphosphate

PART X

PERMITTED ENZYMES

Column 1 *EEC. No.*	Column 2 *Name or description*	Column 3 *Chemical formula, description*	Column 4 *Kind of animal*	Column 5 *Maximum age*	Column 6 *Minimum activity* *Units of activity per kg of complete feeding stuffs*	Column 7 *Maximum activity*	Column 8 *Conditions*
3-phytase (EC 3.1.3.8)	Preparation of 3-phytase produced by *Aspergillus niger* (CBS 114.94) having a minimum phytase activity of 5000 FTU/g for solid and liquid preparations	Pigs (all categories of animals) Chickens (all categories of animals)	— —	— —	— —	— —	