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 STATUTORY INSTRUMENTS
 

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1979 No. 1617

## AGRICULTURE

**The Fertilisers and Feeding Stuffs (Amendment)  
Regulations 1979**

*Made - - - - - 6th December 1979*  
*Laid before Parliament 14th December 1979*  
*Coming into Operation 4th January 1980*

The Minister of Agriculture, Fisheries and Food, the Secretary of State for Scotland and the Secretary of State for Wales, acting jointly, in exercise of the powers conferred by sections 66(1), 68(1), 69(1), 74A and 84 of the Agriculture Act 1970(a) and now vested in them(b) and of all other powers enabling them in that behalf, hereby make the following regulations after consultation with such persons or organisations as appear to them to represent the interests concerned:—

*Citation, commencement and interpretation*

1.—(1) These regulations may be cited as the Fertilisers and Feeding Stuffs (Amendment) Regulations 1979, and shall come into operation on 4th January 1980.

(2) In these regulations, unless the context otherwise requires—

“the principal regulations” means the Fertilisers and Feeding Stuffs Regulations 1973(c).

*Amendment of the Principal Regulations*

2. For Schedule 3 to the principal regulations there shall be substituted the provisions of the Schedule to these regulations.

In Witness whereof the Official Seal of the Minister of Agriculture, Fisheries and Food is hereunto affixed on 4th December 1979.

(L.S.)

*Peter Walker,*  
 Minister of Agriculture, Fisheries and Food.

*George Younger,*  
 Secretary of State for Scotland.

5th December 1979.

*Nicholas Edwards,*  
 Secretary of State for Wales.

6th December 1979.

(a) 1970 c. 40; section 74A was inserted by the European Communities Act 1972 (c. 68), section 4(1) and Schedule 4, paragraph 6.

(b) In the case of the Secretary of State for Wales by virtue of S.I. 1978/272.

(c) S.I. 1973/1521, amended by S.I. 1976/840, 1977/115.

*Regulation 2*

## SCHEDULE

PROVISIONS TO BE SUBSTITUTED FOR SCHEDULE 3  
TO THE PRINCIPAL REGULATIONS

## “SCHEDULE 3

PERMITTED ADDITIVES AND PROVISIONS RELATING TO THEIR USE AND MARKING  
(Section 74A and Regulation 7)

## 1. In this Schedule, in Schedule 2 Part II and in regulation 7—

“antioxidant” means any substance which delays, retards or prevents the development in a feeding stuff of rancidity or other deterioration arising from oxidation;

“binder” means any non-nutritional substance which aids the compaction of feeding stuffs;

“colourant” means any substance, other than a basic feed ingredient, which is added to a feeding stuff only to impart colour to the feeding stuff or to an animal product, but does not include a substance which is added to material only for the purpose of rendering that material fit only for animal feeding;

“daily ration” means the total quantity of feeding stuffs, expressed on a 12 per cent moisture basis, necessary on average per day for an animal of a given kind, age group and level of production in order to satisfy its nutritional needs;

“emulsifier” means any substance, other than a basic feed ingredient, which aids the formation of the uniform dispersion of two or more immiscible substances;

“preservative” means any substance which delays, retards or prevents the development in a feeding stuff of rancidity or other deterioration arising from microbial activity but excludes any antioxidant, colourant, emulsifier, stabiliser or binder permitted under these regulations;

“stabiliser” means any substance, other than a basic feed ingredient, which maintains the uniform dispersion of two or more immiscible substances;

“whole feeding stuff” means a mixture of feeding stuffs which, by reason of its composition, is sufficient to ensure a daily ration.

## 2. Subject to the following provisions of this Schedule, no material intended for use as a feeding stuff shall contain—

(a) any added antioxidant other than an antioxidant of a name or description specified in Part I of the table below nor any added antioxidant of a name or description so specified in proportions which, taking account of any such antioxidant which is naturally present, exceed those specified in the second column thereof;

(b) any added colourant other than a colourant of a name specified in Part II of the table below nor in the case of material intended for use as a feeding stuff for poultry any added colourant of a name specified in Chapter A of the said Part II in proportions which, taking account of any such colourant which is naturally present, exceed 80 milligrams per kilogram in whole feeding stuffs either separately or in combination with other colourants so specified;

(c) any added emulsifier, stabiliser or binder other than an emulsifier, stabiliser or binder of a name or description specified in Part III of the table below, nor shall it contain any added emulsifier, stabiliser or binder of a name or description so specified in proportions which, taking account of any substance which is naturally present, exceed those proportions specified in relation to the kind of animal and feeding stuff referred to in Chapter B of the said Part III;

