

NEW REFERENCE DOCUMENT - USDA

**Title 7—Agriculture; Subtitle B—Regulations of the Department of Agriculture
Chapter I—Agricultural Marketing Service (Standards, Inspections, Marketing Practices),
Department of Agriculture; Subchapter M—Organic Foods Production Act Provisions; Part
205—National Organic Program; Subpart G Administrative
The National List of Allowed and Prohibited Substances**

§ 205.601 Synthetic substances allowed for use in organic crop production.

In accordance with restrictions specified in this section, the following synthetic substances may be used in organic crop production: *Provided*, That, use of such substances do not contribute to contamination of crops, soil, or water.

Substances allowed by this section, except disinfectants and sanitizers in paragraph (a) and those substances in paragraphs (c), (j), (k), (l), and (o) of this section, may only be used when the provisions set forth in § 205.206(a) through (d) prove insufficient to prevent or control the target pest.

(3) The nutritional quality of the food is maintained when the substance is used, and the substance, itself, or its breakdown products do not have an adverse effect on human health as defined by applicable Federal regulations;

(4) The substance's primary use is not as a preservative or to recreate or improve flavors, colors, textures, or nutritive value lost during processing, except where the replacement of nutrients is required by law;

(5) The substance is listed as generally recognized as safe (GRAS) by Food and Drug Administration (FDA) when used in accordance with FDA's good manufacturing practices (GMP) and contains no residues of heavy metals or other contaminants in excess of tolerances set by FDA; and

(6) The substance is essential for the handling of organically produced agricultural products.

(c) Nonsynthetics used in organic processing will be evaluated using the criteria specified in the Act (7 U.S.C. 6517 and 6518).

(a) As algicide, disinfectants, and sanitizer, including irrigation system cleaning systems.

(1) Alcohols.

(i) Ethanol.

(ii) Isopropanol.

(2) Chlorine materials—For pre-harvest use, residual chlorine levels in the water in direct crop contact or as water from cleaning irrigation systems applied to soil must not exceed the maximum residual disinfectant limit under the Safe Drinking Water Act, except that chlorine products may be used in edible sprout production according to EPA label directions.

(i) Calcium hypochlorite.

(ii) Chlorine dioxide.

(iii) Hypochlorous acid—generated from electrolyzed water.

(iv) Potassium hypochlorite—for use in water for irrigation purposes.

(v) Sodium hypochlorite.

(3) Copper sulfate—for use as an algicide in aquatic rice systems, is limited to one application per field during any 24-month period. Application rates are limited to those which do not increase baseline soil test values for copper over a timeframe agreed upon by the producer and accredited certifying agent.

(4) Hydrogen peroxide.

(5) Ozone gas—for use as an irrigation system cleaner only.

(6) Peracetic acid—for use in disinfecting equipment, seed, and asexually propagated planting material.

Also permitted in hydrogen peroxide formulations as allowed in § 205.601(a) at concentration of no more than 6% as indicated on the pesticide product label.

(7) Soap-based algicide/demossers.

(8) Sodium carbonate peroxyhydrate (CAS #-15630-89-4)—Federal law restricts the use of this substance in food crop production to approved food uses identified on the product label.

(b) As herbicides, weed barriers, as applicable.

(1) Herbicides, soap-based—for use in farmstead maintenance (roadways, ditches, right of ways, building perimeters) and ornamental crops.

(2) Mulches.

(i) Newspaper or other recycled paper, without glossy or colored inks.

(ii) Plastic mulch and covers (petroleum-based other than polyvinyl chloride (PVC)).

- (iii) Biodegradable biobased mulch film as defined in § 205.2. Must be produced without organisms or feedstock derived from excluded methods.
- (c) As compost feedstocks—Newspapers or other recycled paper, without glossy or colored inks.
- (d) As animal repellents—Soaps, ammonium—for use as a large animal repellent only, no contact with soil or edible portion of crop.
- (e) As insecticides (including acaricides or mite control).
 - (1) Ammonium carbonate—for use as bait in insect traps only, no direct contact with crop or soil.
 - (2) Aqueous potassium silicate (CAS #-1312-76-1)—the silica, used in the manufacture of potassium silicate, must be sourced from naturally occurring sand.
 - (3) Boric acid—structural pest control, no direct contact with organic food or crops.
 - (4) Copper sulfate—for use as tadpole shrimp control in aquatic rice production, is limited to one application per field during any 24-month period. Application rates are limited to levels which do not increase baseline soil test values for copper over a timeframe agreed upon by the producer and accredited certifying agent.
 - (5) Elemental sulfur.
 - (6) Lime sulfur—including calcium polysulfide.
 - (7) Oils, horticultural—narrow range oils as dormant, suffocating, and summer oils.
 - (8) Soaps, insecticidal.
 - (9) Sticky traps/barriers.
 - (10) Sucrose octanoate esters (CAS #s—42922-74-7; 58064-47-4)—in accordance with approved labeling.
- (f) As insect management. Pheromones.
- (g) As rodenticides. Vitamin D₃.
- (h) As slug or snail bait.
 - (1) Ferric phosphate (CAS # 10045-86-0).
 - (2) Elemental sulfur.
- (i) As plant disease control.
 - (1) Aqueous potassium silicate (CAS #-1312-76-1)—the silica, used in the manufacture of potassium silicate, must be sourced from naturally occurring sand.
 - (2) Coppers, fixed—copper hydroxide, copper oxide, copper oxychloride, includes products exempted from EPA tolerance, *Provided*, That, copper-based materials must be used in a manner that minimizes accumulation in the soil and shall not be used as herbicides.
 - (3) Copper sulfate—Substance must be used in a manner that minimizes accumulation of copper in the soil.
 - (4) Hydrated lime.
 - (5) Hydrogen peroxide.
 - (6) Lime sulfur.
 - (7) Oils, horticultural, narrow range oils as dormant, suffocating, and summer oils.
 - (8) Peracetic acid—for use to control fire blight bacteria. Also permitted in hydrogen peroxide formulations as allowed in § 205.601(i) at concentration of no more than 6% as indicated on the pesticide product label.
 - (9) Potassium bicarbonate.
 - (10) Elemental sulfur.
 - (11) Polyoxin D zinc salt.
- (j) As plant or soil amendments.
 - (1) Aquatic plant extracts (other than hydrolyzed)—Extraction process is limited to the use of potassium hydroxide or sodium hydroxide; solvent amount used is limited to that amount necessary for extraction.
 - (2) Elemental sulfur.
 - (3) Humic acids—naturally occurring deposits, water and alkali extracts only.
 - (4) Lignin sulfonate—chelating agent, dust suppressant.
 - (5) Magnesium oxide (CAS # 1309-48-4)—for use only to control the viscosity of a clay suspension agent for humates.
 - (6) Magnesium sulfate—allowed with a documented soil deficiency.
 - (7) Micronutrients—not to be used as a defoliant, herbicide, or desiccant. Those made from nitrates or chlorides are not allowed. Micronutrient deficiency must be documented by soil or tissue testing or other documented and verifiable method as approved by the certifying agent.
- (i) Soluble boron products.
- (ii) Sulfates, carbonates, oxides, or silicates of zinc, copper, iron, manganese, molybdenum, selenium, and cobalt.

§ 205.602 Nonsynthetic substances prohibited for use in organic crop production.

The following nonsynthetic substances may not be used in organic crop production:

- (8) Liquid fish products—can be pH adjusted with sulfuric, citric or phosphoric acid. The amount of acid used shall not exceed the minimum needed to lower the pH to 3.5.
- (9) Vitamins, C and E.
- (10) Squid byproducts—from food waste processing only. Can be pH adjusted with sulfuric, citric, or phosphoric acid. The amount of acid used shall not exceed the minimum needed to lower the pH to 3.5.
- (11) Sulfurous acid (CAS # 7782-99-2) for on-farm generation of substance utilizing 99% purity elemental sulfur per paragraph (j)(2) of this section.
- (k) As plant growth regulators.
 - (1) Ethylene gas—for regulation of pineapple flowering.
 - (2) Fatty alcohols (C6, C8, C10, and/or C12)—for sucker control in organic tobacco production.
- (l) As floating agents in postharvest handling. Sodium silicate—for tree fruit and fiber processing.
- (m) As synthetic inert ingredients as classified by the Environmental Protection Agency (EPA), for use with nonsynthetic substances or synthetic substances listed in this section and used as an active pesticide ingredient in accordance with any limitations on the use of such substances.
 - (1) EPA List 4—Inerts of Minimal Concern.
 - (2) EPA List 3—Inerts of unknown toxicity—for use only in passive pheromone dispensers.
- (n) Seed preparations. Hydrogen chloride (CAS # 7647-01-0)—for delinting cotton seed for planting.
- (o) Production aids.
 - (1) Microcrystalline cheesewax (CAS #'s 64742-42-3, 8009-03-08, and 8002-74-2)—for use in log grown mushroom production. Must be made without either ethylene-propylene co-polymer or synthetic colors.
 - (2) Paper-based crop planting aids as defined in § 205.2. Virgin or recycled paper without glossy paper or colored inks.
- (p)-(z) [Reserved]
- (a) Ash from manure burning.
- (b) Arsenic.

§ 205.603 Synthetic substances allowed for use in organic livestock production.

In accordance with restrictions specified in this section the following synthetic substances may be used in organic livestock production:

- (c) Calcium chloride, brine process is natural and prohibited for use except as a foliar spray to treat a physiological disorder associated with calcium uptake.
- (d) Lead salts.
- (e) Potassium chloride—unless derived from a mined source and applied in a manner that minimizes chloride accumulation in the soil.
- (f) Rotenone (CAS # 83-79-4).
- (g) Sodium fluoaluminate (mined).
- (h) Sodium nitrate—unless use is restricted to no more than 20% of the crop's total nitrogen requirement; use in spirulina production is unrestricted until October 21, 2005.
- (i) Strychnine.
- (j) Tobacco dust (nicotine sulfate).
 - (a) As disinfectants, sanitizer, and medical treatments as applicable.
- (1) Alcohols.
 - (i) Ethanol—disinfectant and sanitizer only, prohibited as a feed additive.
 - (ii) Isopropanol-disinfectant only.
- (2) Aspirin—approved for health care use to reduce inflammation.
- (3) Atropine (CAS #-51-55-8)—federal law restricts this drug to use by or on the lawful written or oral order of a licensed veterinarian, in full compliance with the AMDUCA and 21 CFR part 530 of the Food and Drug Administration regulations. Also, for use under 7 CFR part 205, the NOP requires:
 - (i) Use by or on the lawful written order of a licensed veterinarian; and
 - (ii) A meat withdrawal period of at least 56 days after administering to livestock intended for slaughter; and a milk discard period of at least 12 days after administering to dairy animals.
- (4) Biologics—Vaccines.
- (5) Butorphanol (CAS #-42408-82-2)—federal law restricts this drug to use by or on the lawful written or oral order of a licensed veterinarian, in full compliance with the AMDUCA and 21 CFR part 530 of the Food and Drug Administration regulations. Also, for use under 7 CFR part 205, the NOP requires:
 - (i) Use by or on the lawful written order of a licensed veterinarian; and

