
 STATUTORY INSTRUMENTS

1982 No. 14

FOOD

COMPOSITION AND LABELLING

**The Miscellaneous Additives in Food
(Amendment) Regulations 1982**

<i>Made - - - -</i>	<i>8th January 1982</i>
<i>Laid before Parliament</i>	<i>18th January 1982</i>
<i>Coming into Operation</i>	<i>8th February 1982</i>

The Minister of Agriculture, Fisheries and Food, the Secretary of State for Social Services and the Secretary of State for Wales, acting jointly, in exercise of the powers conferred by sections 4, 7 and 123 of the Food and Drugs Act 1955(a), and now vested in them (b), and of all other powers enabling them in that behalf, hereby make the following regulations, after consultation in accordance with section 123(6) of the said Act with such organisations as appear to them to be representative of interests substantially affected by the regulations and after reference in accordance with section 82 of the said Act to the Food Hygiene Advisory Council (in so far as the regulations are made in exercise of the powers conferred by the said section 7):—

Citation, commencement and interpretation

1.—(1) These regulations may be cited as the Miscellaneous Additives in Food (Amendment) Regulations 1982 and shall come into operation on 8th February 1982.

(2) Any reference in these regulations to a numbered regulation or schedule shall be construed as a reference to the regulation or schedule so numbered in the Miscellaneous Additives in Food Regulations 1980(c).

Amendment of the Miscellaneous Additives in Food Regulations 1980

2. The Miscellaneous Additives in Food Regulations 1980 shall be further amended in accordance with the following provisions of these regulations.

Amendment of regulation 2(1)

3.—(1) In regulation 2(1) the amendments specified in the following paragraphs of this regulation shall be made.

(a) 1955 c.16 (4 & 5 Eliz. 2); section 4 was amended by section 4(1) of, and paragraph 3(1) of Schedule 4 to, the European Communities Act 1972 (c.68).

(b) S.I. 1968/1699, 1978/272.

(c) S.I. 1980/1834, to which there is an amendment not relevant to these regulations.

(2) After the definition of “buffer” there shall be inserted the following definition:—

‘ “bulking aid” means any substance, other than air, water or chewing gum base, which is capable, and generally used for the purpose, of—

- (a) contributing to the bulk of food without contributing significantly to its available energy value, or
- (b) producing bulk upon ingestion;’.

(3) After the definition of “container” there shall be inserted the following definition:—

‘ “dietetic food” means any food which—

- (a) has been specially made for a class of persons whose digestive process or metabolism is disturbed or who, by reason of their special physiological condition, obtain special benefit from a controlled consumption of certain substances, and
- (b) is suitable for fulfilling the particular nutritional requirements of that class of persons;’.

(4) After the definition of “firming agent” there shall be inserted the following definition:—

‘ “flavour modifier” means any substance which is capable of enhancing, reducing or otherwise modifying the taste or odour, or both, of a food, but does not include enzymes or water or any substance primarily used to impart taste or odour, or both, to a food;’.

(5) After the definition of “Food Chemicals Codex 1972” there shall be inserted the following definition:—

‘ “Food Chemicals Codex 1981” means the edition of the Food Chemicals Codex published in 1981 by the National Academy Press, Washington DC, United States of America;’.

(6) In the definition of “miscellaneous additive” after the word “buffer,” there shall be inserted the words “bulking aid,”.

(7) In the definition of “miscellaneous additive” after the words “firming agent,” there shall be inserted the words “flavour modifier,”.

Amendment of regulation 4

4.—(1) In regulation 4(1) for the word “additive.” where it appears for the second time there shall be substituted the following words:—

“additive:

Provided that any dietetic food may have in it or on it added L-glutamic acid, potassium hydrogen L-glutamate or calcium dihydrogen di-L-glutamate.”.

(2) In the proviso to regulation 4(2) after the words “Provided that” there shall be inserted the words “, subject to regulation 5A”.

Insertion of regulation 5A

5. After regulation 5 there shall be inserted the following regulation:—

“Food for babies and young children

5A. No person shall sell any food that is specially prepared for babies or young children if it has in it or on it any added 2-aminoethanol, *alpha*-cellulose, sodium hydrogen L-glutamate, guanosine 5'-(disodium phosphate), inosine 5'-(disodium phosphate), polydextrose or sodium 5'-ribonucleotide.”.

Amendment of Schedule 1, Part I

6.—(1) In Part I of Schedule 1 the amendments specified in the following paragraphs of this regulation shall be made.

(2) After the item relating to adipic acid there shall be inserted the following item:—

In column 1 (Name of Miscellaneous Additive)	In column 2 (Serial number)
“2-Aminoethanol.....	—”.