- (d) any added vitamin D<sub>2</sub> or vitamin D<sub>3</sub> save that material intended for use as a feeding stuff for any animal of a kind specified in the second column of—
- (i) Chapter A of Part IV of the table below may contain vitamin D<sub>2</sub> or D<sub>3</sub> (but not both added vitamin D<sub>2</sub> and vitamin D<sub>3</sub>) in proportions which, taking account of any such vitamin which is naturally present, do not exceed those specified in the third column thereof in relation to the kind of animal;
  - (ii) Chapter B of the said Part IV may contain vitamin D<sub>3</sub> in proportions which, taking account of any vitamin D<sub>3</sub> which is naturally present, do not exceed those specified in the third column thereof in relation to the kind of animal;
- (e) any added substance of a description specified in the first column of Part V of the table below in proportions which, taking account of any such substance which is naturally present, exceed those specified in relation thereto in the second column of the table;
- (f) any added copper (Cu) save that material intended for use as a feeding stuff—
- (i) for pigs may contain copper (whether naturally present or added) in proportions not exceeding 100 milligrams per kilogram in whole feeding stuffs;
  - (ii) for any kind of animal other than pigs or sheep may contain copper (whether naturally present or added) in proportions not exceeding 50 milligrams per kilogram in whole feeding stuffs;
- (g) any added non-protein nitrogenous compound save that material intended for use as a feeding stuff for the following kinds of ruminant animals namely, bulls, cows, steers, heifers, calves, sheep or goats may contain the non-protein nitrogenous compounds specified in Part VI of the table below;
- (h) any added preservative other than a preservative of a name or description specified in Part VII of the table below; nor must certain preservatives be used other than as specified in the said Part VII.

3. If the material is intended for mixing with other materials before use as a feeding stuff and it contains an added substance mentioned in Parts I-V of the table below or added copper in proportions which, taking account of any such substance or copper which is naturally present, do not exceed in each case 5 times the maximum content specified in relation to the substance in paragraph 2 above or in the table below, that material may be imported into Great Britain or sold or possessed with a view to sale for use as a feeding stuff if it is marked in a manner specified in regulation 10 with the following statement "Feeding Stuffs Regulations. This feeding stuff may only be used for (X) up to a quantity of (Y) grams per kilogram of the whole feeding stuff." The statement shall be completed by inserting at (X) the kind and, if appropriate, the age group of the animal for which the material is intended and at (Y) by inserting such a figure that if the statement is put into effect, the material used as a feeding stuff will comply with the preceding provisions of this Schedule. In this statement there may be substituted for the words "grams per kilogram" the symbol "%", "lb per cwt" or "lb per ton", "grams per litre" or "grams per tonne".

4. If the material, not being material to which paragraph 5 of this Schedule applies, contains an added substance mentioned in Parts I-V of the table below or added copper in proportions which, taking account of any such substance or copper which is naturally present, exceed in each case 5 times the maximum permitted content specified in relation to the substance in paragraph 2 above or in the table below, that material may be imported into Great Britain, sold or possessed with a view to sale for use as a feeding stuff if it is marked in a manner specified in regulation 10 with the statement required by paragraph 3 above in respect of material to which that paragraph applies and with a statement to the effect that the material is not for direct feeding to animals and that accurate mixing is essential.

5.—(1) If the nature of the material intended for use as a feeding stuff or the means by which it is to be fed to the animal is such that the animal can consume no more of the material than is represented by a proportion of its normal daily consumption of feeding stuffs—

- (a) each statement of maximum content in paragraph 2(b) and (f) of this Schedule and Parts I, III, IV and V of the table below may be read as if that content had been divided by that proportion;
- (b) the material shall be marked in a manner specified in regulation 10 with instructions as to the kind and age group of animals for which it is intended.

(2) If material to which sub-paragraph (1) of this paragraph applies is also suitable for mixing with other materials before use as a feeding stuff, sub-paragraph (1)(b) above shall not apply to that material but that material may be imported into Great Britain, sold or possessed with a view to sale for use as a feeding stuff if it is marked in a manner specified in regulation 10 with the statement required by paragraph 3 of this Schedule in respect of material to which that paragraph applies and with a statement to the effect that accurate mixing is essential.