- (ii) A meat withdrawal period of at least 42 days after administering to livestock intended for slaughter; and a milk discard period of at least 8 days after administering to dairy animals.
- (6) Activated charcoal (CAS # 7440-44-0)—must be from vegetative sources.
- (7) Calcium borogluconate (CAS # 5743-34-0)—for treatment of milk fever only.
- (8) Calcium propionate (CAS # 4075-81-4)—for treatment of milk fever only.
- (9) Chlorhexidine (CAS # 55-56-1)—for medical procedures conducted under the supervision of a licensed veterinarian. Allowed for use as a teat dip when alternative germicidal agents and/or physical barriers have lost their effectiveness.
- (10) Chlorine materials—disinfecting and sanitizing facilities and equipment. Residual chlorine levels in the water shall not exceed the maximum residual disinfectant limit under the Safe Drinking Water Act.
 - (i) Calcium hypochlorite.
 - (ii) Chlorine dioxide.
 - (iii) Hypochlorous acid—generated from electrolyzed water.
 - (iv) Sodium hypochlorite
- (11) Electrolytes—without antibiotics.
- (12) Flunixin (CAS #-38677-85-9)—in accordance with approved labeling; except that for use under 7 CFR part 205, the NOP requires a withdrawal period of at least two-times that required by the FDA.
- (13) Glucose.
- (14) Glycerin—allowed as a livestock teat dip, must be produced through the hydrolysis of fats or oils.
- (15) Hydrogen peroxide.
- (16) Iodine.
- (17) Kaolin pectin—for use as an adsorbent, antidiarrheal, and gut protectant.
- (18) Magnesium hydroxide (CAS #-1309-42-8)—federal law restricts this drug to use by or on the lawful written or oral order of a licensed veterinarian, in full compliance with the AMDUCA and 21 CFR part 530 of the Food and Drug Administration regulations. Also, for use under 7 CFR part 205, the NOP requires use by or on the lawful written order of a licensed veterinarian.
- (19) Magnesium sulfate.
- (20) Mineral oil—for treatment of intestinal compaction, prohibited for use as a dust suppressant.
- (21) Nutritive supplements—injectable supplements of trace minerals per paragraph (d)(2) of this section, vitamins per paragraph (d)(3), and electrolytes per paragraph (a)(11), with excipients per paragraph (f), in accordance with FDA and restricted to use by or on the order of a licensed veterinarian.
- (22) Oxytocin—use in postparturition therapeutic applications.
- (23) Parasiticides—prohibited in slaughter stock, allowed in emergency treatment for dairy and breeder stock when organic system plan-approved preventive management does not prevent infestation. In breeder stock, treatment cannot occur during the last third of gestation if the progeny will be sold as organic and must not be used during the lactation period for breeding stock. Allowed for fiber bearing animals when used a minimum of 36 days prior to harvesting of fleece or wool that is to be sold, labeled, or represented as organic.
 - (i) Fenbendazole (CAS #43210-67-9)—milk or milk products from a treated animal cannot be labeled as provided for in subpart D of this part for: 2 days following treatment of cattle; 36 days following treatment of goats, sheep, and other dairy species.
 - (ii) Moxidectin (CAS #113507-06-5)—milk or milk products from a treated animal cannot be labeled as provided for in subpart D of this part for: 2 days following treatment of cattle; 36 days following treatment of goats, sheep, and other dairy species.
- (24) Peroxyacetic/peracetic acid (CAS #-79-21-0)—for sanitizing facility and processing equipment.
- (25) Phosphoric acid—allowed as an equipment cleaner, *Provided*, That, no direct contact with organically managed livestock or land occurs.
- (26) Poloxalene (CAS #-9003-11-6)—for use under 7 CFR part 205, the NOP requires that poloxalene only be used for the emergency treatment of bloat.
- (27) Propylene glycol (CAS #57-55-6)—only for treatment of ketosis in ruminants.
- (28) Sodium chlorite, acidified—allowed for use on organic livestock as a teat dip treatment only.
- (29) Tolazoline (CAS #59-98-3)—federal law restricts this drug to use by or on the lawful written or oral order of a licensed veterinarian, in full compliance with the AMDUCA and 21 CFR part 530 of the Food and Drug Administration regulations. Also, for use under 7 CFR part 205, the NOP requires:
 - (i) Use by or on the lawful written order of a licensed veterinarian;
 - (ii) Use only to reverse the effects of sedation and analgesia caused by Xylazine; and,
 - (iii) A meat withdrawal period of at least 8 days after administering to livestock intended for slaughter; and a milk discard period of at least 4 days after administering to dairy animals.
- (30) Xylazine (CAS #7361-61-7)—federal law restricts this drug to use by or on the lawful written or oral order of a licensed veterinarian, in full compliance with the AMDUCA and 21 CFR part 530 of the Food and Drug Administration regulations. Also, for use under 7 CFR part 205, the NOP requires:
 - (i) Use by or on the lawful written order of a licensed veterinarian; and,

- (ii) A meat withdrawal period of at least 8 days after administering to livestock intended for slaughter; and a milk discard period of at least 4 days after administering to dairy animals.
- (b) As topical treatment, external parasiticide or local anesthetic as applicable.
 - (1) Copper sulfate.
 - (2) Elemental sulfur—for treatment of livestock and livestock housing.
 - (3) Formic acid (CAS # 64-18-6)—for use as a pesticide solely within honeybee hives.
 - (4) Iodine.
 - (5) Lidocaine—as a local anesthetic. Use requires a withdrawal period of 8 days after administering to livestock intended for slaughter and 6 days after administering to dairy animals.
 - (6) Lime, hydrated—as an external pest control, not permitted to cauterize physical alterations or deodorize animal wastes.
 - (7) Mineral oil—for topical use and as a lubricant.

§ 205.604 Nonsynthetic substances prohibited for use in organic livestock production.

The following nonsynthetic substances may not be used in organic livestock production:

§ 205.605 Nonagricultural (nonorganic) substances allowed as ingredients in or on processed

- (8) Oxalic acid dihydrate—for use as a pesticide solely for apiculture.
- (9) Sodium chlorite, acidified—allowed for use on organic livestock as teat dip treatment only.
- (10) Sucrose octanoate esters (CAS #s-42922-74-7; 58064-47-4)—in accordance with approved labeling.
- (11) Zinc sulfate—for use in hoof and foot treatments only.
- (c) As feed supplements—None.
- (d) As feed additives.
 - (1) DL-Methionine, DL-Methionine—hydroxy analog, and DL-Methionine—hydroxy analog calcium (CAS #s 59-51-8, 583-91-5, 4857-44-7, and 922-50-9)—for use only in organic poultry production at the following pounds of synthetic 100 percent methionine per ton of feed in the diet, maximum rates as averaged per ton of feed over the life of the flock: Laying chickens—2 pounds; broiler chickens—2.5 pounds; turkeys and all other poultry—3 pounds.
 - (2) Trace minerals, used for enrichment or fortification when FDA approved.
 - (3) Vitamins, used for enrichment or fortification when FDA approved.
- (e) As synthetic inert ingredients as classified by the Environmental Protection Agency (EPA), for use with nonsynthetic substances or synthetic substances listed in this section and used as an active pesticide ingredient in accordance with any limitations on the use of such substances.
 - (1) EPA List 4—Inerts of Minimal Concern.
 - (2) [Reserved]
- (f) Excipients—only for use in the manufacture of drugs and biologics used to treat organic livestock when the excipient is:
 - (1) Identified by the FDA as Generally Recognized As Safe;
 - (2) Approved by the FDA as a food additive;
 - (3) Included in the FDA review and approval of a New Animal Drug Application or New Drug Application;
 or
 - (4) Approved by APHIS for use in veterinary biologics.
- (g)-(z) [Reserved]
 - (a) Strychnine.
 - (b)-(z) [Reserved]

products labeled as “organic” or “made with organic (specified ingredients or food group(s)).”

The following nonagricultural substances may be used as ingredients in or on processed products labeled as “organic” or “made with organic (specified ingredients or food group(s))” only in accordance with any restrictions specified in this section.

- (a) *Nonsynthetics allowed.*
 - (1) Acids (Citric—produced by microbial fermentation of carbohydrate substances; and Lactic).
 - (2) Agar-agar.
 - (3) Animal enzymes—(Rennet—animals derived; Catalase—bovine liver; Animal lipase; Pancreatin; Pepsin; and Trypsin).
 - (4) Attapulgate—as a processing aid in the handling of plant and animal oils.
 - (5) Bentonite.

- (6) Calcium carbonate.
 - (7) Calcium chloride.
 - (8) Calcium sulfate—mined.
 - (9) Carrageenan.
 - (10) Diatomaceous earth—food filtering aid only.
 - (11) Enzymes—must be derived from edible, nontoxic plants, nonpathogenic fungi, or nonpathogenic bacteria.
 - (12) Flavors—nonsynthetic flavors may be used when organic flavors are not commercially available. All flavors must be derived from organic or nonsynthetic sources only and must not be produced using synthetic solvents and carrier systems or any artificial preservative.
 - (13) Gellan gum (CAS # 71010-52-1)—high-acyl form only.
 - (14) Glucono delta-lactone—production by the oxidation of D-glucose with bromine water is prohibited.
 - (15) Kaolin.
 - (16) L-Malic acid (CAS # 97-67-6).
 - (17) Magnesium chloride.
 - (18) Magnesium sulfate, nonsynthetic sources only.
 - (19) Microorganisms—any food grade bacteria, fungi, and other microorganism.
 - (20) Nitrogen—oil-free grades.
 - (21) Oxygen—oil-free grades.
 - (22) Perlite—for use only as a filter aid in food processing.
 - (23) Potassium chloride.
 - (24) Potassium iodide.
 - (25) Pullulan—for use only in tablets and capsules for dietary supplements labeled “made with organic (specified ingredients or food group(s)).
 - (26) Sodium bicarbonate.
 - (27) Sodium carbonate.
 - (28) Tartaric acid—made from grape wine.
 - (29) Waxes—nonsynthetic (Wood rosin).
 - (30) Yeast—When used as food or a fermentation agent in products labeled as “organic,” yeast must be organic if its end use is for human consumption; nonorganic yeast may be used when organic yeast is not commercially available. Growth on petrochemical substrate and sulfite waste liquor is prohibited. For smoked yeast, nonsynthetic smoke flavoring process must be documented.
- (b) *Synthetics allowed.*
- (1) Acidified sodium chlorite—Secondary direct antimicrobial food treatment and indirect food contact surface sanitizing. Acidified with citric acid only.
 - (2) Activated charcoal (CAS #s 7440-44-0; 64365-11-3)—only from vegetative sources; for use only as a filtering aid.
 - (3) Alginates.
 - (4) Ammonium bicarbonate—for use only as a leavening agent.
 - (5) Ammonium carbonate—for use only as a leavening agent.
 - (6) Ascorbic acid.
 - (7) Calcium citrate.
 - (8) Calcium hydroxide.
 - (9) Calcium phosphates (monobasic, dibasic, and tribasic).
 - (10) Carbon dioxide.
 - (11) Cellulose (CAS #9004-34-6)—for use in regenerative casings, powdered cellulose as an anti-caking agent (non-chlorine bleached) and filtering aid. Microcrystalline cellulose is prohibited.
 - (12) Chlorine materials—disinfecting and sanitizing food contact surfaces, equipment and facilities may be used up to maximum labeled rates. Chlorine materials in water used in direct crop or food contact are permitted at levels approved by the FDA or EPA for such purpose, provided the use is followed by a rinse with potable water at or below the maximum residual disinfectant limit for the chlorine material under the Safe Drinking Water Act. Chlorine in water used as an ingredient in organic food handling must not exceed the maximum residual disinfectant limit for the chlorine material under the Safe Drinking Water Act.
 - (i) Calcium hypochlorite.
 - (ii) Chlorine dioxide.
 - (iii) Hypochlorous acid—generated from electrolyzed water.
 - (iv) Sodium hypochlorite.
 - (13) Collagen gel—as casing, may be used only when organic collagen gel is not commercially available.
 - (14) Ethylene—allowed for postharvest ripening of tropical fruit and degreening of citrus.
 - (15) Ferrous sulfate—for iron enrichment or fortification of foods when required by regulation or recommended (independent organization).
 - (16) Glycerides (mono and di)—for use only in drum drying of food.

- (17) Hydrogen peroxide.
- (18) Low-acyl gellan gum.
- (19) Magnesium stearate—for use only in agricultural products labeled “made with organic (specified ingredients or food group(s)),” prohibited in agricultural products labeled “organic”.
- (20) Nutrient vitamins and minerals, in accordance with 21 CFR 104.20, Nutritional Quality Guidelines For Foods.
- (21) Ozone.
- (22) Peracetic acid/Peroxyacetic acid (CAS # 79-21-0)—for use in wash and/or rinse water according to FDA limitations. For use as a sanitizer on food contact surfaces.
- (23) Phosphoric acid—cleaning of food-contact surfaces and equipment only.
- (24) Potassium carbonate.
- (25) Potassium citrate.
- (26) Potassium hydroxide—prohibited for use in lye peeling of fruits and vegetables except when used for peeling peaches.
- (27) Potassium lactate—for use as an antimicrobial agent and pH regulator only.
- (28) Potassium phosphate—for use only in agricultural products labeled “made with organic (specific ingredients or food group(s)),” prohibited in agricultural products labeled “organic”.
- (29) Silicon dioxide—Permitted as a defoamer. Allowed for other uses when organic rice hulls are not commercially available.
- (30) Sodium acid pyrophosphate (CAS # 7758-16-9)—for use only as a leavening agent.
- (31) Sodium citrate.
- (32) Sodium hydroxide—prohibited for use in lye peeling of fruits and vegetables.
- (33) Sodium lactate—for use as an antimicrobial agent and pH regulator only.
- (34) Sodium phosphates—for use only in dairy foods.
- (35) Sulfur dioxide—for use only in wine labeled “made with organic grapes,” Provided, That, total sulfite concentration does not exceed 100 ppm.
- (36) Tocopherols—derived from vegetable oil when rosemary extracts are not a suitable alternative.
- (37) Xanthan gum.
- (c)-(z) [Reserved]

§ 205.606 Nonorganically produced agricultural products allowed as ingredients in or on processed products labeled as “organic.”

Only the following nonorganically produced agricultural products may be used as ingredients in or on processed products labeled as “organic,” only in accordance with any restrictions specified in this section, and only when the product is not commercially available in organic form.

- (a) Carnauba wax
- (b) Casings, from processed intestines.
- (c) Celery powder.
- (d) Colors derived from agricultural products—Must not be produced using synthetic solvents and carrier systems or any artificial preservative.
 - (1) Beet juice extract color—derived from *Beta vulgaris* L., except must not be produced from sugarbeets.
 - (2) Beta-carotene extract color—derived from carrots (*Daucus carota* L.) or algae (*Dunaliella salina*).
 - (3) Black/purple carrot juice color—derived from *Daucus carota* L.
 - (4) Chokeberry, aronia juice color—derived from *Aronia arbutifolia* (L.) Pers. or *Aronia melanocarpa* (Michx.)Elliott.
 - (5) Elderberry juice color—derived from *Sambucus nigra* L.
 - (6) Grape skin extract color—derived from *Vitis vinifera* L.
 - (7) Purple sweet potato juice color—derived from *Ipomoea batatas* L. or *Solanum tuberosum* L.
 - (8) Red cabbage extract color—derived from *Brassica oleracea* L.
 - (9) Red radish extract color—derived from *Raphanus sativus* L.
 - (10) Saffron extract color—derived from *Crocus sativus* L.
- (e) Cornstarch (native).
- (f) Fish oil (Fatty acid CAS #'s: 10417-94-4, and 25167-62-8)—stabilized with organic ingredients or only with ingredients on the National List, §§ 205.605 and 205.606.
- (g) Fructooligosaccharides (CAS # 308066-66-2).
- (h) Gelatin (CAS # 9000-70-8).
- (i) Glycerin (CAS # 56-81-5)—produced from agricultural source materials and processed using biological or mechanical/physical methods as described under § 205.270(a).
- (j) Gums—water extracted only (Arabic; Guar; Locust bean; and Carob bean).

