FOREWORD

This Food Additives Status List, formerly called Appendix A of the Investigations Operations Manual (IOM), organizes additives found in many parts of 21 CFR into one alphabetized list. Additives included are those specified in the regulations promulgated under the FD&C Act, under Sections 401 (Food Standards), and 409 (Food Additives). The list also includes selected pesticide chemicals from 40 CFR 180 for which EPA has set tolerances in food. FDA enforces those tolerances. Within the space available, the Food Additives Status List includes use limitations and permitted tolerances for each additive. For complete information on its use limitations, refer to the specific regulation for each substance. New regulations and revisions are published in current issues of the Federal Register as promulgated. Also refer to the CFSAN website to review several FDA databases of additive categories. For example, (Everything Added to Food in the United States) is a helpful reference within the limitations described at the beginning of the database.

The Food Additive Status List omits certain categories of additives. Here are the omissions:

1. Obviously safe substances not cited in a regulation as Generally Recognized as Safe (GRAS). You may find such substances on an FDA web site, which contains received from companies since 1998, and FDA’s response.
2. Synthetic flavoring substances in 21CFR 172.515. The CFR does not contain a complete list of permissible flavorings. Certain trade groups such as the Flavor Extract Manufacturers Association have established expert panels to evaluate and make determinations on the GRAS status of their products. If you need help in determining the acceptability of a flavoring after consulting 21 CFR 172.515, contact CFSAN Office of Food Additive Safety (HFS-200) at (240) 402-1200.
3. Substances granted prior sanction for specific use prior to enactment of the Food Additives Amendment. For additional information on these substances, contact the CFSAN Office of Food Additive Safety (HFS-200) at (240) 402-1200.
4. Indirect food additives, 21 CFR Parts 175, 176, 177, & Part 178 (except that sanitizing agents for food processing equipment as listed in 178.1010 are included in the Food Additives list.) Be aware that as a result of the Food Quality Protection Act of 1996 and Antimicrobial Regulation Technical Corrections Act of 1998, EPA now has jurisdiction over sanitizing solutions applied to permanent or semi-permanent food contact surfaces, other than food packaging. To look up indirect food additives in Parts 175, 176, 177 and 178 go to FDA’s. Use it to locate the regulation in which its use is fully described. FDA has recently implemented a new way to market, called “Premarket Notification”, for certain food contact substances. These notifications are effective only for the manufacturer or supplier identified in the notification. A is available on the FDA website.
5. Color additives, 21 CFR Parts 70, 71, 73, 74, 80 & 82. Go to the Color Additives Status List following the Food Additives Status list in Appendix A.

NOTE: The Food Additives Status List is provided only as a quick look-up on the use limitations for a food additive or pesticide chemical. It is possible that mistakes or omissions could have occurred. Additionally, there may be cases where the agency has offered interpretations concerning specific provisions of the regulations. For example, in the case of boiler water additives or other minor ingredients, processing aids, or indirect additives, FDA has not objected, in certain cases, to the substitution of ammonium, calcium, magnesium, potassium, or sodium salts for each other when only one is listed in a regulation. The Food Additive Status list is updated annually, so it may not reflect the latest information. For all these reasons, take care before advising a firm that a use of a particular food additive is prohibited or otherwise limited. Read the actual regulation. If there are any doubts or if a particular situation is unclear, you or your supervisor should consult with the CFSAN, Office of Food Additive Safety (HFS-200) at (240) 402-1200, or the Division of Petition Review (HFS-265) at (240) 402-1264, or the Division of Food Contact Substance Notification Review HFS-275 at (240) 402-1162, or the Division of Biotechnology and GRAS Notice Review HFS-255 at (240) 402-1221.

Please send corrections or additions to the list to Harold Woodall, FDA/CFSAN Office of Food Additive Safety (HFS-206), 5100 Paint Branch Parkway, College Park, Maryland 20740 or e-mail them to harold.woodall@fda.hhs.gov.