(3) After the item relating to carnauba wax there shall be inserted the following item:—

In column 1	In column 2
“Alpha-cellulose.....	E 460(ii)”.

(4) After the item relating to calcium gluconate there shall be inserted the following item:—

In column 1	In column 2
“Sodium hydrogen L-glutamate.....	—”.

(5) After the item relating to edible bone phosphate there shall be inserted the following items:—

In column 1	In column 2
“Guanosine 5'-(disodium phosphate).....	—
Inosine 5'-(disodium phosphate).....	—
Polydextrose.....	—
Sodium 5'-ribonucleotide.....	—”.

Amendment of Schedule 1, Part II

7.—(1) In Part II of Schedule 1 the amendments specified in the following paragraphs of this regulation shall be made.

(2) After the item relating to adipic acid there shall be inserted the following item:—

“2-Aminoethanol

Synonym.....	Monoethanolamine.
Description.....	Colourless to yellowish viscous hygroscopic liquid miscible with water in all proportions.
Content.....	Not less than 98% of H ₂ NCH ₂ CH ₂ OH.
Water.....	Not more than 0.5%.
Distillation range.....	166°C to 176°C (at 760 mm Hg).
Ethylene oxide.....	Not more than 10 mg/kg.”.

(3) After the item relating to carnauba wax there shall be inserted the following item:—

“Alpha-cellulose

Synonym..... Powdered cellulose.

The criteria in the monograph for cellulose, powdered, contained in the Food Chemicals Codex 1981 at page 80. Additionally the level of lead present shall not exceed 1 mg/kg.”.

(4) In the item relating to sodium ferrocyanide immediately below the heading there shall be inserted the following words:—

“Synonym..... Sodium hexacyanoferrate(II).”.

(5) In the item relating to potassium ferrocyanide immediately below the heading there shall be inserted the following words:—

“Synonym..... Potassium hexacyanoferrate(II).”.

(6) After the item relating to calcium gluconate there shall be inserted the following item:—

“Sodium hydrogen L-glutamate

Synonyms..... *mono*Sodium glutamate.

Sodium glutamate.

Glutamic acid, sodium salt.

Formula..... $C_5H_8NNaO_4 \cdot H_2O$ (molecular weight 187.13).

The criteria in the monograph for monosodium L-glutamate contained in the Food Chemicals Codex 1981 at page 203.”.

(7) After the item relating to edible bone phosphate there shall be inserted the following items:—

“Guanosine 5'-(disodium phosphate)

Synonyms..... Sodium 5'-guanylate.

*di*Sodium guanosine 5'-monophosphate.

Formula..... $C_{10}H_{12}N_5Na_2O_8P \cdot xH_2O$ (molecular weight (anhydrous) 407.20).

The criteria in the monograph for disodium guanylate contained in the Food Chemicals Codex 1981 at page 105.

Inosine 5'-(disodium phosphate)

Synonyms..... Sodium 5'-inosinate.

*di*Sodium inosine 5'-monophosphate.

Formula..... $C_{10}H_{11}N_4Na_2O_8P \cdot xH_2O$ (molecular weight (anhydrous) 392.19).

The criteria in the monograph for disodium inosinate contained in the Food Chemicals Codex 1981 at page 106.

Polydextrose

Description..... Polydextrose is an off-white to light tan coloured, water-soluble powder. It consists of a randomly bonded condensation polymer produced by the reaction of D-glucose with sorbitol and citric acid. Free acid groups may be neutralised with potassium hydroxide.

Content..... Not less than 90% of polymer on an ash-free and water-free basis.

Free glucose..... Not more than 4% on an ash-free and water-free basis.

Free 1,6-anhydro-D-glucose..... Not more than 4% on an ash-free and water-free basis.

Free sorbitol.....	Not more than 2% on an ash-free and water-free basis.
Water	Not more than 4% (Karl Fischer).
pH (10% aqueous solution).....	Not less than 2.5 and not more than 3.5 (not less than 5.0 and not more than 6.0 for the neutralised product).
Sulphated ash.....	Not more than 0.3% (not more than 3.0% for the neutralised product).
Arsenic	Not more than 1 mg/kg.
Lead.....	Not more than 1 mg/kg.