NEW REFERENCE DOCUMENT - FIFRA

Environmental Protection Agency § 152.25

TABLE 1—ACTIVE INGREDIENTS PERMITTED IN EXEMPTED MINIMUM RISK PESTICIDE PRODUCTS

<u>Label display name</u>	<u>Chemical name</u>
Castor oil	Castor oil
Cedarwood oil	Cedarwood oil (China)
Cedarwood oil	Cedarwood oil (Texas)
Cedarwood oil	Cedarwood oil (Virginia)
Chitosan	Poly-D-glucosamine
Cinnamon	Cinnamon
Cinnamon oil	Cinnamon oil
Citric acid	2-Hydroxypropane-1,2,3-tricarboxylic acid
Citronella	Citronella
Citronella oil	Citronella oil
Cloves	Cloves
Clove oil	Clove oil
Corn gluten meal	Corn gluten meal
Corn oil	Corn oil
Cornmint	Cornmint
Cornmint oil	Cornmint oil
Cottonseed oil	Cottonseed
Dried blood	Dried blood
Eugenol	4-Allyl-2-methoxyphenol
Garlic	Garlic
Garlic oil	Garlic oil
Geraniol	(2E)-3,7-Dimethylocta-2,6-dien-1-ol
Geranium oil	Geranium oil
Lauryl sulfate	Lauryl sulfate
Lemongrass oil	Lemongrass oil
Linseed oil	Linseed oil
Malic acid	2-Hydroxybutanedioic acid
Peppermint	Peppermint
Peppermint oil	Peppermint oil
2-Phenylethyl propionate	2-Phenylethyl propionate
Potassium sorbate	Potassium (2E,4E)-hexa-2,4-dienoate
Putrescent whole egg solids	Putrescent whole egg solids
Rosemary	Rosemary
Rosemary oil	Rosemary oil
Sesame	Sesame
Sesame oil	Sesame oil
Sodium chloride	Sodium chloride
Sodium lauryl sulfate	Sulfuric acid monododecyl ester, sodium salt
Soybean oil	Soybean oil
Spearmint	Spearmint
Spearmint oil	Spearmint oil
Thyme	Thyme
Thyme oil	Thyme oil
White pepper	White pepper
Zinc	Zinc
Zinc metal strips (consisting solely of zinc metal and impurities).	

TABLE 2—INERT INGREDIENTS PERMITTED IN MINIMUM RISK PESTICIDE PRODUCTS

Label display name	Chemical name
Acetyl tributyl citrate	Citric acid, 2-(acetyloxy)-, tributyl ester
Agar	Agar
Almond hulls	Almond
Almond oil	Oils, almond
Almond shells	Almond shells
alpha-Cyclodextrin	alpha-Cyclodextrin
Aluminatesilicate	Aluminatesilicate
Aluminum magnesium silicate	Silicic acid, aluminum magnesium salt
Aluminum potassium sodium silicate	Silicic acid, aluminum potassium sodium
Aluminum silicate	Aluminum silicate
Aluminum sodium silicate	Silicic acid, aluminum sodium
Aluminum sodium silicate	Silicic acid (H ₄ SiO ₄), aluminum sodium salt (1:1:1)
Ammonium benzoate	Benzoic acid, ammonium salt
Ammonium stearate	Octadecanoic acid, ammonium
Amylopectin, acid-hydrolyzed, 1-octenylbutanedioate	Amylopectin, acid-hydrolyzed, 1-octenylbutanedioate
Amylopectin, hydrogen 1-octadecenylbutanedioate	Amylopectin, hydrogen 1-octadecenylbutanedioate
Animal glue	Animal glue
Ascorbyl palmitate	Ascorbyl palmitate
Attapulgate-type clay	Attapulgate-type clay
Beeswax	Beeswax
Bentonite	Bentonite
Bentonite, sodian	Bentonite, sodian
beta-Cyclodextrin	beta-Cyclodextrin
Bone meal	Bone meal
Bran	Bran
Bread crumbs	Bread crumbs
(+)-Butyl lactate	Lactic acid, n-butyl ester, (S)
Butyl lactate	Lactic acid, n-butyl ester
Butyl stearate	Octadecanoic acid, butyl ester
Calcareous shale	Calcareous shale
Calcite	Calcite (Ca(CO ₃))
Calcium acetate	Calcium acetate
Calcium acetate monohydrate	Acetic acid, calcium salt, monohydrate
Calcium benzoate	Benzoic acid, calcium salt
Calcium carbonate	Calcium carbonate
Calcium citrate	Citric acid, calcium salt
Calcium octanoate	Calcium octanoate
Calcium oxide silicate	Calcium oxide silicate (Ca ₃ O(SiO ₄))
Calcium silicate	Silicic acid, calcium salt
Calcium stearate	Octadecanoic acid, calcium salt
Calcium sulfate	Calcium sulfate
Calcium sulfate dihydrate	Calcium sulfate dihydrate
Calcium sulfate hemihydrate	Calcium sulfate hemihydrate
Canary seed	Canary seed
Carbon	Carbon
Carbon dioxide	Carbon dioxide
Carboxymethyl cellulose	Cellulose, carboxymethyl ether
Cardboard	Cardboard
Carnauba wax	Carnauba wax
Carob gum	Locust bean gum

Carrageenan	Carrageenan	
Caseins	Caseins	
Castor oil	Castor oil	
Castor oil, hydrogenated	Castor oil, hydrogenated	
Cat food	Cat food	
Cellulose	Cellulose	
Cellulose acetate	Cellulose acetate	
Cellulose, mixture with cellulosecarboxymethyl ether, sodium salt	Cellulose, mixture with cellulose	Cellulose, mixture with cellulose
carboxymethyl ether, sodium salt		
Cellulose, pulp	Cellulose, pulp	
Cellulose, regenerated	Cellulose, regenerated	
Cheese	Cheese	
Chlorophyll a	Chlorophyll a	
Chlorophyll b	Chlorophyll b	
Citric acid	Citric acid	
Citric acid, monohydrate	Citric acid, monohydrate	
Citrus meal	Citrus meal	
Citrus pectin	Citrus pectin	
Citrus pulp	Citrus pulp	
Clam shells	Clam shells	
Cocoa	Cocoa	
Cocoa shell flour	Cocoa shell flour	
Cocoa shells	Cocoa shells	
Cod-liver oil	Cod-liver oil	
Coffee grounds	Coffee grounds	
Cookies	Cookies	
Cork	Cork	
Corn cobs	Corn cobs	
Cotton	Cotton	
Cottonseed meal	Cottonseed meal	
Cracked wheat	Cracked wheat	
Decanoic acid, monoester with 1,2,3-propanetriol	Decanoic acid, monoester with 1,2,3-propanetriol	Decanoic acid, monoester with 1,2,3-propanetriol
Dextrins	Dextrins	
Diglyceryl monooleate	9-Octadecenoic acid, ester with 1,2,3-propanetriol	
Diglyceryl monostearate	9-Octadecanoic acid, monoester with oxybis(propanediol)	
Dilaurin	Dodecanoic acid, diester with 1,2,3-propanetriol	
Dipalmitin	Hexadecanoic acid, diester with 1,2,3-propanetriol	
Dipotassium citrate	Citric acid, dipotassium salt	
Disodium citrate	Citric acid, disodium salt	
Disodium sulfate decahydrate	Disodium sulfate decahydrate	
Diatomaceous earth	Kieselguhr; Diatomite (less than 1% crystalline silica)	
Dodecanoic acid, monoester with 1,2,3-propanetriol	Dodecanoic acid, monoester with 1,2,3-propanetriol	Dodecanoic acid, monoester with 1,2,3-propanetriol
Dolomite	Dolomite	
Douglas fir bark	Douglas fir bark	
Egg shells	Egg shells	
Eggs	Eggs	
(+)-Ethyl lactate	Lactic acid, ethyl ester, (S)	
Ethyl lactate	Lactic acid, ethyl ester	
Feldspar	Feldspar	
Ferric oxide	Iron oxide (Fe ₂ O ₃)	
Ferrous oxide	Iron oxide (FeO)	
Fish meal	Fish meal	
Fish oil	Fish oil	
Fuller's earth	Fuller's earth	

Fumaric acid	Fumaric acid
gamma-Cyclodextrin	gamma-Cyclodextrin
Gelatins	Gelatins
Gellan gum	Gellan gum
Glue	Glue (as depolymd. animal collagen)
Glycerin	1,2,3-Propanetriol
Glycerol monooleate	9-Octadecenoic acid (Z)-, 2,3-dihydroxypropyl ester
Glyceryl dicaprylate	Octanoic acid, diester with 1,2,3-propanetriol
Glyceryl dimyristate	Tetradecanoic acid, diester with 1,2,3-propanetriol
Glyceryl dioleate	9-Octadecenoic acid (9Z)-, diester with 1,2,3-propanetriol
Glyceryl distearate	Octadecanoic acid, diester with 1,2,3-propanetriol
Glyceryl monomyristate	Tetradecanoic acid, monoester with 1,2,3-propanetriol
Glyceryl monooctanoate	Octanoic acid, monoester with 1,2,3-propanetriol
Glyceryl monooleate	9-Octadecenoic acid (9Z)-, monoester with 1,2,3-propanetriol
Glyceryl monostearate	Octadecanoic acid, monoester with 1,2,3-propanetriol
Glyceryl stearate	Octadecanoic acid, ester with 1,2,3-propanetriol
Granite	Granite
Graphite	Graphite
Guar gum	Guar gum
Gum Arabic	Gum Arabic
Gum tragacanth	Gum tragacanth
Gypsum	Gypsum
Hematite	Hematite (Fe ₂ O ₃)
Humic acid	Humic acid
Hydrogenated cottonseed oil	Hydrogenated cottonseed oil
Hydrogenated rapeseed oil	Hydrogenated rapeseed oil
Hydrogenated soybean oil	Hydrogenated soybean oil
Hydroxyethyl cellulose	Cellulose, 2-hydroxyethyl ether
Hydroxypropyl cellulose	Cellulose, 2-hydroxypropyl ether
Hydroxypropyl methyl cellulose	Cellulose, 2-hydroxypropyl methyl ether
Iron magnesium oxide	Iron magnesium oxide (Fe ₂ MgO ₄)
Iron oxide, hydrate	Iron oxide (Fe ₂ O ₃), hydrate
Iron oxide	Iron oxide (Fe ₃ O ₄)
Isopropyl alcohol	2-Propanol
Isopropyl myristate	Isopropyl myristate
Kaolin	Kaolin
Lactose	Lactose
Lactose monohydrate	Lactose monohydrate
Lanolin	Lanolin
Latex rubber	Latex rubber
Lauric acid	Lauric acid
Lecithins	Lecithins
Licorice extract	Licorice extract
Lime dolomitic	Lime (chemical) dolomitic
Limestone	Limestone
Linseed oil	Linseed oil
Magnesium carbonate	Carbonic acid, magnesium salt (1:1)
Magnesium benzoate	Magnesium benzoate
Magnesium oxide	Magnesium oxide
Magnesium oxide silicate	Magnesium oxide silicate (Mg ₃ O(Si ₂ O ₅) ₂), monohydrate
Magnesium silicate	Magnesium silicate
Magnesium silicate hydrate	Magnesium silicate hydrate
Magnesium silicon oxide	Magnesium silicon oxide (Mg ₂ Si ₃ O ₈)
Magnesium stearate	Octadecanoic acid, magnesium salt