ABBREVIATIONS USED
<table>
<thead>
<tr>
<th>Type</th>
<th>Kind, effect or use of additive</th>
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<th>Kind, effect or use of additive</th>
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<tbody>
<tr>
<td>AC</td>
<td>Anticaking agent</td>
<td>AF</td>
<td>Antifoaming (or defoaming) agent</td>
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<tr>
<td>AOX</td>
<td>Antioxidant</td>
<td>BC</td>
<td>Boiler compound</td>
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<td>BL</td>
<td>Bleaching agent or flour-maturing agent</td>
<td>B&amp;N</td>
<td>Buffer and neutralizing agent</td>
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<tr>
<td>CTG</td>
<td>Component or coating for fruits &amp; vegetables</td>
<td>DS</td>
<td>Dietary supplement</td>
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<tr>
<td>EMUL</td>
<td>Emulsifier</td>
<td>ENZ</td>
<td>Enzyme</td>
</tr>
<tr>
<td>ESO</td>
<td>Essential oil and/or oleoresin (solvent free)</td>
<td>FEED</td>
<td>Substances under the Food Additives Amendment added directly to feed</td>
</tr>
<tr>
<td>FLAV</td>
<td>Natural flavoring agent</td>
<td>FL/ADJ</td>
<td>Substance used in conjunction with flavors</td>
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<tr>
<td>FUM</td>
<td>Fumigant</td>
<td>FUNG</td>
<td>Fungicide</td>
</tr>
<tr>
<td>HERB</td>
<td>Herbicide</td>
<td>HOR</td>
<td>Hormone</td>
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<tr>
<td>INH</td>
<td>Inhibitor</td>
<td>MISC</td>
<td>Miscellaneous</td>
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<tr>
<td>NAT</td>
<td>Natural substances and extractives</td>
<td>NNS</td>
<td>Non-nutritive sweetener</td>
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<tr>
<td>NUTR</td>
<td>Nutrient</td>
<td>NUTRS</td>
<td>Nutritive Sweetener</td>
</tr>
<tr>
<td>PEST</td>
<td>Pesticide other than fumigant</td>
<td>PRES</td>
<td>Chemical preservative</td>
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<tr>
<td>SANI</td>
<td>Sanitizing agent for food processing equipment</td>
<td>SDA</td>
<td>Solubilizing and dispersing agent</td>
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<tr>
<td>SEQ</td>
<td>Sequestrant</td>
<td>SOLV</td>
<td>Solvent</td>
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<tr>
<td>SP</td>
<td>Spices, other natural seasonings &amp; flavorings</td>
<td>SP/ADJS</td>
<td>Spray adjuvant</td>
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<tr>
<td>STAB</td>
<td>Stabilizer</td>
<td>SY/FL</td>
<td>Synthetic flavor</td>
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<tr>
<td>VET</td>
<td>Veterinary drug, which may leave residue in edible tissues of animals or in edible animal products</td>
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Food Additive Listings > Listing of Food Additive Status Part I

- Acacia (gum arabic) - EMUL/STAB, REG, Used as thickener, emulsifier, or stabilizer at \( \leq 20\% \) of alcoholic beverages - 172.780, GRAS/FS, See Reg Part 135, Frozen Desserts; Part 169, Food Dressings and Flavorings; Part 169.179, Vanilla Pwd - 184.1330
- Acephate - PEST, REG, 40 CFR 180.108
- Acesulfame potassium - NNS, REG, See Regulation - 172.800
- Acetic acid - B&N/FEED, GRAS/FS, Part 133, Cheese; Part 582.1005, In animal feed practices; 184.1005, 172.814
- Acetic anhydride - MISC, REG, In modifying food starch - 172.892
- Acetone - SOLV, REG, 30 ppm - As residual solvent in spice oleoresins - 173.210
- Acetone peroxides - BL, REG/FS, GMP, Part 137, Cereal Flours - 172.802
- Acetyl-(p-nitrophenyl)-sulfanilamide - FEED, REG, See: Sulfanitran
- N-Acetyl-L-Methionine (free, hydrated, or anhydrous, or sodium or potassium salts) - NUTR, REG, In foods, except infant foods and foods containing added nitrites/nitrates - 172.372
- Acetylated monoglycerides - EMUL, REG, GMP, Used in food, food processing, food pkg or food stg equipment - 172.828
- Acidified sodium chloride solutions - REG, Microbial control agent in water for processing poultry, raw agricultural commodities, processed fruits, processed root, tuber, bulb, legume, fruiting (i.e., eggplant, groundcherry, pepino, pepper, tomatillo, and tomato), curcubit and leafy vegetables, red meat, red meat parts, organs, processed, comminuted or formed meat food products, and seafood. See 173.325 for specifications and limitations.
- Acifluorfen, Sodium - Sodium salt of acifluorfen; tolerances for residues - 40 CFR 180.383
- Aconitic acid (equisetic acid, citridic acid, achilleic acid) - SY/FL, GRAS/FS - 184.1007
- Acrolein - MISC, REG, In modifying food starch - 172.892
- Acrylamide - GMP, MISC, REG, < 5 ppm by wt of juice - Used in clarifying beet sugar or cane sugar juice and liquor or corn starch hydrolyzate - 173.5; < 10 ppm by wt of liquor or hydrolysate; Fixing agent for the immobilization of glucose isomerase for