6. If material containing any added iron, iodine, cobalt, manganese, zinc, vitamins (other than vitamins A, D or E) or pro-vitamins in conformity with the provisions of this Schedule is marked with a statement, additional to the statutory statement required by section 68 or 69, containing the name and a statement of the total amount present (whether naturally present or added) of any iron, iodine, cobalt, manganese, zinc, vitamins (other than vitamins A, D or E) or pro-vitamins respectively, it shall be marked in a manner specified in regulation 10.

## TABLE

## PART I

## PERMITTED ANTIOXIDANTS

Name or Description	Maximum content (mg/kg in whole feeding stuff)
L-Ascorbic acid	
Sodium L-ascorbate	
Calcium L-ascorbate	
5,6-diacetyl-L-ascorbic acid	
6-palmityl-L-ascorbic acid	
Tocopherol-rich extracts of natural origin	
Synthetic alpha-tocopherol	
Synthetic gamma-tocopherol	
Synthetic delta-tocopherol	
Octyl gallate	} 100: alone or together
Dodecyl gallate	
Propyl gallate	
Butylated hydroxyanisole (BHA)	} 150: alone or together
Butylated hydroxytoluene (BHT)	
Ethoxyquin	

## PART II

## PERMITTED COLOURANTS

*Chapter A*

Capsanthen  
Lycopene  
Beta-8'-apo-carotenal  
Ethyl ester of beta-8'-apo-carotenoic acid  
Lutein  
Cryptoxanthin  
Violaxanthin  
Canthaxanthin  
Zeaxanthin

*Chapter B*

Patent Blue V  
Curcumin  
Amaranth  
Tartrazine  
Green S  
Indigo carmine  
Brilliant Black (Black PN)  
Carmoisine  
Ponceau 4R  
Sunset Yellow FCF  
Brown FK

## PART III

## PERMITTED EMULSIFIERS, STABILISERS AND BINDERS

## CHAPTER A

*Name or Description*

Lecithins  
Alginic acid  
Sodium alginate  
Potassium alginate  
Ammonium alginate  
Calcium alginate  
Propylene glycol alginate (propane-1,2-diol alginate)  
Agar  
Carrageenan (carrageen)  
Furcelleran (furcellaran)  
Locust bean gum (carob gum)  
Tamarind seed flour  
Guar gum (guar flour)  
Tragacanth  
Acacia (arabic gum)  
Sorbitol  
Mannitol  
Glycerol  
Pectins  
Microcrystalline cellulose

Methylcellulose  
Ethylcellulose  
Hydroxypropylcellulose  
Hydroxypropylmethylcellulose  
Methylethylcellulose  
Carboxymethylcellulose (sodium salt of carboxymethyl-cellulose)  
Sodium, potassium and calcium salts of edible fatty acids alone or in mixtures,  
derived either from edible fats or distilled edible fatty acids  
Mono- and di-glycerides of fatty acids  
Mono- and di-glycerides of food fatty acids esterified with the following acids:  
    (a) acetic  
    (b) lactic  
    (c) citric  
    (d) tartaric  
    (e) mono-acetyltartaric and di-acetyltartaric  
Sucroesters (esters of sucrose and edible fatty acids)  
Sucroglycerides (mixture of esters of sucrose and mono- and di-glycerides of edible  
fatty acids)  
Polyglycerol esters of non-polymerised edible fatty acids  
Mono-esters of propylene glycol (propane-1,2-diol) and edible fatty acids, alone or  
in mixture with diesters  
Stearoyl-2-lactylic acid  
Sodium stearoyl-2-lactylate  
Calcium stearoyl-2-lactylate  
Stearyl tartrate  
Polyethylene glycol esters  
Glycerine polyethylene-glycol ricinoleate  
Sorbitan monolaurate  
Sorbitan monopalmitate  
Sorbitan monostearate  
Sorbitan tristearate  
Sorbitan mono-oleate  
Polyoxyethylene (20) sorbitan monolaurate  
Polyoxyethylene (20) sorbitan monopalmitate  
Polyoxyethylene (20) sorbitan monostearate  
Polyoxyethylene (20) sorbitan tristearate  
Polyoxyethylene (20) sorbitan mono-oleate  
Polyoxyethylene (8) stearate  
Polyoxyethylene (40) stearate  
Lignosulphonates  
Silica  
Silicic acid  
Silicates  
Dextrans  
Kaolin  
Bentonite and other montmorillonite clays  
Vermiculite  
Sodium hexametaphosphate  
Disodium ethylenediamine tetra-acetate  
Citric acid  
Xanthan gum

## CHAPTER B

Name or Description	Kind of Animal	Maximum content (mg/kg in whole feeding stuff)
Polyethyleneglycol ester of fatty acids from soya oil	Calves	6000 in milk replacer feeds only
Polyoxyethylated glyceride of tallow fatty acids	Calves	5000 in milk replacer feeds only
Ether of polyglycerol and of alcohols obtained by the reduction of oleic and palmitic acids	Calves	5000 in milk replacer feeds only
Propane-1,2-diol	Dairy cows	12000
	Cattle for fattening	36000
	Lambs	
	Kids	
	Swine	
Poultry		

In this part of the table "milk replacer feed" means a manufactured feed used as a substitute for natural milk.