Magnesium sulfate	Magnesium sulfate
Magnesium sulfate heptahydrate	Magnesium sulfate heptahydrate
Malic acid	Malic acid
Malt extract	Malt extract
Malt flavor	Malt flavor
Maltodextrin	Maltodextrin
Methylcellulose	Cellulose, methyl ether
Mica	Mica
Mica-group minerals	Mica-group minerals
Milk	Milk
Millet seed	Millet seed
Mineral oil	Mineral oil (U.S.P.)
1-Monolaurin	Dodecanoic acid, 2,3-dihydroxypropyl ester
1-Monomyristin	Tetradecanoic acid, 2,3-dihydroxypropyl ester
Monomyristin	Decanoic acid, diester with 1,2,3-propanetriol
Monopalmitin	Hexadecanoic acid, monoester with 1,2,3-propanetriol
Monopotassium citrate	Citric acid, monopotassium salt
Monosodium citrate	Citric acid, monosodium salt
Montmorillonite	Montmorillonite
Myristic acid	Myristic acid
Nepheline syenite	Nepheline syenite
Nitrogen	Nitrogen
Nutria meat	Nutria meat
Nylon	Nylon
Octanoic acid, potassium salt	Octanoic acid, potassium salt
Octanoic acid, sodium salt	Octanoic acid, sodium salt
Oleic acid	Oleic acid
Oyster shells	Oyster shells
Palm oil	Palm oil
Palm oil, hydrogenated	Palm oil, hydrogenated
Palmitic acid	Hexadecanoic acid
Paper	Paper
Paraffin wax	Paraffin wax
Peanut butter	Peanut butter
Peanut shells	Peanut shells
Peanuts	Peanuts
Peat moss	Peat moss
Pectin	Pectin
Perlite	Perlite
Perlite, expanded	Perlite, expanded
Plaster of paris	Plaster of paris
Polyethylene	Polyethylene
Polyglyceryl oleate	Polyglyceryl oleate
Polyglyceryl stearate	Polyglyceryl stearate
Potassium acetate	Acetic acid, potassium salt
Potassium aluminum silicate, anhydrous	Potassium aluminum silicate, anhydrous
Potassium benzoate	Benzoic acid, potassium salt
Potassium bicarbonate	Carbonic acid, monopotassium salt
Potassium chloride	Potassium chloride
Potassium citrate	Citric acid, potassium salt
Potassium humate	Humic acids, potassium salts
Potassium myristate	Tetradecanoic acid, potassium salt
Potassium oleate	9-Octadecenoic acid (9Z)-, potassium salt
Potassium ricinoleate	9-Octadecenoic acid, 12-hydroxy-, monopotassium salt

Potassium sorbate	Sorbic acid, potassium salt
Potassium stearate	Octadecanoic acid, potassium salt
Potassium sulfate	Potassium sulfate
Potassium sulfate	Sulfuric acid, monopotassium salt
1,2-Propylene carbonate	1,3-Dioxolan-2-one, 4-methyl-
Pumice	Pumice
Red cabbage color	Red cabbage color (expressed from edible red cabbage heads via a pressing process using only acidified water).
Red cedar chips	Red cedar chips
Red dog flour	Red dog flour
Rubber	Rubber
Sawdust	Sawdust
Shale	Shale
Silica, amorphous, fumed	Silica, amorphous, fumed (crystalline free)
Silica, amorphous, precipitate and gel	Silica, amorphous, precipitate and gel
Silica	Silica (crystalline free)
Silica gel	Silica gel
Silica gel, precipitated, crystalline free	Silica gel, precipitated, crystalline-free
Silica, hydrate	Silica, hydrate
Silica, vitreous	Silica, vitreous
Silicic acid, magnesium salt	Silicic acid (H ₂ SiO ₃), magnesium salt (1:1)
Soap	Soap (The water soluble sodium or potassium salts of fatty acids produced by either the saponification of fats and oils, or the neutralization of fatty acid).
Soapbark	Quillaja saponin
Soapstone	Soapstone
Sodium acetate	Acetic acid, sodium salt
Sodium alginate	Sodium alginate
Sodium benzoate	Benzoic acid, sodium salt
Sodium bicarbonate	Sodium bicarbonate
Sodium carboxymethyl cellulose	Cellulose, carboxymethyl ether, sodium salt
Sodium chloride	Sodium chloride
Sodium citrate	Sodium citrate
Sodium humate	Humic acids, sodium salts
Sodium oleate	Sodium oleate
Sodium ricinoleate	9-Octadecenoic acid, 12-hydroxy-, monosodium salt, (9Z,12R)
Sodium stearate	Octadecanoic acid, sodium salt
Sodium sulfate	Sodium sulfate
Sorbitol	D-glucitol
Soy protein	Soy protein
Soya lecithins	Lecithins, soya
Soybean hulls	Soybean hulls
Soybean meal	Soybean meal
Soybean, flour	Soybean, flour
Stearic acid	Octadecanoic acid
Sulfur	Sulfur
Syrups, hydrolyzed starch, hydrogenated	Syrups, hydrolyzed starch, hydrogenated
Tetraglycerol monooleate	9-Octadecenoic acid (9Z)-, monoester with tetraglycerol
Tricalcium citrate	Citric acid, calcium salt (2:3)
Triethyl citrate	Citric acid, triethyl ester
Tripotassium citrate	Citric acid, tripotassium salt
Tripotassium citrate monohydrate	Citric acid, tripotassium salt, monohydrate
Trisodium citrate	Citric acid, trisodium salt
Trisodium citrate dihydrate	Citric acid, trisodium salt, dihydrate
Trisodium citrate pentahydrate	Citric acid, trisodium salt, pentahydrate

Ultramarine blue	C.I. Pigment Blue 29
Urea	Urea
Vanillin	Benzaldehyde, 4-hydroxy-3-methoxy-
Vermiculite	Vermiculite
Vinegar	Vinegar (maximum 8% acetic acid in solution)
Vitamin C	L-Ascorbic acid
Vitamin E	Vitamin E
Walnut flour	Walnut flour
Walnut shells	Walnut shells
Wheat	Wheat
Wheat flour	Wheat flour
Wheat germ oil	Wheat germ oil
Wheat oil	Oils, wheat
Whey	Whey
White mineral oil	White mineral oil (petroleum)
Wintergreen oil	Wintergreen oil
Wollastonite	Wollastonite (Ca(SiO ₃))
Wool	Wool
Xanthan gum	Xanthan gum
Yeast	Yeast
Zeolites	Zeolites (excluding erionite (CAS Reg. No. 66733–21–9))
Zeolites, NaA	Zeolites, NaA
Zinc iron oxide	Zinc iron oxide
Zinc oxide	Zinc oxide (ZnO)
Zinc stearate	Octadecanoic acid, zinc salt

NEW DOCUMENT REFERENCE – FIFRA LIST 4A

U.S. Environmental Protection Agency - Office of Pesticide Programs

List of Inert Pesticide Ingredients

List 4A - Minimal Risk Inert Ingredients - By Chemical Name

Updated August 2004 Inert Ingredients Ordered Alphabetically by Chemical Name - List

Acetic acid
calcium salt
Acetic acid
potassium salt
Acetic acid, sodium salt
Almond oil
Aluminum magnesium silicate
Aluminum potassium silicate
Animal feed items conforming to 40 CFR 180.950(b)
Animal glue
Ascorbic acid
Ascorbyl palmitate
Beeswax
Bentonite
Bentonite, sodian
Benzoic acid, ammonium salt
Benzoic acid, calcium salt
Benzoic acid, magnesium salt 2
Benzoic acid, potassium salt
Benzoic acid, sodium salt
Bone meal
Butyl stearate
Calcium acetate, monohydrate
Calcium carbonate
6107-56-8
Calcium octanoate
Calcium oxide silicate (Ca₃O(SiO₄))
Calcium sulfate, dihydrate
Calcium sulfate, hemihydrate
Cane syrup
Canola oil
Carbon
Carbonic acid, calcium salt (calcite)
Carbonic acid, magnesium salt (1:1)
Carbonic acid, monopotassium salt
Carbonic acid, monosodium salt
Cardboard
Carnauba wax
Carob gum (locust bean gum)
Carrageenan
Castor oil
Castor oil, hydrogenated
Cat food
Cellulose Cellulose acetate
Cellulose carboxy methyl ether, sodium salt
Cellulose, 2-hydroxyethyl ether
Cellulose, 2-hydroxypropyl ether

Cellulose, 2-hydroxypropyl methyl ester
Cellulose, carboxymethyl ether
Cellulose, methyl ether
Cellulose, mixture with cellulose carboxymethyl ether, 51395-75-6 sodium salt
Cellulose, pulp
Cellulose, regenerated
Citric acid
Citric acid, calcium salt (2:3)
Citric acid, calcium salt (2:3)
Citric acid, dipotassium salt
Citric acid, disodium salt
Citric acid, monohydrate
Citric acid, monopotassium salt
Citric acid, monosodium salt
Citric acid, potassium salt
Citric acid, sodium salt
Citric acid, tripotassium salt
Citric acid, tripotassium salt, monohydrate
Citric acid, trisodium salt
Citric acid, trisodium salt, dihydrate
Citric acid, trisodium salt, pentahydrate
Citrus pulp, orange
Clam shells
Cocoa Coconut oil
Coffee grounds
Commonly consumed food commodities conforming to 40 CFR 180.950(a)
Cork
Corn flour
Corn oil
Corn syrup
Corn syrup solids
Cornstarch Cotton
Cottonseed meal
Cottonseed oil
Decanoic acid, diester with 1,2,3-propanetriol (9CI)
Decanoic acid, monoester with 1,2,3-propanetriol
Dextrins
Dextrose
Diatomaceous earth (less than 1% crystalline silica)
Dodecanoic acid
Dodecanoic acid, 2,3-dihydroxypropyl ester
Dodecanoic acid, diester with 1,2,3-propanetriol (9CI)
Dodecanoic acid, monoester with 1,2,3-propanetriol (9CI)
Dolomite (CaMg(CO₃)₂)
Douglas fir barkEdible fats and oils conforming to 40 CFR 180.950(c)
Egg shells
Feldspar group minerals
Fish oil
Fuller's earth
Fumaric acid
Gellan gum (tolerance pending approval)
Glue (as depolymerized animal collagen)
Glycerol (glycerin) 1,2,3 propanetriol
Graphite
Guar gum

Gypsum
Hematite (Fe₂O₃)
Hexadecanoic acid
Hexadecanoic acid, diester with 1,2,3-propanetriol (9CI)
Hexadecanoic acid, monoester with 1,2,3-propanetriol
Honey
Humic acid, potassium salt
Humic acid, sodium salt
Hydrogenated cottonseed oil
Hydrogenated palm oils
Hydrogenated rapeseed oil
Hydrogenated soybean oil
Invert sugar
Iron magnesium oxide (Fe₂MgO₄)
Iron oxide (Fe₃O₄)
Iron oxide (Fe₂O₃)
Iron oxide (Fe₂O₃), hydrate
Iron oxide (FeO)
Isopropyl myristate
Kaolin
Lactic acid, ethyl ester
Lactic acid, n-butyl ester D-63-42-3 (+)-
Lactose
Lactose, monohydrate
Lanolin
Lard
Lecithins
Lecithins, soya
Licorice extract
Lime (chemical) dolomitic
Limestone
Linseed oil (unboiled)
Magnesium oxide
Magnesium oxide silicate (Mg₃O(Si₂O₅)₂), monohydrate
Magnesium silicate, hydrate
Magnesium silicon oxide (Mg₂Si₃O₈)
Magnesium sulfate heptahydrate
Malic acid
Malt extract
Maltodextrin
Meat meal
Mica
Mica group minerals
Molasses
Montmorillonite
Mullite
Nepheline syenite
Nitrogen
Oat protein
Octadecanoic acid (9Z)-, monoester with 1,2,3 propanetriol
Octadecanoic acid, ammonium salt
Octadecanoic acid, calcium salt
Octadecanoic acid, magnesium salt
Octadecanoic acid, monoester with oxybis (propanediol)
Octadecanoic acid, potassium salt

Octadecanoic acid, sodium salt
Octadecanoic acid, zinc salt
Octadecenoic acid (Z)-, 2,3-dihydroxypropyl ester (9CI)
Octadecenoic acid (9Z)-, potassium salt
Octadecenoic acid (9Z)-, sodium salt
Octadecenoic acid, 12-hydroxy-, monopotassium salt
Octadecenoic acid, 12-hydroxy-, monosodium salt
Octadecenoic acid, ester with 1,2,3-propanetriol
Octadecenoic acid, monoester with tetraglycerol
Octanoic acid, diester with 1,2,3-propanetriol
Octanoic acid, monoester with 1,2,3-propanetriol
Octanoic acid, sodium salt
Octodecanoic acid, diester with 1,2,3-propanetriol (9CI)
Oils, wheat
Oleic acid
Olive oil Oyster shells
Palm oil Paper
Paprika
Paraffin wax
Peanut oil
Peat moss
Perlite
Perlite, expanded
Plaster of Paris
Polyethylene
Potassium bisulfate
Potassium chloride
Potassium octoate
Potassium sorbate
1,2,3- (9Z)-9-octadecenoate
1,2,3-Propanetriol, homopolymer, octadecanoate
Pumice
Rice bran oil
Rubber
Safflower oil Sawdust
Sesame seed oil
Silica Gel
Silica gel, precipitated, crystalline-free
Silica, amorphous, fumed (crystalline free)
Silica, amorphous, precipitated and gel
Silica, hydrate
Silica, vitreous
Silicic acid (H₂SiO₃), magnesium salt (1:1)
Silicic acid (H₄SiO₄), aluminum sodium salt (1:1:1)
Silicic acid, aluminum potassium sodium salt
Silicic acid, aluminum salt
Silicic acid, aluminum sodium salt
Silicic acid, calcium salt
Silicic acid, magnesium salt
Silicon dioxide (crystalline-free forms only)
Soapbark (Quillaja saponin)
Sodium alginate
Sodium chloride
Sorbitol
Soybean oi
Sperm oil
Stearic acid
Sugar
Sulfur
Sulfuric acid, calcium salt (1:1)
Sulfuric acid, dipotassium salt
Sulfuric acid, disodium salt

