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§ 181.30

Calcium phosphate.

Calcium hydrogen phosphate.

Calcium oleate.

Calcium acetate.

Calcium carbonate.

Calcium ricinoleate.

Calcium stearate.

Disodium hydrogen phosphate.

Magnesium glycerophosphate.

Magnesium stearate.

Magnesium phosphate.

Magnesium hydrogen phosphate.

Mono-, di-, and trisodium citrate.

Mono-, di-, and tripotassium citrate.

Potassium oleate.

Potassium stearate.

Sodium pyrophosphate.

Sodium stearate.

Sodium tetrapyrophosphate.

Stannous stearate (not to exceed 50 parts per million tin as a migrant in finished food). Zinc orthophosphate (not to exceed 50 parts per million zinc as a migrant in finished

food). Zinc resinate (not to exceed 50 parts per million zinc as a migrant in finished food).

 $[42\ {\rm FR}\ 14638,\ {\rm Mar.}\ 15,\ 1977;\ 42\ {\rm FR}\ 56728,\ {\rm Oct.}$ 28, 1977]

§181.30 Substances used in the manufacture of paper and paperboard products used in food packaging.

Substances used in the manufacture of paper and paperboard products used in food packaging shall include:

Aliphatic polyoxyethylene ethers.*

 $(C_6$ - $C_{18})$ 3-amino-3-aminopropane 1-Alkvl monoacetate.*

Borax or boric acid for use in adhesives, sizes, and coatings.*

Butadiene-styrene copolymer.

Chromium complex of perfluoro-octane sulfonyl glycine for use on paper and paperboard which is waxed.*

Disodium cyanodithioimidocarbamate with ethylene diamine and potassium N-methyl dithiocarbamate and/or sodium mercaptobenzothiazole (slimicides).*

Ethyl acrylate and methyl methacrylate copolymers of itaconic acid or methacrylic acid for use only on paper and paperboard which is waxed.*

Hexamethylene tetramine as a setting agent for protein, including casein.*

 $1\hbox{-}(2\hbox{-Hydroxyethyl})\hbox{-}1\hbox{-}(4\hbox{-chlorobutyl})\hbox{-}2\hbox{-}alkyl$ (C₆-C₁₇) imidazolinium chloride.*

Itaconic acid (polymerized). Melamine formaldehyde polymer.

Methyl acrylate (polymerized).

Methyl ethers of mono-, di-, and tripropylene glycol.*

Myristo chromic chloride complex.

Nitrocellulose.

Polyethylene glycol 400.

Polyvinyl acetate.

Potassium pentachlorophenate as a slime control agent *

Potassium trichlorophenate as a slime control agent.*

Resins from high and low viscosity polyvinyl alcohol for fatty foods only.

Rubber hydrochloride.

Sodium pentachlorophenate as a slime control agent.*

Sodium-trichlorophenate as a slime control agent.*

Stearato-chromic chloride complex.

Titanium dioxide.*

Urea formaldehyde polymer.

Vinylidine chlorides (polymerized).

§181.32 Acrylonitrile copolymers and resins.

- (a) Acrylonitrile copolymers and resins listed in this section, containing less than 30 percent acrylonitrile and complying with the requirements of paragraph (b) of this section, may be safely used as follows:
- (1) Films. (i) Acrylonitrile/butadiene/ styrene copolymers—no restrictions.
- (ii) Acrylonitrile/butadiene copolymers-no restrictions.
- (iii) Acrylonitrile/butadiene copolymer blended with vinyl chloride-vinyl acetate (optional at level up to 5 percent by weight of the vinyl chloride resin) resin—for use only in contact with oleomargarine.
- (iv) Acrylonitrile/styrene copolymer—no restrictions.
- (2) Coatings. (i) Acrylonitrile/butadiene copolymer blended with polyvinyl chloride resins—for use only on paper and paperboard in contact with meats and lard.
- (ii) Polyvinyl chloride resin blended with either acrylonitrile/butadiene copolymer or acrylonitrile/butadiene styrene copolymer mixed with neoprene, for use as components of conveyor belts to be used with fresh fruits, vegetables, and fish.
- (iii) Acrylonitrile/butadiene/styrene copolymer—no restrictions.
- (iv) Acrylonitrile/styrene mer-no restrictions.