Acidified sodium carbonate solutions - REG, Microbial control agent in water for processing poultry, raw agricultural commodities, processed fruits, processed root, tuber, bulb, legume, fruiting (i.e., eggplant, groundcherry, pepino, pepper, tomatillo, and tomato), curcubit and leafy vegetables, red meat, red meat parts, organs, processed, comminuted or formed meat food products, and seafood. See 173.325 for specifications and limitations.
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use in manufacturing high fructose corn syrup - 173.357; FEED, REG, GMP, As a thickener & suspending agent in non-medicated aqueous suspensions intended for addition to animal feeds - 173.120

- **Acrylamide-Sodium Acrylate Resin** - MISC, REG, 173.5, Boiler Water Additive - 173.310, 172.710 - Adjuvants for pesticide use dilutions

- **Acrylic Acid 12-acrylamido-2,2-propionic sulfonic acid copolymer** - BC, REG, GMP, Boiler water - 173.310

- **Acrilonitrile copolymers** - 180.22

- **Adjuvants for pesticides use dilutions** - ADG/PEST, REG, Surfactants and adjuvants added to pesticide use dilutions to growing crops - 172.710

- **Adipic acid** - B&N/FEED, GRAS, GMP, In animal feed practices - 582.1005 - FLV, GRAS - 184.1009

- **Adipic anhydride** - MISC, REG, In modifying food starch - 172.892

- **Agar-agar** - MISC, GRAS/FS, GRAS - 184.1115 - 0.8% - In baked goods and baking mixes; 2.0% - In confections & frostings; 1.2% - In soft candy; 0.25% - In all other candy; Part 135, Frozen Desserts; Part 150 Art Swt Jelly & Preserves

- **Aklomide (2-chloro-4-nitro-benzamide)** - FEED, REG, 4.5 ppm - In liver & muscles of uncooked edible tissue - 556.30; 3 ppm - In skin w/fat of chickens - 556.30 - Use 558.35

- **Alachlor** - REG, Residues in or on agricultural commodities - 40CFR 180.249

- **DL-Alanine** - FL/ADJ, REG, 1% of pickling spice - As a flavor enhancer for sweeteners in pickling mix - 172.540 L-Alanine - NUTR, REG - 172.320

- **Albendazole** - VET, REG, Use in cattle as suspension - 520.45a; Use in cattle as paste - 520.45b; 0.2 ppm - As residue in uncooked edible cattle tissue - 556.34 (aminosulfone metabolite); 0.6 ppm - As residue in uncooked edible cattle muscles - 556.34; 1.2 ppm - As residue in uncooked edible cattle liver - do; 1.8 ppm - As residue in uncooked edible cattle kidney - do; 2.4 ppm - As residue in uncooked edible cattle fat - do

- **Alcohol, Denatured Formula 23A** - MISC, REG - 73.1 Diluent in color additive mixtures for coloring shell eggs

- **Alcohol, SDA-3A** - MISC, REG - 73.1 - Diluent in color additive for marking food

- **Alcohols/Phosphate Esters of Same Mixture** - MISC, REG, <0.2% in lye peeling - Assist in lye peeling of fruits and vegetables - 173.315

- **Albanese** - SP/ESO, GRAS - 182.10

- **Algae, brown (kelp), or red** - NAT, GRAS, REG - 184.1120, 184.1121 and 172.365