Sulfuric acid, disodium salt, decahydrate
Sulfuric acid, magnesium salt (1:1)
Sunflower seeds
Tallow
Tetradecanoic acid
Tetradecanoic acid, 2,3-dihydroxypropyl ester
Tetradecanoic acid, diester with 1,2,3-propanetriol (9CI)
Tetradecanoic acid, monoester with 1,2,3-propanetriol (9CI 4A)
Tetradecanoic acid, potassium salt 4A
Urea 4A
Vanillin 4A
Vermiculite 4A Vinegar (maximum of 8% acetic acid in solution) 4A
Vitamin E
Water
Wheat germ oil
White mineral oil (petroleum)
Wintergreen oil
Wollastonite (Ca(SiO₃))
Xanthan gum
Yeast

NEW REFERENCE DOCUMENT - OMRI

OMRI - CROPS PRODUCTION MATERIALS LIST

1, 4-Dimethylnaphthalene: Prohibited:
3-Decen-2-one: Prohibited,
Acetic Acid: Allowed
Acetic Acid: Allowed With Restrictions:
Acetic Acid: Prohibited:
Acid Activators for Chlorine Dioxide: Allowed With Restrictions
Activated Charcoal: Allowed
Adjuvants: Prohibited
Adjuvants, for use in crop pesticides: Allowed With Restrictions
Adjuvants, for use in fertilizers and soil amendments: Allowed
Adjuvants, for use in passive pheromone dispensers: Allowed With Restrictions
Alcohol: Allowed
Alcohol, Ethyl (Ethanol): Allowed With Restrictions
Alcohol, Ethyl (Ethanol): Allowed With Restrictions
Alcohol, Isopropyl (Isopropanol): Allowed With Restrictions
Alcohol, Isopropyl (Isopropanol) Allowed With Restrictions
Alfalfa Meal or Pellets: Allowed
Algae: See AQUATIC PLANT PRODUCTS.
Almond Hull Trash: See PLANTS.
Aloe Extract: See PLANT EXTRACTS.
Amino Acids: Allowed
Amino Acids: Prohibited
Ammonia Products: Prohibited
Ammoniated Products: Prohibited
Ammonium Carbonate: Allowed With Restrictions
Ammonium Nonanoate: See SOAP, AMMONIUM.
Anaerobic Digestate, from manure feedstock: Allowed With Restrictions
Anaerobic Digestate, without manure feedstock: Allowed
Animal By-products: Allowed
Animal By-products: Prohibited
Antibiotics: Prohibited
Anti-coagulants: Prohibited
Aquatic Plant Products: Allowed
Aquatic Plant Products: Prohibited
Aquatic Plant Products, synthetically extracted: Allowed
Arsenate-treated Lumber: Prohibited
Arsenic: Prohibited
Arthropods: See BIOLOGICAL CONTROLS; PREDATORS & PARASITES.
Ascorbic Acid (Vitamin C): Allowed
Ascorbic Acid (Vitamin C): Allowed
Ash, manure: Prohibited
Ash, plant or animal: Allowed
Ash, wood: Allowed
Attapulgitic Clay: See CLAY.
Avermectin: Prohibited
Azadirachta Indica: See BOTANICAL PESTICIDES; NEEM AND NEEM DERIVATIVES.
Bacillus thuringiensis: Allowed With Restrictions
Bacterial Preparations: See MICROBIOLOGICAL PREPARATIONS.

Bactericides: Prohibited
Bark: Allowed
Basalt: Allowed
Basic Slag: Prohibited
Beauveria spp.: Allowed With Restrictions
Beeswax: Allowed
Bentonite: See REPELLENTS.
Bentonite: Allowed
Biochar: Allowed
Biodynamic Preparations: Allowed
Biodynamic Preparations, with Manure: Allowed With Restrictions
Biological Controls: Allowed
Biopesticides Allowed With Restrictions
Bioplastics: Prohibited
Biosolids: See SEWAGE SLUDGE.
Biotite: Allowed
Bird Baits: Prohibited
Bleach: See CHLORINE MATERIALS.
Blood Meal: Allowed
Bone Char: Allowed
Bone Meal: Allowed
Borates: Allowed
Borates: Allowed With Restrictions
Borax (Sodium Tetraborate): Allowed
Bordeaux Mixes: Allowed With Restrictions
Boric Acid: Allowed With Restrictions
Boric Acid Products: See BORON PRODUCTS.
Boron Products: Allowed With Restrictions
Boron Products: Prohibited
Botanical Pesticides: Allowed With Restrictions
Calcium: Allowed
Calcium: Prohibited
Calcium Carbide: Prohibited
Calcium Carbonate: Allowed
Calcium Chloride: Allowed With Restrictions
Calcium Hydroxide: See HYDRATED LIME.
Calcium Hydroxide: See HYDRATED LIME.
Calcium Hypochlorite: Allowed With Restrictions
Calcium Lignosulfonate: See LIGNIN SULFONATES.
Calcium Nitrate: Prohibited
Calcium Oxide: Prohibited
Calcium Polysulfide: Allowed With Restrictions
Calcium Sulfate: Allowed
Calcium Sulfate: Prohibited
Cannery Wastes & Cannery Waste Water: Allowed
Capsaicin: See PLANT EXTRACTS.
Captan: Prohibited
Carbamates: Prohibited
Carbon Dioxide: Allowed
Carbon Monoxide (Exhaust Gas): Prohibited
Cardboard: Allowed
Cardboard: Allowed With Restrictions
Cardboard, Fungicide Impregnated: Prohibited
Carnauba Wax: Allowed
Carriers: See ADJUVANTS, FOR USE IN FERTILIZERS AND SOIL AMENDMENTS.

Carrot Oils: Prohibited
Castor Oil: See OILS.
Chalk: Allowed
Cheesewax, Microcrystalline: Allowed With Restrictions
Chelating Agents: Allowed
Chelating Agents: Prohibited
Chilean Nitrate: See SODIUM NITRATE (CHILEAN NITRATE).
Chitin: Allowed
Chitin: Allowed With Restrictions
Chitosan: Prohibited
Chlorinated Hydrocarbons: Prohibited
Chlorine Dioxide: Allowed With Restrictions
Chlorine Materials: Allowed With Restrictions
Cholecalciferol (Vitamin D3): See VITAMIN D3.
Citric Acid: Allowed
Citrus Products: Allowed With Restrictions
Clay: Allowed
Cobalt Products: Allowed With Restrictions
Cocoa Bean Hulls: Allowed
Coconut Fiber: Allowed
Coffee Grounds: See REPELLENTS.
Coffee Grounds: Allowed
Cold Pasteurization: Prohibited
Compost: See specific COMPOST listings.
Compost Inoculants: Allowed
Compost Tea: Prohibited
Compost Tea, from composted manure feedstock: Allowed With Restrictions
Compost Tea, from raw or uncomposted manure feedstock: See MANURE TEA.
Compost Tea, without manure feedstock: Allowed
Compost Tea, without manure feedstock: Allowed
Compost, in-vessel or static aerated pile (plant and animal materials): Allowed
Compost, mushroom media waste: Allowed
Compost, other (plant and animal materials): Allowed
Compost, plant materials: Allowed
Compost, windrow (plant and animal materials): Allowed
Compost, with prohibited substances: Prohibited
Copper: Prohibited
Copper Chromium Arsenate (CCA): Prohibited
Copper Hydroxide: See COPPERS, FIXED.
Copper Products: Allowed With Restrictions
Copper Salts: See COPPERS, FIXED.
Copper Sulfate: See COPPER PRODUCTS.
Copper Sulfate: Allowed With Restrictions
Coppers, fixed: Allowed With Restrictions
Corn Gluten: Allowed
Corn Gluten: Allowed With Restrictions
Cotton Gin Trash: Allowed
Cottonseed Meal: Allowed
Crab/Crustacean Meal: Allowed
Creosote: Prohibited
Crop Residues: See PLANTS.
Cryolite: See SODIUM FLUOALUMINATE.
Cytokinins: Allowed With Restrictions
Dairy Products: Allowed
Derris Root: Prohibited

Diatomaceous Earth: Allowed
Diatomaceous Earth: Allowed With Restrictions
Dolomite, fired: See MAGNESIUM OXIDE.
Dolomite, mined Allowed
Dolomite, slaked: Prohibited
Dormant Oils: Allowed With Restrictions
Drip Irrigation Cleaners: Allowed
Drip Irrigation Cleaners: Allowed With Restrictions
Drip Irrigation Cleaners: Prohibited
Dust Suppressants: Allowed
Dust Suppressants: Prohibited
Eggshell Meal: Allowed
Elemental Sulfur: Allowed
Elemental Sulfur: Allowed With Restrictions
Elemental Sulfur: Allowed With Restrictions
Enzymes: Allowed
Epsom Salts: Allowed
Equipment Cleaners for Farms: See CHLORINE MATERIALS; HYDROGEN PEROXIDE; PERACETIC ACID/PEROXYACETIC ACID.
Equipment Cleaners for Farms: Prohibited
Ethoxyquin: Prohibited
Ethylene Gas: Allowed With Restrictions
Exhaust Fumes: See CARBON MONOXIDE (EXHAUST GAS).
Fatty Alcohols: Allowed With Restrictions
Feather Meal: Allowed
Feldspar: Allowed
Fermentation Products: Allowed
Fermentation Products: Allowed With Restrictions
Ferric and Ferrous Compounds: See IRON PRODUCTS.
Ferric and Ferrous Compounds: Prohibited
Ferric Phosphate: Allowed With Restrictions
Fertilizers and Soil Amendments, Blended: Allowed
Fertilizers and Soil Amendments, Blended: Allowed With Restrictions
Fertilizers and Soil Amendments, Blended: Prohibited
Fertilizers, Blended with micronutrients: Allowed With Restrictions
Fertilizers, Blended with sodium nitrate: Allowed With Restrictions
Fertilizers, Blended with synthetic magnesium sulfate: Allowed With Restrictions
Fertilizers, Blended with uncomposted manure: Allowed With Restrictions
Fertilizers, with high ammoniacal nitrogen: Allowed With Restrictions
Fiber Row Covers: See MULCH, PLASTIC.
Fish Meal and Powder: Allowed
Fish Products: Allowed
Fish Products: Prohibited
Fish Products, Liquid, Stabilized: Allowed
Fish Products, Multi-ingredient: Allowed
Food Processing By-products: Allowed
Formaldehyde: Prohibited
Fuller's Earth: See CLAY.
Fulvic Acids: Allowed
Fungal Herbicides: Allowed With Restrictions
Fungal Preparations: See PLANT DISEASE CONTROLS.
Fungal Preparations: Allowed
Fungicides: Allowed With Restrictions
Fungicides: Prohibited
Fur: Allowed

Garlic: Allowed With Restrictions
Genetically Modified Organisms: Prohibited
Gibberellic Acid: Allowed With Restrictions
Gluconic Acid: Allowed
Glycerine Oleate: Prohibited
Glyphosate: Prohibited
Grafting Wax: Allowed With Restrictions
Granite Dust: Allowed
Green Manure: Allowed
Greensand (glaucanite): Allowed
Growth Regulators for Plants: Allowed With Restrictions
Growth Regulators for Plants: Prohibited
Guano, bat or bird: Allowed With Restrictions
Gums: Allowed
Gypsum By-products: Prohibited
Gypsum, mined source: Allowed
Hair: Allowed
Herbicides: Allowed With Restrictions
Herbicides: Prohibited
Homeopathic Preparations: Allowed
Hoof and Horn Meal: Allowed
Hormones: See GROWTH REGULATORS FOR PLANTS.
Horticultural Oils: See OILS.
Horticultural Oils: See OILS.
Horticultural Oils: Prohibited
Human Excrement: Prohibited
Humates: Allowed
Humic Acid Derivatives, Fortified: Prohibited
Humic Acid Starting Materials: Allowed With Restrictions
Humic Acids: Allowed
Humic Acids – alkali extracted: Allowed
Hydrated Lime: Allowed With Restrictions
Hydrated Lime: Prohibited
Hydrochloric Acid (Muriatic): Prohibited
Hydrogen Chloride: Allowed With Restrictions
Hydrogen Peroxide: Allowed With Restrictions
Hydrogen Peroxide: Allowed With Restrictions
Hydrogen Peroxide: Prohibited
Hydrogen Peroxide Starting Materials: Allowed With Restrictions
Hydroponic growing media: Allowed
Hydroponic growing media: Prohibited
Hypochlorous Acid: Allowed With Restrictions
Indole-3-butylic Acid (IBA): Prohibited
Inerts: Allowed
Inerts, List 3: See INERTS, LISTS 1, 2 & 3; ADJUVANTS, FOR USE IN PASSIVE PHEROMONE DISPENSERS.
Inerts, List 4: See ADJUVANTS, FOR USE IN CROP PESTICIDES.
Inerts, Lists 1, 2 & 3: Prohibited
Inoculants: Allowed
Insect Extracts: See REPELLENTS.
Insect Frass: Allowed
Insect Frass: Allowed With Restrictions
Insects: See BIOLOGICAL CONTROLS; PREDATORS & PARASITES.
Ionizing Radiation: Prohibited
Iron Phosphate: See FERRIC PHOSPHATE.
Iron Products: Allowed With Restrictions