PART IV  
VITAMINS D

Vitamin	Kind of Animal	Maximum content (international units per kilogram in whole feeding stuff)
	<i>Chapter A</i>	
	Pigs	2000
	Piglets	10000 in milk replacer feeds only.
Vitamin D <sub>2</sub>	Cattle	4000
or	Calves	10000 in milk replacer feeds only.
	Sheep	4000
Vitamin D <sub>3</sub>	Lambs	10000 in milk replacer feeds only.
	Horses	4000
	Other kinds except poultry	2000
	<i>Chapter B</i>	
Vitamin D <sub>3</sub>	Chickens for fattening, turkeys	5000
	Other poultry	3000

In this part of this table "milk replacer feed" means a manufactured feed used as a substitute for natural milk.

PART V  
TRACE ELEMENTS

Element	Maximum content (mg/kg in whole feeding stuff)
Iron-Fe	1250
Iodine-I	40
Cobalt-Co	10
Manganese-Mn	250
Zinc-Zn	250
Molybdenum-Mo	2.5
Selenium-Se	0.5

PART VI  
NON-PROTEIN NITROGENOUS COMPOUNDS

Substance	Empirical Formulae
Biuret	$C_2H_5O_2N_3$
Isobutylidene diurea	$C_6H_{14}O_2N_4$
Urea	$CH_4ON_2$
Urea phosphate	$CH_7O_5N_2P$

PART VII  
PERMITTED PRESERVATIVES

*Name or Description*

Sorbic acid  
 Sodium sorbate  
 Potassium sorbate  
 Calcium sorbate  
 Formic acid  
 Ammonium formate  
 Sodium formate  
 Calcium formate  
 Acetic acid  
 Potassium acetate  
 Sodium diacetate  
 Calcium acetate  
 Lactic acid  
 Sodium lactate  
 Potassium lactate  
 Calcium lactate  
 Propionic acid  
 Ammonium propionate  
 Sodium propionate  
 Calcium propionate  
 Potassium propionate  
 Citric acid  
 Sodium citrates  
 Potassium citrates  
 Calcium citrates  
 Tartaric acid  
 Sodium tartrates  
 Potassium tartrates  
 Sodium-potassium tartrate  
 Orthophosphoric acid  
 Fumaric acid  
 Malic acid  
 Hydrochloric acid  
 Sulphuric acid  
 Formaldehyde

} for use in silage only

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## EXPLANATORY NOTE

*(This Note is not part of the Regulations.)*

These regulations, made under Part IV of the Agriculture Act 1970 (as amended by Schedule 4E to the European Communities Act 1972), apply throughout Great Britain, and are made after consultation with persons and organisations representing the interests concerned. They amend the Fertilisers and Feeding Stuffs Regulations 1973 (the principal regulations) in order to implement the provisions of Commission Directives 76/603/EEC (OJ No. L198, 23.7.76, p. 10), 77/471/EEC (OJ No. L180, 20.7.77, p. 27), 77/512/EEC (OJ No. L207, 13.8.77, p. 53), 78/58/EEC (OJ No. L18, 24.1.78, p. 7), 78/743/EEC (OJ No. L247, 9.9.78, p. 25) and 78/974/EEC (OJ No. L330, 25.11.78, p. 30) so as to:—

- (a) restrict the use of certain substances by reference to maximum permitted levels, kinds of feeding stuffs and kinds of animals (Paragraph 2(c) of Schedule 3 and Part III of the Table thereto);
- (b) delete a colourant from the list of permitted colourants (Part II Chapter B of the Table to the Schedule);
- (c) delete a substance from the list of permitted emulsifiers, stabilisers and binders and extend the list of permitted emulsifiers, stabilisers and binders (Part III of the Table to the Schedule); and
- (d) extend the list of permitted preservatives and restrict the use of certain permitted preservatives to silage only (Part VII of the Table to the Schedule).

These regulations incorporate the above amendments into a consolidation of the existing Schedule 3 of the principal regulations and the previous amendments thereof.

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