^{*}Under the conditions of normal use, these substances would not reasonably be expected to migrate to food, based on available scientific information and data.

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- (3) Rigid and semirigid containers. (i) Acrylonitrile/butadiene/styrene copolymer—for use only as piping for handling food products and for repeated-use articles intended to contact food.
- (ii) Acrylonitrile/styrene resin—no restrictions.
- (iii) Acrylonitrile/butadiene copolymer blended with polyvinyl chloride resin—for use only as extruded pipe.
- (b) Limitations for acrylonitrile monomer extraction for finished foodcontact articles, determined by using the method of analysis titled "Gas-Solid Chromatographic Procedure for Determining Acrylonitrile Monomer in Acrylonitrile-Containing Polymers and Food-Simulating Solvents," which is incorporated by reference. Copies are available from the Center for Food Safety and Applied Nutrition (HFS-200), Food and Drug Administration, 200 C St. SW., Washington, DC 20204, or available for inspection at the Office of the Federal Register, 800 North Capitol Street, NW., suite 700, Washington, DC 20408, are as follows:
- (1) In the case of single-use articles having a volume to surface ratio of 10 milliliters or more per square inch of food-contact surface—0.003 milligram/square inch when extracted to equilibrium at 120 °F with food-simulating solvents appropriate to the intended conditions of use.
- (2) In the case of single-use articles having a volume to surface ratio of less than 10 milliliters per square inch of food-contact surface—0.3 part per million calculated on the basis of the volume of the container when extracted to equilibrium at 120 °F with food-simulating solvents appropriate to the intended conditions of use.
- (3) In the case of repeated-use articles—0.003 milligram/square inch when extracted at a time equivalent to initial batch usage utilizing food-simulating solvents and temperatures appropriate to the intended conditions of use.

The food-simulating solvents shall include, where applicable, distilled water, 8 percent or 50 percent ethanol, 3 percent acetic acid, and either *n*-heptane or an appropriate oil or fat.

(c) Acrylonitrile monomer may present a hazard to health when ingested. Accordingly, any food-contact article containing acrylonitrile copolymers or resins that yield acrylonitrile monomer in excess of that amount provided for in paragraph (b) of this section shall be deemed to be adulterated in violation of section 402 of the Act.

[42 FR 14638, Mar. 15, 1977, as amended at 47 FR 11850, Mar. 19, 1982; 54 FR 24899, June 12, 1980]

§ 181.33 Sodium nitrate and potassium nitrate.

Sodium nitrate and potassium nitrate are subject to prior sanctions issued by the U.S. Department of Agriculture for use as sources of nitrite, with or without sodium or potassium nitrite, in the production of cured red meat products and cured poultry products.

[48 FR 1705, Jan. 14, 1983]

§181.34 Sodium nitrite and potassium nitrite.

Sodium nitrite and potassium nitrite are subject to prior sanctions issued by the U.S. Department of Agriculture for use as color fixatives and preservative agents, with or without sodium or potassium nitrate, in the curing of red meat and poultry products.

[48 FR 1705, Jan. 14, 1983]

PART 182—SUBSTANCES GENERALLY RECOGNIZED AS SAFE

Subpart A—General Provisions

Sec.

- $182.1\,$ Substances that are generally recognized as safe.
- 182.10 Spices and other natural seasonings and flavorings.
- 182.20 Essential oils, oleoresins (solventfree), and natural extractives (including distillates).
- 182.40 Natural extractives (solvent-free) used in conjunction with spices, seasonings, and flavorings.
- 182.50 Certain other spices, seasonings, essential oils, oleoresins, and natural extracts.
- 182.60 Synthetic flavoring substances and adjuvants.
- 182.70 Substances migrating from cotton and cotton fabrics used in dry food packaging.
- $182.90\,$ Substances migrating to food from paper and paperboard products.
- 182.99 Adjuvants for pesticide chemicals.