Iron Products: Prohibited
Iron Sulfates: See IRON PRODUCTS.
Kainite: See POTASSIUM CHLORIDE; POTASSIUM SULFATE.
Kaolin Clay: See CLAY.
Kelp Extracts: See AQUATIC PLANT PRODUCTS; AQUATIC PLANT PRODUCTS, SYNTHETICALLY EXTRACTED.
Kelp Meal: Allowed
Kelp, unprocessed: Allowed
Kieserite: Allowed
Killed Microbial Pesticides: Prohibited
Kiln Dust: Prohibited
Lactic Acid: Allowed
Lactose: Allowed
Langbeinite: See SULFATE OF POTASH MAGNESIA.
Lead Salts: Prohibited
Leaf Mold: Allowed
Leather By-products: Prohibited
Lecithin: Allowed
Lecithin: Prohibited
Leonardite: See HUMATES.
Lignin Sulfonates: Allowed With Restrictions
Lignite: See HUMATES.
Lime Mud: Prohibited
Lime Sulfur: Allowed With Restrictions
Lime, hydrated: See HYDRATED LIME.
Limestone: See REPELLENTS.
Limestone: Allowed
Limonene: Allowed With Restrictions
Lye: Prohibited
Magnesium Carbonate: Allowed
Magnesium Chloride: Allowed
Magnesium Dihydrogen Phosphite Monohydrate: Prohibited
Magnesium Oxide: Allowed With Restrictions
Magnesium Rock: Allowed
Magnesium Sulfate: Allowed
Magnesium Sulfate: Allowed With Restrictions
Magnetite: See MINED MINERALS, UNPROCESSED.
Maltodextrin: Allowed
Manganese Products: Allowed With Restrictions
Manganese Products: Prohibited
Manure Tea: Allowed With Restrictions
Manure, composted: See COMPOST listings.
Manure, processed: Allowed
Manure, processed, rehydrated: Allowed
Manure, raw, uncomposted: Allowed With Restrictions
Marl: Allowed
Meat By-products and Waste: Allowed
Meat Meal: Allowed
Methyl Bromide: Prohibited
Mica: Allowed
Microbial Inoculants: Allowed
Microbial Pesticides: Allowed With Restrictions
Microbial Products: Allowed
Microbial Products: Allowed With Restrictions
Microbial Products: Allowed With Restrictions
Microbial Products: Prohibited

Microbial Products, with manure: Allowed With Restrictions
Microbiological Preparations: Allowed
Micronutrients: See also MOLYBDENUM PRODUCTS; MANGANESE PRODUCTS; IRON PRODUCTS; BORON PRODUCTS; COBALT PRODUCTS; COPPER PRODUCTS; ZINC PRODUCTS; SELENIUM PRODUCTS.
Micronutrients: Prohibited
Milk: See PLANT DISEASE CONTROLS.
Milk: Allowed
Mined Minerals, unprocessed: Allowed
Mined Minerals, unprocessed: Allowed With Restrictions
Mined Substances of High Solubility See CALCIUM CHLORIDE; MINED MINERALS, UNPROCESSED; POTASSIUM CHLORIDE; SODIUM NITRATE (CHILEAN NITRATE).
Mined Substances of Low Solubility: See MINED MINERALS, UNPROCESSED.
Mineral Inputs: Prohibited
Mineral Oil: See OILS, HORTICULTURAL.
Molasses: Allowed
Molybdenum Products: Allowed With Restrictions
Molybdic Oxide: See MOLYBDENUM PRODUCTS.
Monocalcium Phosphate: Prohibited
Montmorillonite Clay: See CLAY.
Moth Balls/Crystals: Prohibited
Mulch, Biodegradable, Biobased Film: Allowed
Mulch, for use as a crop fertilizer or soil amendment: Allowed
Mulch, for use as crop weed control: Allowed
Mulch, Paper: See PAPER.
Mulch, Plastic: Allowed With Restrictions
Muriate of Potash: See MINED MINERALS, UNPROCESSED; POTASSIUM CHLORIDE.
Mushroom Media Waste: Allowed
Mushroom Media Waste, with manure: Allowed With Restrictions
Mycorrhizae: Allowed
Nanomaterials, engineered: Prohibited
Natural Acids: Allowed
Natural Acids: Allowed With Restrictions
Neem and Neem Derivatives: Allowed
Neem and Neem Derivatives: Allowed With Restrictions
Nematicides: Allowed With Restrictions
Nematodes: See BIOLOGICAL CONTROLS.
Newspaper or other recycled paper: Allowed With Restrictions
Newspaper or other recycled paper: Allowed With Restrictions
Nickel Salts: Prohibited
Nicotine: Prohibited
Niter: See POTASSIUM NITRATE.
Nitrate of Soda-Potash: Prohibited
Odor Control Products: Allowed
Oils: Allowed
Oils: Allowed With Restrictions
Oils, Horticultural: Allowed With Restrictions
Oils, Horticultural: Prohibited
Organophosphates: Prohibited
Oxidized Lignite: Prohibited
Oyster Shell Lime: Allowed
Ozone Gas: Allowed With Restrictions
Paper: See NEWSPAPER OR OTHER RECYCLED PAPER.
Paper-Based Crop Planting Aid: Allowed
Peanut Meal: Allowed
Peat Moss: Allowed

Pelargonic Acid: Prohibited
Pentachlorophenol: Prohibited
Peracetic Acid/Peroxyacetic Acid: Allowed With Restrictions
Peracetic Acid/Peroxyacetic Acid: Allowed With Restrictions
Perlite: Allowed
Permanganate of Potash: Prohibited
Pesticides: Prohibited
Petroleum Distillates: See OILS, HORTICULTURAL.
pH Buffers: Allowed
Pheromones: Allowed With Restrictions
Phosphate Rock: Allowed
Phosphoric Acid: Allowed With Restrictions
Physical Methods: Allowed
Pine Resins: See PLANT EXTRACTS.
Piperonyl Butoxide: Prohibited
Plant Disease Controls: Allowed
Plant Extracts: Allowed
Plant Pesticides: See BOTANICAL PESTICIDES.
Plant Preparations: Allowed
Plant Protectants: Allowed
Plant Protectants: Prohibited
Plant-derived Pesticides: See BOTANICAL PESTICIDES.
Plants: Allowed
Plastic Mulches and Covers: See MULCH, PLASTIC.
Pollinator Attractants: Allowed
Polyethylene Glycol: Prohibited
Polyoxin D Zinc Salt: Allowed With Restrictions
Pomace: Allowed
Potassium Bicarbonate: Allowed With Restrictions
Potassium Carbonate: Prohibited
Potassium Chloride: Allowed With Restrictions
Potassium Hydroxide: Allowed With Restrictions
Potassium Hypochlorite: Allowed With Restrictions
Potassium Nitrate: Prohibited
Potassium Permanganate: Prohibited
Potassium Silicate: Prohibited
Potassium Silicate, aqueous: Allowed With Restrictions
Potassium Sulfate: Allowed
Potassium Sulfate: Prohibited
Potting Soil: Allowed
Potting Soil: Allowed With Restrictions
Predators & Parasites: Allowed
Pressure-treated Lumber: See ARSENATETREATED LUMBER.
Pressure-treated Lumber: Prohibited
Propane: Prohibited
Propolis: Allowed
Propylene Glycol Monolaurate (PGML): Prohibited
Pseudomonas spp.: Allowed With Restrictions
Pulverized Rock: Allowed
Pumice: Allowed
Pyrethroids: Prohibited
Pyrethrum: Allowed With Restrictions
Quassia amara: Allowed With Restrictions
Quick Lime: See CALCIUM OXIDE.
Repellents: Allowed

Repellents: Allowed With Restrictions
Rhizobium bacteria: Allowed
Rice Hulls: See PLANTS.
Rock Dust: Allowed
Rockwool: Prohibited
Rotenone: Prohibited
Row Covers: Allowed With Restrictions
Ryania: Allowed With Restrictions
Sabadilla: Allowed With Restrictions
Salt: See SODIUM CHLORIDE.
Saltpeter: See POTASSIUM NITRATE.
Sand: Allowed
Saponins: Allowed
Sawdust: Allowed
Sea Salt: Allowed
Sea Salt Allowed: With Restrictions
Seaweed and Seaweed Products: Allowed
Seed Treatments: Allowed
Seed Treatments: Allowed With Restrictions
Seed Treatments: See CHLORINE MATERIALS; PERACETIC ACID/PEROXYACETIC ACID; HYDROGEN PEROXIDE.
Seed Treatments: Allowed With Restrictions
Seed Treatments: Prohibited
Selenium Products: Allowed With Restrictions
Semiochemicals: Allowed
Sewage Sludge: Prohibited
Shellfish Meal: Allowed
Silica: Prohibited
Slaked Lime: See HYDRATED LIME.
Slurry: Allowed With Restrictions
Soap: See EQUIPMENT CLEANERS FOR FARMS.
Soap: Allowed With Restrictions
Soap, Ammonium: Allowed With Restrictions
Sodium Bicarbonate: See PLANT DISEASE CONTROLS.
Sodium Bicarbonate Allowed
Sodium Carbonate: Allowed
Sodium Carbonate Peroxyhydrate: Allowed With Restrictions
Sodium Carbonate Peroxyhydrate: Allowed With Restrictions
Sodium Chlorate: Prohibited
Sodium Chloride: Allowed
Sodium Chloride: Allowed With Restrictions
Sodium Fluoaluminate: Prohibited
Sodium Hydroxide: Allowed With Restrictions
Sodium Hydroxide: Prohibited
Sodium Hypochlorite: See CHLORINE MATERIALS.
Sodium Molybdate: See MOLYBDENUM PRODUCTS.
Sodium Nitrate (Chilean Nitrate): Allowed With Restrictions
Sodium Silicate: Allowed With Restrictions
Sodium Tetraborate: See BORATES.
Soil Fumigants: Prohibited
Solvents: Prohibited
Sorghum: See PLANTS.
Soybean Meal: Allowed
Sphagnum Moss: Allowed
Spinosad: Allowed With Restrictions
Spray Adjuvants: See ADJUVANTS, FOR USE IN CROP PESTICIDES.

Spreader-stickers: Prohibited
Squid products, Liquid-stabilized: Allowed
Squid products, Multi-ingredient: Allowed
Sterile Insects: Allowed
Sticky Traps and Barriers: Allowed With Restrictions
Stone Meal: See MINED MINERALS, UNPROCESSED.
Straw: See PLANTS.
Streptomycin: Prohibited
Struvite (Magnesium Ammonium Phosphate): Prohibited
Strychnine: Prohibited
Sucrose Octanoate Ester: Allowed With Restrictions
Suffocating Oils: See OILS, HORTICULTURAL; PLANT DISEASE CONTROLS.
Sugar: Allowed
Sugar Lime: Prohibited
Sulfate of Potash Magnesia: Allowed
Sulfate of Zinc: See ZINC PRODUCTS.
Sulfur Dioxide: Prohibited
Sulfuric Acid: See FISH PRODUCTS, LIQUID, STABILIZED; SQUID PRODUCTS, LIQUID-STABILIZED; SQUID PRODUCTS, MULTIINGREDIENT; FISH PRODUCTS, MULTI-INGREDIENT.
Sulfuric Acid: Prohibited
Sulfurous Acid: See ELEMENTAL SULFUR.
Summer Oils: Allowed With Restrictions
Super Phosphate: Prohibited
Surfactants: Prohibited
Sylvinite: See POTASSIUM CHLORIDE.
Synthetic Substances: Prohibited
Talc: See MINED MINERALS, UNPROCESSED.
Tankage: Allowed
Tetracycline: Prohibited
Tetrahydrofurfuryl Alcohol: Prohibited
Thiram: Prohibited
Tobacco Dust: Prohibited
Tobacco Tea: Prohibited
Trace Minerals: Allowed
Transpiration Blockers: Prohibited
Transplant/Container Media: Allowed
Transplant/Container Media: Allowed With Restrictions
Transplant/Container Media: Prohibited
Traps: See STICKY TRAPS AND BARRIERS.
Traps and Lures: Allowed
Treated Seed: See SEED TREATMENTS.
Tree seals: Prohibited
Trichoderma spp.: Allowed With Restrictions
Triple Phosphate: Prohibited
Tripotassium Phosphate: Prohibited
Urea: Prohibited
Vermicastings: See WORM CASTINGS.
Vermicompost: See WORM CASTINGS.
Vermiculite: Allowed
Vinasse: Allowed
Vinegar: Allowed
Vinegar: Allowed With Restrictions
Vinegar: Prohibited: Virus Sprays: Allowed With Restrictions, Vitamin D3: Allowed With Restrictions: Vitamins: Allowed: Vitamins: Prohibited: Water and Wastewater: Allowed: Water Treatments: Allowed: Water Treatments: Allowed With Restrictions:

Weed Oils: Prohibited:

Wetting Agents: Allowed

Wetting Agents: Allowed With Restrictions; Wetting Agents: Prohibited; Wheat Middlings:

Wood Chips and Shavings: Allowed;

Wood Treatments: Allowed With Restrictions;

Wood, Treated: Allowed With Restrictions,

Wood, Untreated: Allowed

Wool Allowed,

Worm Castings: Allowed,

Worm Castings: Allowed With Restrictions,

Worm Castings: Prohibited,

Worms: Allowed,

Yeast: Allowed,

Yeast Extract Hydrolysate:

Yucca: Allowed,

Zeolite: Allowed,

OMRI - LIVESTOCK PRODUCTION MATERIALS LIST

Acetic Acid: Allowed
Acetic Acid: Allowed
Acetic Acid: Prohibited
Acid Activators for Chlorine Dioxide: Allowed With Restrictions
Acid Activators for Sodium Chlorite, Acidified: Allowed With Restrictions
Activated Carbon: See ACTIVATED CHARCOAL.
Activated Charcoal: Allowed
Activated Charcoal: Allowed
Activated Charcoal: Allowed
Adjuvants, for use in pesticides: Allowed With Restrictions
Adrenaline: Allowed
Alcohol, Ethyl (Ethanol): Allowed With Restrictions
Alcohol, Ethyl (Ethanol): Prohibited
Alcohol, Isopropyl (Isopropanol): Allowed With Restrictions
Alcohol, Methyl (Methanol): Prohibited
Algae: Allowed
Amino Acids: Prohibited
Anesthetics: See LIDOCAINE; PROCAINE.
Animal By-products: Prohibited
Anthelmintics: Prohibited
Antibiotics: Prohibited
Aquatic Plant Products: Allowed
Arsenate-treated Lumber: Allowed With Restrictions
Ascorbic Acid (Vitamin C): See VITAMINS.
Aspirin: Allowed With Restrictions
Atropine: Allowed With Restrictions
Bedding: Allowed
Biologics: Allowed
Biotin: See VITAMINS; VITAMIN B COMPLEX.
Bismuth Subsalicylate: Prohibited
Bleach: See CHLORINE MATERIALS.
Botanical Pesticides: Allowed
Botanicals: Allowed
Brewer's Yeast: Allowed
Butorphanol: Allowed With Restrictions
Butylated Hydroxytoluene (BHT): Prohibited
Calciferol: See VITAMINS.
Calcium: Allowed
Calcium Aluminosilicate: Allowed
Calcium Aluminosilicate: Prohibited
Calcium Borogluconate: Allowed With Restrictions
Calcium Carbonate: Allowed
Calcium Carbonate: Allowed
Calcium Chloride: Allowed
Calcium Glycerophosphate: Allowed
Calcium Hypochlorite: See CHLORINE MATERIALS.
Calcium Iodate: Allowed
Calcium Iodobehenate: Allowed
Calcium Pantothenate: Allowed
Calcium Phosphate: Allowed
Calcium Propionate: Allowed With Restrictions
Calcium Propionate: Prohibited
Calcium Proteinate: Allowed

Calcium Pyrophosphate: Allowed
Calcium Sulfate: Allowed
Carriers: Allowed
Carriers: Prohibited
Chlorhexidine: Allowed With Restrictions
Chlorine Dioxide: Allowed With Restrictions
Chlorine: Materials
Chlorine Materials: Allowed With Restrictions
Cholecalciferol (Vitamin D3): See VITAMINS; VITAMIN D.
Choline: See VITAMINS.
Citronella & Citronella Oil: See BOTANICAL PESTICIDES.
Cleaning Agents: See SANITIZERS, DISINFECTANTS AND CLEANERS.
Cleaning Agents: Allowed
Cleaning Agents: Prohibited
Coal Tar: Prohibited
Cobalt: Allowed
Cobalt Sulfate: Allowed
Colostrum: Class: LF Nonsynthetic, Agricultural From organic sources.
Colostrum/Whey Antibodies: Allowed
Copper: Allowed
Copper Sulfate: Allowed
Copper Sulfate: Allowed With Restrictions
Cuprous Iodide: Allowed
Cyanocobalamin: See VITAMINS.
D-activated Animal Sterol: See VITAMINS.
Dextrose: See GLUCOSE.
Diatomaceous Earth: Allowed
Diiodosalicylic Acid: See MINERALS.
D-limonene: Allowed
DL-methionine: See METHIONINE.
DL-methionine-hydroxy Analog: See METHIONINE.
DL-methionine-hydroxy Analog Calcium: See METHIONINE.
Dolomite: Allowed
Electrolytes: Allowed
Elemental Sulfur: Allowed With Restrictions
Enzymes: Allowed
Enzymes: Allowed
Epinephrine: Allowed
Essential Oils: Allowed
Essential Oils: Allowed
Ethoxyquin: Prohibited
Excipients: Allowed
Excipients: Allowed With Restrictions
Fenbendazole Allowed With Restrictions
Fermentation Products: Allowed
Ferric Phosphate: Allowed
Ferric Pyrophosphate: Allowed
Ferrous Lactate: Allowed
Ferrous Sulfate: Allowed
Fish Meal: Allowed
Fish Meal: Prohibited
Flunixin: Allowed With Restrictions
Folate: See VITAMINS.
Folic Acid: See VITAMINS.
Foot Baths: Allowed

Formic Acid: Allowed With Restrictions
Furosemide: Prohibited
Gelatin: Prohibited
Genetically Modified Organisms: Prohibited
Glucose: Allowed
Glucose: Allowed
Glycerin: Allowed With Restrictions
Growth Promoters: Prohibited
Heparin: Prohibited
Herbal Preparations: Allowed
Herbal Preparations: Allowed
Homeopathic Preparations: Allowed
Honey: Allowed
Hormones: Allowed With Restrictions
Hydrated Lime (Calcium Hydroxide): Allowed With Restrictions
Hydrated Sodium Calcium Aluminosilicate: Allowed
Hydrated Sodium Calcium Aluminosilicate: Prohibited
Hydrogen Peroxide: Allowed
Hydrogen Peroxide: Allowed With Restrictions
Hydroxyquinoline Sulfate: Prohibited
Hypochlorous Acid: Allowed With Restrictions
Ichthammol: Prohibited
Inerts, List 4: See ADJUVANTS, FOR USE IN PESTICIDES.
Inerts, Lists 1, 2 & 3: Prohibited
Inoculants: Allowed
Inositol: See VITAMINS.
Insect Meal: Allowed
Iodine: Allowed
Iodine: Allowed
Iodine: Allowed With Restrictions
Iodine: Allowed With Restrictions
Ionizing Radiation: Prohibited
Iron: Allowed
Iron Sulfate: Allowed
Ivermectin: Prohibited
Kaolin Clay: Allowed
Kaolin Pectin: Allowed With Restrictions
Kelp: Allowed
Kiln Dust: Prohibited
Lactic Acid: Allowed
Lanolin: Allowed
Lidocaine: Allowed With Restrictions
Lime Sulfur: Prohibited
Lime, hydrated: See HYDRATED LIME (CALCIUM HYDROXIDE).
Limonene: Allowed
Local Anesthetics: See LIDOCAINE; PROCAINE.
Lysine: Prohibited
Magnesium: Allowed
Magnesium Hydroxide: Allowed With Restrictions
Magnesium Sulfate: Allowed
Magnesium Sulfate (Epsom Salts): Allowed
Maltodextrin: Allowed
Manganese: Allowed
Manure: Prohibited
Marl: Allowed

Medications: Allowed
Medications: Prohibited
Methionine: Allowed With Restrictions
Microbial Products: Allowed
Microbial Products: Allowed With Restrictions
Microbial Products: Prohibited
Microorganisms: Allowed
Milk Replacers: Prohibited
Mineral Oil: Allowed With Restrictions
Mineral Oil: Prohibited
Minerals: Allowed
Minerals: Allowed
Minerals: Allowed
Molasses: Allowed
Moxidectin: Allowed With Restrictions
Nanomaterials, engineered: Prohibited
Neem: Allowed
Neotame: Prohibited
Newspaper: See BEDDING.
Niacin: See VITAMIN B COMPLEX.
Nicotinic Acid: See VITAMINS.
Nutritive supplements – injectable vitamins, trace minerals and electrolytes: Allowed With Restrictions
Odor Control Products: Allowed
Oxalic Acid Dihydrate: Allowed With Restrictions
Oxytocin (hormone): Allowed With Restrictions
Pantothenic Acid: See VITAMINS.
Parasiticides, External: Allowed
Parasiticides, External: Prohibited
Parasiticides, Internal: See DIATOMACEOUS EARTH; HERBAL PREPARATIONS.
Parasiticides, Internal: Prohibited
Pectin, Allowed
Pectin, high methoxy: Allowed
Pectin, high methoxy: Allowed
Peracetic Acid/Peroxyacetic Acid Allowed With Restrictions
Petroleum Oils: See MINERAL OIL.
Petroleum Oils: Prohibited
Pheromones: Prohibited
Phosphoric Acid: Allowed With Restrictions
Phosphorus: Allowed
Phytase: Allowed
Piperonyl Butoxide: Prohibited
Plastic Feed Pellets: Prohibited
Poloxalene: Allowed With Restrictions
Potassium: Allowed
Potassium Chloride: Allowed
Potassium Chloride: Allowed
Potassium Chloride: Allowed
Potassium Glycerophosphate: Allowed
Potassium Iodate: Allowed
Potassium Iodide: Allowed
Potassium Permanganate: See SANITIZERS, DISINFECTANTS AND CLEANERS.
Potassium Sorbate: Prohibited
Potassium Sulfate: Allowed
Prebiotics: Allowed
Preservatives: Prohibited

Probiotics: Allowed
Probiotics: Allowed
Probiotics: Prohibited
Procaine: Prohibited
Propionic Acid: Prohibited
Propylene Glycol: Allowed With Restrictions
Pyrethrum: Allowed
Pyridoxine Hydrochloride: Allowed
Quaternary Ammonia: See also CLEANING AGENTS.
Reduced Iron: Allowed
Riboflavin: Allowed
Riboflavin-5-Phosphate: Allowed
Salt: Allowed
Sanitizers, Disinfectants and Cleaners
Seaweed: Allowed
Selenium: Allowed
Selenium Yeast: Allowed
Silage Treatments: Allowed
Silicon Dioxide: Allowed
Silicon Dioxide: Prohibited
Soap: See SANITIZERS, DISINFECTANTS AND CLEANERS.
Sodium: Allowed
Sodium Acid Pyrophosphate: Allowed
Sodium Bicarbonate: Allowed
Sodium Carbonate: Allowed
Sodium Chloride: See SALT.
Sodium Chlorite, Acidified: Allowed With Restrictions
Sodium Hypochlorite: See CHLORINE MATERIALS.
Sodium Iodate: Allowed
Sodium Iodide: Allowed
Sodium Pantothenate: Allowed
Sodium Phosphate: Allowed
Sodium Selenate: Allowed
Sodium Selenite: Allowed
Sodium Silico Aluminate: Allowed
Sodium Silico Aluminate: Prohibited
Sodium Sulfate: Allowed
Sodium Tripolyphosphate: Allowed
Strychnine: Prohibited
Sucrose: Allowed
Sucrose: Allowed
Sucrose Octanoate Ester: Allowed With Restrictions
Sulfa Drugs: Prohibited
Sulfur: Allowed
Teat Dips: Allowed
Teat Dips: Allowed With Restrictions
Teat Dips: Prohibited
Thiamine Hydrochloride: Allowed
Thymol Iodide: Allowed
Tocopherols: Allowed
Tolazoline: Allowed With Restrictions
Udder Care Products: Allowed
Urea: Prohibited
Vaccines: See BIOLOGICS.
Vegetable Shortening: Allowed

Vinegar: Allowed
Vinegar: Allowed
Vitamin A: Allowed
Vitamin A Acetate: Allowed
Vitamin A Palmitate: Allowed
Vitamin B Complex: Allowed
Vitamin B1: Allowed
Vitamin B12: Allowed
Vitamin B2: Allowed
Vitamin B6: Allowed
Vitamin C: Allowed
Vitamin D: Allowed
Vitamin E: Allowed
Vitamin K: Allowed
Vitamins: Allowed
Water: Allowed
Water and Wastewater Treatments: Allowed
Water Treatments: Allowed
Xylazine: Allowed With Restrictions

OMRI - PROCESS AND HANDLING PRODUCTION MATERIALS LIST

1, 4-Dimethylnaphthalene: Prohibited
Acetic Acid: See SANITIZERS, DISINFECTANTS AND CLEANERS; VINEGAR.
Acetic Acid Bacteria: Allowed
Acid Activators for Chlorine Dioxide: Allowed With Restrictions
Acidified Sodium Chlorite: Allowed With Restrictions
Acids: See ACETIC ACID; ALGINIC ACID; CITRIC ACID; L-MALIC ACID; LACTIC ACID.
Activated Charcoal: Allowed With Restrictions
Agar-agar: Allowed
Agricultural Ingredients: Allowed With Restrictions
Alcohol, Ethyl (Ethanol): See SANITIZERS, DISINFECTANTS AND CLEANERS.
Alcohol, Ethyl (Ethanol): Allowed With Restrictions
Alcohol, Ethyl (Ethanol): Allowed With Restrictions
Alcohol, Ethyl (Ethanol): Prohibited
Alcohol, Isopropyl (Isopropanol): See SANITIZERS, DISINFECTANTS AND CLEANERS.
Algae Allowed: With Restrictions
Algal Extracts: Allowed
Algal Extracts: Prohibited
Alginates: Allowed
Alginic Acid: Prohibited
Amino Acids: Prohibited
Ammonium Alginate: Allowed
Ammonium Bicarbonate: Allowed With Restrictions
Ammonium Carbonate: Allowed With Restrictions
Ammonium Hydroxide: Prohibited
Ammonium Phosphates: Prohibited
Ammonium Sulfate: Prohibited
Ascorbic Acid (Vitamin C): Allowed
Aspartame: Prohibited
Attapulgate Clay: Allowed With Restrictions
Autolyzed Yeast: See YEAST AUTOLYSATE.
Bacteriophages: Allowed
Baker's Yeast: See YEAST, BAKER'S.
Baking powder: Allowed
Baking Soda: Allowed
Beeswax: Allowed With Restrictions
Beet Juice Extract Color: Allowed With Restrictions
Bentonite: Allowed
Beta-carotene Extract Color: Allowed With Restrictions
Black Currant Juice Color: Allowed With Restrictions
Black/Purple Carrot Juice Color: Allowed With Restrictions
Bleach: See CHLORINE MATERIALS.
Blueberry Juice Color: Allowed With Restrictions
Boiler Chemicals, nonvolatile: Allowed With Restrictions
Boiler Chemicals, volatile: Allowed
Boric Acid: Allowed With Restrictions
Botanical Pesticides: Allowed With Restrictions
Brewer's Yeast: See YEAST, BREWER'S.
Calcium Alginate: Allowed
Calcium Carbonate: Allowed
Calcium Chloride: Allowed
Calcium Citrate: Allowed
Calcium Hydroxide: Allowed
Calcium Hypochlorite: Allowed With Restrictions