- **Alginic Acid and Salts:**
  - **Ammonium alginate** - MISC, REG, Boiler Water Additive - 173.310
  - **Calcium alginate** - GRAS - 184.1187
  - **Potassium alginate** - GRAS - 184.1610
  - **Sodium alginate** - GRAS, REG - 184.1724, Boiler Water Additive - 173.310
  - **Alginic acid** - GRAS, 184.1011

- **Algin** - STAB, GRAS/FS, Part 133, Cheeses; Part 135, Frozen Desserts; Part 150 Jellies and Preserves;

- **Alkanomide produced by condensation of coconut oil fatty acids and diethanolamine** - MISC, REG, < 0.2% by wt application rate - Ir delinting of cottonseeds - 173.322

- **n-Alkyl (C12-C18) benzyldimethyl-ammonium chloride** - cpds, av mol wt 351-380 - SANI, REG, < 200ppm or 150-400 ppm - Of active quaternary compound in the sanitizing solution - 178.1010

- **n-Alkyl (C12-C14) dimethylethylbenzyl ammonium chloride** - SANI, REG, 200 ppm - Of active quaternary compound in the sanitizing solution - 178.1010

- **alkyl-hydroxy-poly(oxyethylene)** - MISC, REG, < 3 ppm in the flume water - In flume water for washing sugar beets prior to slicing operations - 173.315; < 0.3% by wt application rate - In delinting of cottonseeds - 173.322

- **Alkylene Oxide Adducts of Alkyl Alcohols** - MISC, REG, <0.2% in lye peeling - Assist in lye peeling of fruits and vegetables - 173.315

- **Allspice** - SP/ESO, GRAS - 182.20

- **Allspice herb and seed** - SP/ESO, GRAS, Free from prussic acid - 182.20

- **Aloe** - FL/ADJ, REG, GMP, Used only in conjunction w/flavors - 172.510

- **Alpha-acetolactate decarboxylase** - ENZ, REG.GMP enzyme preparation (derived from Bacillus subtillis modified by recombinant methods to contain gene coding for enzyme from B. brevis), Used as a processing aid in the production of alcoholic malt beverages and distilled liquors - 173.115.

- **Alpha-amylase** - ENZ, REG, used to modify food starch - 173.310

- **Alpha-galactosidase from Morteirella vinaceae var rafinoseutilizer** - ENZ, REG, No residue in finished product - Used in the production of sugar (sucrose) from sugar beets and increase sucrose yield in molasses - 173.145

- **Althea flowers or root (marshmallow root)** - FL/ADJ, REG, GMP - Used only in conjunction w/flavors - 172.510

- **Aluminum ammonium sulfate** - B&N, GRAS - 182.1127

- **Aluminum calcium silicate** - AC, GRAS/FS - 182.2122 << 2% by wt - Table salt; Part 169.179, Vanilla Powder

- **Aluminum nicotinate** - DS, REG, As a source of niacin in foods for special dietary use - 172.310

- **Aluminum phosphate (phosphate)** - FUM, REG, Tolerances for Residues - 40 CFR 180.225

- **Aluminum potassium sulfate** - B&N, GRAS
- **Aluminum salts of fatty acids** - MISC, REG, GMP - Binder, emul, and AC agent - 172.863

- **Aluminum sodium sulfate** - B&N, GRAS

- **Aluminum stearate** - AF, REG, X-ref - Defoaming agent comp - 173.340 (Used in processing beet sugar & yeast)

- **Aluminum sulfate** - MISC, GRAS, Part 582 - Animal feed; REG, <2.0% in combo. w/<2.0% of 1-octenyl succinic anhydride -In modifying food starch -172.892; FEED,GMP/GRAS - 582.1125

- **Ambergris** - MISC, GRAS

- **Ambrette (seed)** - SP/ESO, GRAS - 182.10 and 182.20

- **Amino Acids** - 172.320

- **p-Aminobenzoic acid** - MISC, GRAS, <30 mg per day

- **Aminoglycoside 3'phosphotransferase II** - 173.170

- **Aminopeptidase from Lactococcus lactis** - MISC, GRAS - To make cheddar cheese and protein hydrolysates -184, 1985