Sodium 5'-ribonucleotide

Description	White or nearly white crystalline powder consisting of a mixture of guanosine 5'-(disodium phosphate) and inosine 5'-(disodium phosphate) in approximately equal proportions. Soluble in water, practically insoluble in ethanol.
Content.....	Not less than 97% and not more than 102% of $C_{10}H_{12}N_5Na_2O_8P$ and $C_{10}H_{11}N_4Na_2O_8P$, and not less than 47% and not more than 53% of $C_{10}H_{12}N_5Na_2O_8P$ or of $C_{10}H_{11}N_4Na_2O_8P$, in every case calculated on an anhydrous basis.
Moisture.....	Not less than 22% and not more than 26% (Karl Fischer).
pH (5% aqueous solution).....	Not less than 7.0 and not more than 8.5.
Ammonium salts.....	Place 100 mg of sample in a test tube. Add 50 mg magnesium oxide plus 1 ml of water. Heat on a water bath for 5 minutes; the vapour evolved does not affect the colour of moist litmus paper.
Amino acids.....	Place 5 ml of a 0.1% (weight/volume) solution in a test tube. Add 1 ml of a 2% (weight/volume) solution of ninhydrin and heat for 3 minutes; no blue colour is produced.
Other nucleotides.....	The paper chromatogram obtained when sodium 5'-ribonucleotide is analysed using the procedure described for "other nucleotides" in the monograph for disodium guanylate contained in the Food Chemicals Codex 1981 at page 105 shall show no spots other than those for guanosine 5'-(disodium phosphate) and inosine 5'-(disodium phosphate)."

(8) In the item relating to aluminium sodium silicate for the words "expressed as Al_2O_2 " there shall be substituted the words "expressed as Al_2O_3 ".

Amendment of Schedule 2

8. In Schedule 2 after the item relating to glacé cherries there shall be inserted the following items:—

In column 1 (Specified food)	In column 2 (Permitted Miscellaneous Additive)	In column 3 (Milligrams per kilogram not exceeding—)
“Peeled fruit..... Peeled vegetables.....	2-Aminoethanol 2-Aminoethanol	100 100”.

In Witness whereof the Official Seal of the Minister of Agriculture, Fisheries and Food is hereunto affixed on 12th December 1981.

(L.S.)

Peter Walker,
Minister of Agriculture, Fisheries and Food.

Signed by authority of the Secretary of
State for Social Services.

Gerard Vaughan,
Minister of State,
Department of Health and Social Security.

5th January 1982.

Nicholas Edwards,
Secretary of State for Wales.

8th January 1982.

EXPLANATORY NOTE

(This Note is not part of the Regulations.)

These regulations, which come into operation on 8th February 1982, amend the Miscellaneous Additives in Food Regulations 1980 ("the 1980 regulations").

The regulations—

- (a) add bulking aids and flavour modifiers to the categories of miscellaneous additive (regulation 3(1), (2), (4), (6) and (7));
- (b) amend the 1980 regulations so as to permit the sale and the importation of dietetic foods containing added L-glutamic acid, potassium hydrogen L-glutamate or calcium dihydrogen di-L-glutamate (which would otherwise be prohibited by virtue of the addition of flavour modifiers to the categories of miscellaneous additive) (regulations 3(1) and (3) and 4(1));
- (c) add to the list of permitted miscellaneous additives in Part I of Schedule 1 to the 1980 regulations 2-aminoethanol, *alpha*-cellulose (E 460(ii)), sodium hydrogen L-glutamate, guanosine 5'-(disodium phosphate), inosine 5'-(disodium phosphate), polydextrose and sodium 5'-ribonucleotide, prescribe specific purity criteria for those miscellaneous additives and consequentially add a new definition to regulation 2(1) of the 1980 regulations (regulations 3(1) and (5), 6 and 7(1) to (3), (6) and (7));
- (d) insert a provision prohibiting the sale of food specially prepared for babies and young children containing those permitted miscellaneous additives (regulations 4(2) and 5);
- (e) amend the 1980 regulations so as to restrict to certain specified foods and within prescribed limits the use of 2-aminoethanol (regulation 8);
- (f) insert in Part II of Schedule 1 to the 1980 regulations synonyms for sodium ferrocyanide and potassium ferrocyanide (regulation 7(1), (4) and (5)); and
- (g) make a correction in the specific purity criteria for aluminium sodium silicate in Part II of Schedule 1 to the 1980 regulations (regulation 7(1) and (8)).

The Food Chemicals Codex 1981 referred to in regulations 3(5) and 7(3), (6) and (7) may be inspected at the British Library Lending Division, Boston Spa, Wetherby, West Yorkshire, LS23 7BQ (telephone Boston Spa 843434), and by appointment at the library of the Ministry of Agriculture, Fisheries and Food, Great Westminster House, Horseferry Road, London SW1P 2AE (telephone 01-216 7591).

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