Calcium Phosphates: Allowed
Calcium Stearate: Prohibited
Calcium Sulfate: Allowed
Calcium Sulfate: Prohibited
Carbon Dioxide: Allowed
Carbon Dioxide: Allowed With Restrictions
Carbon, Activated: See ACTIVATED CHARCOAL.
Cardboard, Fungicide Impregnated: Prohibited
Carnauba Wax: Allowed With Restrictions
Carob Bean Gum: See LOCUST BEAN GUM.
Carrageenan: Allowed
Carrot Juice Color: Allowed With Restrictions
Casein: Allowed With Restrictions
Casings, From Processed Intestines: Allowed With Restrictions
Catalase, Bovine Liver: Allowed
Caustic Potash: See POTASSIUM HYDROXIDE.
Celery Powder: Allowed With Restrictions
Cellulose, powdered, anti-caking agent: Allowed With Restrictions
Cellulose, powdered, filtering aid: Allowed With Restrictions
Cellulose, regenerative casings: Allowed With Restrictions
Charcoal: See ACTIVATED CHARCOAL.
Cherry Juice Color: Allowed With Restrictions
Chia (*Salvia hispanica* L.): Allowed With Restrictions
Chlorine Dioxide: Allowed With Restrictions
Chlorine Materials: Allowed With Restrictions
Chokeberry, Aronia Juice Color: Allowed With Restrictions
Chymosin (Microbial Rennet): Prohibited
Citric Acid: Allowed
Citrus Products: Allowed With Restrictions
Citrus Products: Allowed With Restrictions
Clay, Attapulgate: Allowed With Restrictions
Clay, Bentonite: Allowed
Clay, Fuller's Earth: Prohibited
Clay, Kaolin: Allowed
Collagen Gel: Allowed With Restrictions
Colloidal Silica: Allowed
Colors: Allowed With Restrictions
Colors: Prohibited
Colors, Artificial: Prohibited
Confectionary Coatings: Allowed
Confectionary Coatings: Allowed With Restrictions
Cornstarch (native): Allowed With Restrictions
Cornstarch, Modified: Prohibited
Cream of Tartar: See POTASSIUM ACID TARTRATE.
Cultures, Dairy: Allowed
Cyclohexylamine: Prohibited
Defoamers: Allowed
Defoamers: Allowed With Restrictions
Defoamers: Prohibited
Detergents: See SANITIZERS, DISINFECTANTS AND CLEANERS.
NOP Reference: 205.105(c)
Diatomaceous Earth: Allowed With Restrictions
Diatomaceous Earth: Allowed With Restrictions
Diethylaminoethanol: Prohibited
Dillweed Oil: Allowed With Restrictions

D-limonene: Allowed With Restrictions
D-limonene: Allowed With Restrictions
DL-malic Acid: Prohibited
Egg Wash: Allowed
Egg Wash: Allowed With Restrictions
Egg White (Albumen): Allowed With Restrictions
Egg White Lysozyme: Prohibited
Elderberry Juice Color: Allowed With Restrictions
Enzymes: Allowed
Enzymes: Prohibited
Enzymes, animal derived: Allowed
Ethanol (Ethyl Alcohol): See ALCOHOL, ETHYL (ETHANOL).
Ethylene: Allowed With Restrictions
Excluded Methods: Prohibited
Ferrous Sulfate: Allowed With Restrictions
Filtering Materials: See BENTONITE; DIATOMACEOUS EARTH; PERLITE; CELLULOSE, POWDERED, FILTERING AID.
Fish Oil: Allowed With Restrictions
Flavors: Allowed With Restrictions
Fructooligosaccharides: Allowed With Restrictions
Fruit and Vegetable Wash, post-harvest: Allowed With Restrictions
Fruit Coatings: Allowed
Fruit Coatings: Allowed With Restrictions
Fruit Coatings: Prohibited
Fumigants
Fumigants: Allowed With Restrictions
Fungicides: Allowed With Restrictions
Fungicides: Prohibited
Galangal, Frozen: Allowed With Restrictions
Gelatin: Allowed With Restrictions
Gellan Gum: Allowed
Genetically Modified Organisms: Prohibited
Glucono Delta-lactone: Allowed
Glucono Delta-lactone: Prohibited
Glycerides, Mono- and Di- :Allowed With Restrictions
Glycerin: Allowed With Restrictions
Glycerin: Prohibited
Glycerol Mono-oleate: Allowed With Restrictions
Grape Juice Color: Allowed With Restrictions
Grape Skin Extract Color: Allowed With Restrictions
Guar Gum: Allowed With Restrictions
Gum Arabic: Allowed With Restrictions
Gums, Vegetable: Allowed With Restrictions
Hydrochloric Acid: Prohibited
Hydrogen Peroxide: Allowed
Hydroxypropyl Methylcellulose: Prohibited
Hypochlorous Acid: Allowed With Restrictions
Inerts: Allowed With Restrictions
Inerts, facility pest management: Allowed With Restrictions
Inulin, Oligofructose Enriched: Allowed With Restrictions
Ion Exchange Media: Allowed With Restrictions
Ionizing Radiation: Prohibited
Isinglass: Prohibited
Kaolin: Allowed
Kelp: Allowed With Restrictions
Kombu: See SEAWEED, PACIFIC KOMBU.

Konjac Flour: Allowed With Restrictions
Lactic Acid: Allowed
Lactic Acidophilus Bacteria: Allowed
L-cysteine: Prohibited
Lecithin, de-oiled: Allowed With Restrictions
Lecithin, liquid: Allowed With Restrictions
Lemongrass, Frozen: Allowed With Restrictions
Lignin Sulfonates: Prohibited
Limonene: Allowed With Restrictions
Limonene: Allowed With Restrictions
Lipase, Animal: Allowed
L-malic Acid: Allowed
Locust Bean Gum: Allowed With Restrictions
Low-acyl Gellan Gum: Allowed
Lures: Allowed
Lye: See SODIUM HYDROXIDE.
Lysozyme: See EGG WHITE LYSOZYME.
Magnesium Carbonate: Prohibited
Magnesium Chloride: Allowed
Magnesium Chloride: Prohibited
Magnesium Silicate: Prohibited
Magnesium Stearate: Allowed With Restrictions
Magnesium Sulfate: Allowed
Malic Acid: See DL-MALIC ACID.
Marsala: Allowed With Restrictions
Methylparaben: Prohibited
Microbial Products: Allowed
Microcrystalline Cellulose: Prohibited
Microorganisms: Allowed
Microorganisms: Prohibited
Microwaves: Allowed
Minerals: Allowed With Restrictions
Mono/Di-glycerides: See GLYCERIDES, MONO- AND DI-
Monosodium Glutamate (MSG): Prohibited
Morpholine: Prohibited
Nanomaterials, engineered: Prohibited
Neotame: Prohibited
Nigari: See MAGNESIUM SULFATE; MAGNESIUM CHLORIDE.
Nisin: Prohibited
Nitrogen: Allowed
Nori: Allowed With Restrictions
Nutrient Minerals: Allowed With Restrictions
Nutrient Vitamins: Allowed With Restrictions
Nutritional Yeast: See YEAST, NUTRITIONAL.
Octadecyclamine: Prohibited
Orange Pulp, Dried: Allowed With Restrictions
Oxygen: Allowed
Ozone: Allowed
Packaging Materials: Allowed
Packaging Materials: Prohibited
Pancreatin: Allowed
Paprika Color: Allowed With Restrictions
Paraffin: Prohibited
Pectin, high methoxy: Allowed With Restrictions
Pectin, low methoxy: Allowed With Restrictions

Pectolytic Enzymes: Allowed
Peppers (Chipotle Chile): Allowed With Restrictions
Pepsin: Allowed
Peracetic Acid/Peroxyacetic Acid: Allowed With Restrictions
Perlite: Allowed With Restrictions
pH Adjusters: Allowed
pH Adjusters: Prohibited
Pheromones: Allowed
Phosphoric Acid: Allowed With Restrictions
Polysorbate 60 and 80: Prohibited
Post-Harvest Substances
Potassium Acid Tartrate: Allowed With Restrictions
Potassium Alginate: Allowed
Potassium Carbonate: Allowed
Potassium Chloride: Allowed
Potassium Citrate: Allowed
Potassium Hydroxide: Allowed With Restrictions
Potassium Iodide: Allowed
Potassium Lactate: Allowed With Restrictions
Potassium Metabisulfite: Prohibited
Potassium Permanganate: See SANITIZERS, DISINFECTANTS AND CLEANERS.
Potassium Phosphates: Allowed With Restrictions
Propylparaben: Prohibited
Pseudomonas: Allowed With Restrictions
Pullulan: Allowed With Restrictions
Pumpkin Juice Color: Allowed With Restrictions
Purple Sweet Potato Juice Color: Allowed With Restrictions
Pyrethrum: Allowed With Restrictions
Quaternary: Ammonia
Red Cabbage Extract Color: Allowed With Restrictions
Red Radish Extract Color: Allowed With Restrictions
Rennet, animal-derived: Allowed
Repellents: Allowed
Rodenticides
Saffron Extract Color: Allowed With Restrictions
Salt: Allowed
Sand, Steamed: Allowed
Sanitizers, Disinfectants and Cleaners
Sea Salt: Allowed
Seaweed: See KELP.
Seaweed, Pacific Kombu: Allowed With Restrictions
Shellac, Orange, Unbleached: Allowed With Restrictions
Sherry: Allowed With Restrictions
Silicon Dioxide: Allowed With Restrictions
Silicone: Prohibited
Smoke Flavoring: See also YEAST, SMOKED; FLAVORS.
Smoked Yeast: See YEAST, SMOKED.
Soap: See SANITIZERS, DISINFECTANTS AND CLEANERS.
Soap, Ammonium: Prohibited
Sodium Acid Pyrophosphate: Allowed With Restrictions
Sodium Alginate: Allowed
Sodium Benzoate: Prohibited
Sodium Bicarbonate: Allowed
Sodium Carbonate: Allowed
Sodium Chloride: Allowed

Sodium Citrate: Allowed
Sodium Hydroxide: Allowed With Restrictions
Sodium Lactate: Allowed With Restrictions
Sodium Phosphates: Allowed With Restrictions
Sodium Silicate: Allowed With Restrictions
Sodium Tartrates: Prohibited
Sodium Tripolyphosphate: Prohibited
Sorbic Acid: Prohibited
Steam: See WATER.
Strychnine: Prohibited
Sulfites: Allowed With Restrictions
Sulfur: Prohibited
Sulfur Dioxide: Allowed With Restrictions
Sulfuric Acid: See SANITIZERS, DISINFECTANTS AND CLEANERS.
Sulfuric Acid: Prohibited
Sulfurous Acid: Allowed With Restrictions
Sweet Potato Starch: Allowed With Restrictions
Talc: Prohibited
Tamarind Seed Gum: Allowed With Restrictions
Tannins: Allowed With Restrictions
Tannins: Prohibited
Tannic Acid: See also TANNINS.
Tannic Acid: See also TANNINS.
Tartaric Acid: Allowed
Tetrasodium Pyrophosphate: Prohibited
Tocopherols: Allowed
Tragacanth Gum: Allowed With Restrictions
Tricalcium: Phosphate: See CALCIUM PHOSPHATES.
Trypsin: Allowed
Turkish Bay Leaves: Allowed With Restrictions
Turmeric Extract Color: Allowed With Restrictions
Vegetable Oils: Allowed With Restrictions
Vinegar: Allowed With Restrictions
Vitamin D3: Allowed With Restrictions
Vitamins: Allowed With Restrictions
Volatile Solvents: Prohibited
Wakame Seaweed: Allowed With Restrictions
Water
Wax: Allowed
Wax: Prohibited
Whey Protein Concentrate: Allowed With Restrictions
Wine Yeast: Allowed With Restrictions
Wood Rosin: Allowed
Xanthan Gum: Allowed
X-rays: See IONIZING RADIATION.
Yeast: Allowed With Restrictions
Yeast Autolysate: Allowed With Restrictions
Yeast, Baker's: Allowed With Restrictions
Yeast, Brewer's: Allowed With Restrictions
Yeast, Nutritional: Allowed With Restrictions
Yeast, Smoked: Allowed With Restrictions