- **Amitraz** - PEST, REG, see 40CFR 180.287

- **Ammonia** - PEST, REG, Exemptions from the requirement of a tolerance - 40 CFR 180.1003

- **Ammoniated cottonseed meal** - FEED, REG, <20% of total ration - In feed of ruminants as source of protein and non-protein nitrogen - 573.140; <10% of total ration for laying chickens - In feed of chickens as source of protein and non-protein nitrogen (573.140)

- **Ammoniated glycyrrhizin, licorice, or glycyrrhiza** - MISC, FS, GMP, See Licorice

- **Ammoniated rice hulls** - FEED, REG, <20 % of total ration - In feed of beef cattle as source of crude fiber and sole source of non-protein nitrogen - 573.160

- **Ammonium alginate** - STAB, GRAS; BC, REG, GMP - In boiler water - 173.310

- **Ammonium bicarbonate** - B&N, GRAS/FS, Part 163, Cacao Pdts; Part 582 - Animal feeds - 184.1135

- **Ammonium carbonate** - B&N, GRAS/FS, Part 163, Cacao Pdts; Part 582 - Animal feeds - 184.1137

- **Ammonium caseinate** - MISC, FS, Part 136, Bakery Products

- **Ammonium chloride** - MISC, FS/GRAS, Part 136, Bakery Pdts - 184.1138

- **Ammonium hydroxide** - B&N, GRAS/FS, Part 163, Cacao Pdts; Part 582 - Animal feeds - 184.1137, 184.1139

- **Ammonium persulfate** - MISC, REG, <0.075% - Modifier for food starch - 172.892; <0.05% sulfur dioxide

- **Ammonium phosphate (mono- and dibasic)** - B&N, GRAS/FS, Part 136, Bakery Pdts; Part 582 - Animal feeds - 184.1139, 184.1141, 184.1141a, 184.1141b

- **Ammonium saccharin** - NNS, See Saccharin

- **Ammonium sulfate** - MISC, GRAS, GMP - 184.1143

- **Amoxicillin** - VET, REG, 0.01 ppm - In uncooked edible tissues of cattle - 556.38; In milk - 556.38; Use: As Powder & Bolus

- **Ampicillin** - VET, REG, 0.01 ppm neg residues - In uncooked edible tissues of cattle & swine; In milk - 556.40;

- **Amprolium (1-(4-amino-2-n-propyl-5-pyrimldinyl-methyl)-2- picolinium chloride hydrochloride) alone or comb/w other drugs and antibiotics** - FEED/VET, REG, See Bacitracin Methylene Disalicylate; See Bacitracin Zinc, Bambermycins, Chlortetracycline, Erthyromycin thiocyanate, Lincomycin, Monensin, Oleandomyacin, Oxytetracycline, Tylosin, Virginiamycin

- **Anthracite Coal, Sulfonated** - MISC, REG - 173.25 - Ion Exchange Resins, Meeting requirements of ASTM method D388-38, Class 1, Group 2

- **Apramycin** - REG, 0.1 ppm - In uncooked muscle of swine - 556.52; 0.3 ppm - In swine liver - do; 0.4 ppm - In kidney & fat of swine - do; Use: Drinking water -520.110

- **Apricot kernel (persic oil)** - NAT, GRAS

- **Anoxomer** - AOX, REG, 5000 ppm - 172.105

- **Antibiotics for growth promotion and feed efficiency** - FEED, REG, See Bacitracin Methylene Disalicylate; See Bacitracin Zinc, Bambermycins, Chlortetracycline, Erthyromycin thiocyanate, Lincomycin, Monensin, Oleandomyacin, Oxytetracycline, Tylosin, Virginiamycin

- **Anthracite Coal, Sulfonated** - MISC, REG - 173.25 - Ion Exchange Resins, Meeting requirements of ASTM method D388-38, Class 1, Group 2

- **Apramycin** - REG, 0.1 ppm - In uncooked muscle of swine - 556.52; 0.3 ppm - In swine liver - do; 0.4 ppm - In kidney & fat of swine - do; Use: Drinking water -520.110

