

Common name	Botanical name of plant source
Zedoary bark	<i>Curcuma zedoaria</i> Rosc.

§ 582.30 Natural substances used in conjunction with spices and other natural seasonings and flavorings.

Natural substances used in conjunction with spices and other natural

seasonings and flavorings that are generally recognized as safe for their intended use, within the meaning of section 409 of the act, are as follows:

Common name	Botanical name of plant source
Algae, brown (kelp)	<i>Laminaria</i> spp. and <i>Nereocystis</i> spp.
Algae, red	<i>Porphyra</i> spp. and <i>Rhododymenia palmata</i> (L.) Grev.
Dulse	<i>Rhododymenia palmata</i> (L.)

§ 582.40 Natural extractives (solvent-free) used in conjunction with spices, seasonings, and flavorings.

Natural extractives (solvent-free) used in conjunction with spices,

seasonings, and flavorings that are generally recognized as safe for their intended use, within the meaning of section 409 of the act, are as follows:

Common name	Botanical name of plant source
Algae, brown	<i>Laminaria</i> spp. and <i>Nereocystis</i> spp.
Algae, red	<i>Porphyra</i> spp. and <i>Rhododymenia palmata</i> (L.) Grev.
Apricot kernel (persic oil)	<i>Prunus armeniaca</i> L.
Dulse	<i>Rhododymenia palmata</i> (L.) Grev.
Kelp (see algae, brown).	
Peach kernel (persic oil)	<i>Prunus persica</i> Sieb. et Zucc.
Peanut stearine	<i>Arachis hypogaea</i> L.
Persic oil (see apricot kernel and peach kernel).	
Quince seed	<i>Cydonia oblonga</i> Miller.

§ 582.50 Certain other spices, seasonings, essential oils, oleoresins, and natural extracts.

Certain other spices, seasonings, essential oils, oleoresins, and natural ex-

tracts that are generally recognized as safe for their intended use, within the meaning of section 409 of the act, are as follows:

Common name	Derivation
Ambergris	<i>Physeter macrocephalus</i> L.
Castoreum	Castor fiber L. and <i>C. canadensis</i> Kuhl.
Civet (zibeth, zibet, zibetum)	Civet cats, <i>Viverra civetta</i> Schreber and <i>Viverra zibetha</i> Schreber.
Cognac oil, white and green	<i>Ethyl oenanthate</i> , so-called.
Musk (Tonquin musk)	Musk deer, <i>Moschus moschiferus</i> L.

§ 582.60 Synthetic flavoring substances and adjuvants.

Synthetic flavoring substances and adjuvants that are generally recognized as safe for their intended use, within the meaning of section 409 of the act, are as follows:

Acetaldehyde (ethanal).
Acetoin (acetyl methylcarbinol).

Aconitic acid (equisetic acid, citridic acid, achilleic acid).
Anethole (parapropenyl anisole).
Benzaldehyde (benzoic aldehyde).
N-Butyric acid (butanoic acid).
d- or *l*-Carvone (carvol).
Cinnamaldehyde (cinnamic aldehyde).
Citral (2,6-dimethyloctadien-2,6-*al*-8, geranial, neral).

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Decanal (*N*-decylaldehyde, capraldehyde, capric aldehyde, caprinaldehyde, aldehyde C-10).
 Diacetyl (2,3-butanedione). Ethyl acetate. Ethyl butyrate.
 3-Methyl-3-phenyl glycidic acid ethyl ester (ethyl-methyl-phenyl-glycidate, so-called strawberry aldehyde, C-16 aldehyde).
 Ethyl vanillin.
 Eugenol.
 Geraniol (3,7-dimethyl-2,6 and 3,6-octadien-1-ol).
 Geranyl acetate (geraniol acetate).
 Glycerol (glyceryl) tributyrinate (tributyryl, butyryl).
 Limonene (*d*-, *l*-, and *dl*-).
 Linalool (linalol, 3,7-dimethyl-1,6-octadien-3-ol).
 Linalyl acetate (bergamol).
 1-Malic acid.
 Methyl anthranilate (methyl-2-aminobenzoate).
 Piperonal (3,4-methylenedioxy-benzaldehyde, heliotropin).
 Vanillin.

§ 582.80 Trace minerals added to animal feeds.

These substances added to animal feeds as nutritional dietary supplements are generally recognized as safe when added at levels consistent with good feeding practice.¹

Element	Source compounds
Cobalt	Cobalt acetate. Cobalt carbonate. Cobalt chloride. Cobalt oxide. Cobalt sulfate.
Copper	Copper carbonate. Copper chloride. Copper gluconate. Copper hydroxide. Copper orthophosphate. Copper oxide. Copper pyrophosphate. Copper sulfate.
Iodine	Calcium iodate. Calcium iodobenenate. Cuprous iodide. 3,5-Diiodosalicylic acid. Ethylenediamine dihydroiodide. Potassium iodate. Potassium iodide. Sodium iodate. Sodium iodide. Thymol iodide.
Iron	Iron ammonium citrate. Iron carbonate. Iron chloride. Iron gluconate. Iron oxide. Iron phosphate. Iron pyrophosphate. Iron sulfate.

¹ All substances listed may be in anhydrous or hydrated form.

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Element	Source compounds
Manganese	Reduced iron. Manganese acetate. Manganese carbonate. Manganese citrate (soluble). Manganese chloride. Manganese gluconate. Manganese orthophosphate. Manganese phosphate (dibasic). Manganese sulfate. Manganous oxide.
Zinc	Zinc acetate. Zinc carbonate. Zinc chloride. Zinc oxide. Zinc sulfate.

§ 582.99 Adjuvants for pesticide chemicals.

Adjuvants, identified and used in accordance with 40 CFR 180.1001(c) and (d), which are added to pesticide use dilutions by a grower or applicator prior to application to the raw agricultural commodity, are exempt from the requirement of tolerances under section 409 of the act.

Subpart B—General Purpose Food Additives

§ 582.1005 Acetic acid.

(a) *Product.* Acetic acid.
 (b) *Conditions of use.* This substance is generally recognized as safe when used in accordance with good manufacturing or feeding practice.

§ 582.1009 Adipic acid.

(a) *Product.* Adipic acid.
 (b) [Reserved]
 (c) *Limitations, restrictions, or explanation.* This substance is generally recognized as safe when used as a buffer and neutralizing agent in accordance with good manufacturing or feeding practice.

§ 582.1033 Citric acid.

(a) *Product.* Citric acid.
 (b) *Conditions of use.* This substance is generally recognized as safe when used in accordance with good manufacturing or feeding practice.

§ 582.1057 Hydrochloric acid.

(a) *Product.* Hydrochloric acid.
 (b) [Reserved]
 (c) *Limitations, restrictions, or explanation.* This substance is generally recognized as safe when used as a buffer