- **Apricot kernel (persic oil)** - NAT, GRAS

- **Arabinogalactan** - EMUL, REG, GMP, In essential oils, non-nutritive sweeteners, flavor bases, non-standardized dressings, and pudding mixes - 172.610; MISC, REG, GMP, Comp of microcapsules for flavoring oils - 172.230

- **Arginine (l form only)** - NUTR/DS, REG - 172.320
**Food Additive Listings > Listing of Food Additive Status Part I**

- **Arnica flower extract** - FL/ADJ, REG, GMP, In alcoholic beverages only - 172.510
- **Arsanilic acid** - FEED, REG, (See Arsenic) In poultry feed - 558.55;558.58; 558.62; 558.248; 558.680; PEST, REG, Tolerances for Residue - 40 CFR 180.550
- **Arsenic** - FEED, REG, 2 ppm - As residue in liver & kidney of swine - 556.60; 2 ppm - As residue in edible bypds of chickens & turkeys - do; 0.5 ppm - As residue in muscle meat of chickens & turkeys, in eggs, & in muscle meat and by-products (other than kidney & liver) of swine - do
- **Artemisia** - FL/ADJ, REG, GMP, Finished food thujone free - 172.510
- **Artichoke leaves** - FL/ADJ, REG, GMP, In alcoholic beverages only - 172.510
- **Asafoetida** - ESO, GRAS - 182.20
- **Ascorbic acid** - PRES, GRAS, GMP - 182.3013; DS, GRAS, GMP - 182.5013; NUTR, GRAS, GMP - 182.8013; MISC, GRAS/FS, Part 137, Cereal Flours; 150.141, 150.161, Art Sw Jellies & Preserves; 155.200 - Canned Mushrooms & Artichokes
- **Ascorbyl palmitate** - GRAS - For use as a preservative in foods - 182.3149
- **Asparagine (l-form)** - NUTR/DS, REG - 172.320
- **Aspartame** - NUTRS, REG, GMP, Sweetening agent, sugar substitute uses stated in - 172.804. Sugar substitute tablets, breakfast cereals, chewing gum, dry bases for beverages, instant coffee and tea beverages, gelatins, puddings, fillings, and dairy product analog toppings, ready-to-serve nonalcoholic flavored beverages, tea beverages, fruit juice based drinks where food standards permit such use, fruit flavored drinks and ades, imitation fruit flavored drinks and ades, frozen stick-type confections and novelties, breath mints, hard and soft candy, refrigerated ready-to-sell gelatin, puddings, and fillings, fruit wine beverages with EtOH <7%, yogurt-type products where aspartame is added after pasteurization and culturing, refrigerated flavored milk beverages, frozen desserts, frostings, toppings, fillings, glazes and icings for precooked baked goods, frozen, ready-to-thaw-and-eat cheesecakes, fruit and fruit toppings, frozen dairy and nondaary frostings, toppings, and fillings, fruit spreads, fruit toppings, and fruit syrups, malt beverages with <7% ETOH and containing fruit juice, baked goods and baking mixes 0.5 wt.% of ready-to bake products or of finished formulation and prior to baking.
- **Aspartic acid (l-form)** - NUTR/DS, REG - 172.320
- **Aspergillus Niger** - MISC, REG, For Fermentation Production of Citric Acid - 173.280
- **Avermectin B1 and its delta-8.9-isomer** - 40CFR 449
- **Azaperone** - VET, REG, Use: Swine (Injection) - 522.150
- **Azodicarbonamide** - BL, REG/FS, 45 ppm in flour - Part 137, Cereal Flours & 172.806

**B**

- **Bacitracin, manganese bacitracin, zinc bacitracin, Bacitracin methylene disalicylate** - FEED/VET, REG, 0.5 ppm (neg res) - As residue in meat and meat by-products of cattle, poultry, pheasants, quail, and swine and in milk & eggs - 556.70; For feed use see 558.55, 558.58, 558.62, 558.76, 558.78, 558.248, 558.430, 558.460, 558.530, 558.680
- **Bacteria (harmless, lactic acid producing; propionic acid producing)** - MISC, FS, Part 133, Cheeses; Part 166, Margarine
- **Bacterial Catalase** - See Catalase, Bacterial
- **Bacterial Catalase** - See Catalase, Bacterial
- **Bakers Yeast Protein (Saccharomyces Cerevisiae)** - NUTR, REG, <10,000 organisms/gm by APC - In foods as Nutrient supplement, 172.325; <10 yeast and mold/gm in final product
- **Balm (lemon balm)** - SP/ESO, GRAS - 182.20 and 182.20
- **Bambermycins** - FEED, REG, For feed uses in chickens, turkeys, & swine - 558.95
- **Basil** - ESO, GRAS - 182.20
- **Basil (bush and sweet)** - SP, GRAS - 182.10
- **Bay, Bay leaves** - SP/ESO, GRAS - 182.10 and 182.20
- **Bay, (Myrcia Oil)** - ESO, GRAS - 182.20
- **Bee's wax (bleached, white wax)** - MISC, GRAS
- **Bee's wax (yellow wax)** - MISC, GRAS - 184.1973
- **Bee's wax, white (cire d'abeille)** - FL/ADJ, REG, GMP, In conjunction with flavors - 172.510
- **Benomyl** - FUNG, REG, Pesticide, Tolerances for residues - 40 CFR 180.294
- **Bensulfonyl methyl** - HERB, REG, Tolerances for residues 40 CFR 180.445
- **Bentazon** - REG, 40 CFR 180.355
- **Bentonite** - FEED, GRAS, GMP 21CFR 582.1155
- **Benazathine cloxacillin** - VET, REG, 0.02 ppm - As residues in milk - 556.115; Use: Infusion - 526.363
- **Benzene** - MISC, REG, 1.0 ppm - In modified hop extract for beer - 172.560
- **Benzoic Acid** - PRES, GRAS, 0.1%
- **Benzoil Resin** - FL/ADJ, REG, GMP, In conjunction with flavors - 172.510, 73.1
- **Benzozone**
- **Benzoyl Peroxide** - BL, FS, Part 137, Cereal Flours; Part 133 for milk to be used in certain cheeses
- **Bergamot (bergamot orange)** - ESO, GRAS - 182.20
- **Beta-carotene** - NUTR, GRAS, GMP, Use: Direct human food ingredient - 184.1245
- **BHA (butylated hydroxyanisole)** - AOX/FS, GRAS, 0.02% - Of fat or oil content, incl essential (volatile) oil, or food, incl oleomargarine Part 166, Margarine; AOX, REG, 10 ppm, alone or w/BHT - In potato granules - 172.110; 32 ppm - In mixed diced, glazed fruits - 172.110; 50 ppm, alone or w/BHT - In dry breakfast cereals, sweet potato flakes, dehydr potato flakes or shreds - 172.110; 90 ppm in
mix or <2 ppm in prep food. In dry mixes for beverages and desserts - 172.110; 200 ppm alone or w/BHT - In emulsion stabilizers for shortenings; 0.1% - In active dry yeast - 172.110; AOX, REG, 0.1% alone or w/BHT and/or propyl gallate - In chewing gum base - 172.615; AOX, REG, 0.1% of defoamer - For proc. Beet sugar & yeast - 173.340; AOX, REG, 0.5% of essential volatile oil - For use in flavoring substances - 172.515; AOX, REG, In mastitis form, for dairy cattle - 526.820

- BHT (butylated hydroxytoluene) - AOX, GRAS, 0.02% - Of fat or oil content, incl essential oil, of food, incl oleomargarine Part 166 - Margarine; FS, 33 ppm in rice - In enriched parboiled rice - Part 137.350; FS, <0.02% in oleomargarine - In any animal fat ingredient permitted in oleomargarine not to exceed 0.02% by wt of such animal fat content, Part 166 - margarine; AOX, REG, 10 ppm alone or w/B/HA - In potato granules - 172.115; 50 ppm alone or w/B/HA - In dry breakfast cereals, sweet potato flakes, dehydr potato flakes or shreds - 172.115; 200 ppm alone or w/B/HA - In emul stab for shortenings - 172.115; REG, 0.1% alone or w/B/HA and/or propyl gallate - In chewing gum base - 172.615; REG, 0.1% of defoamer - For Proc. Beet sugar & yeast - 173.340; REG, In mastitis form, for dairy cattle - 526.820

- Bicarbonate of soda - B&N, GRAS/FS - 137.270, Self-rising Commeal
- Bifenthrin - PEST, REG, Tolerances for Residues 40 CFR 180.442
- Bile salts & Ox Bile Extract - SDA, GRAS - 184.4560
- Bioflavonoids, citrus - DS, ILL, Any claim for special dietary use renders the food misrepresented (VitaSafe case)
- Biotin - NUTR/DS, GRAS, GMP - 182.5159; 182.8159
- 1,1-Bis(p-chlorophenyl)-2,2,2,-trichloroethanol - PEST, REG, Tolerances for Residues - 40 CFR 180.163
- Bitter almond - ESO, GRAS, Free of prussic acid - 182.20
- Bisuret, feed grade - NUTR, REG, GMP, In feed for ruminants except those producing milk for human consumption -573.220
- Blackberry bark extract - FL/ADJ, REG, In conjunction w/flavors only - 172.510
- Boiler water additives - Ammonium alginate, cobalt sulfate, lignosulfonic acid, monobutyl ether of polyoxyethylene glycol or potassium tripolyphosphate, sodium carboxymethylcellulose, sodium glucoheptonate, sodium humate, sodium metasilicate, sodium metabisulfite, sodium propylsulfate, sodium succinate, sodium hexametaphosphate, sodium hydroxide, sodium lignosulfonate, sodium nitrile, sodium phosphate (mono-, di-, tri-), sodium polyacrylate, sodium polyethylene, sodium polyethylene, sodium polystyrene, tannin (incl quebracho extract), tetrasodium EDTA, tetrasodium pyrophosphate, 1-hydroxyethylidene-1, 1-diphosphonic acid and its sodium & potassium salt - BC, REG, GMP, In steam contacting food - 173.310
- Hydrazine - BC, REG, In steam contacting food
- Acrylamide-sodium acrylate resin - BC, REG, 0.05% of acrylamide monomer - In steam contacting food
- Cyclohexylamine or Morpholine - BC, REG, <10 ppm - In steam contacting food except milk and milk products
- Decadexylamine - BC, REG, <3 ppm - In steam contacting food except milk and milk products
- Diethylaminoethanol - BC, REG, 15 ppm - In steam contacting food except milk and milk products
- Trisodium nitrioltriacetate - BC, REG, <5 ppm in feed water - In steam contacting food except milk and milk products
- Polymaleic acid and/or its sodium salt - BC, REG, Total < 1 ppm in feed water - In steam contacting food
- Sorbitol anhydride esters (a mixture of sorbitan monostearate, polyoxyethylene (20) sorbitan mono stearate (polysorbate 60) and polyoxyethylene (20) sorbitan monolaureate (polysorbate 20) - BC, REG, Each component < 15 ppm in steam contacting food
- Bois de rose - ESO, GRAS - 182.20
- Boldus leaves - FL/ADJ, REG, In alcoholic beverages only - 172.510
- Borax - MISC, ILL, No petition filed, Illegal for use in foods incl. wax ctg for fruits and vegetables. MID permits use in export meats.
- Boron - MISC, REG, <310 ppm - In modified hop extract from sodium borohydride - 172.560
- Boronia flowers - FL/ADJ, REG, GMP, In conjunction w/flavors only - 172.510
- Bromelin or Bromelain (spelling optional) - MISC, MIA, To soften tissue of meats; ENZ, REG, As an enzyme preparation (optional ingredient) in bakery products - 136
- Bromides, inorganic - FUM, REG, X-ref - Inorganic bromides
- Brominated vegetable oil - STAB, INTERN/REG, <15 ppm - In fruit flavored beverages where not precluded by a standard - 180.30
- Bryonia root - FL/ADJ, REG, GMP, In alcoholic beverages only - 172.510
- Bucha leaves oil - FL/ADJ, REG, GMP, In conjunction w/flavors only - 172.510
- Buckbeen leaves - FL/ADJ, REG, GMP, In alcoholic beverages only - 172.510
- Buquinolate - FEED, REG, 0.4 ppm - In liver, kidney & skin of chickens - 556.90; 0.1 ppm - Residue in muscle of chickens - do; 0.5 ppm Residues in uncooked yolk of eggs - do;0.2 ppm - Residues in uncooked whole eggs - do; Feed use in chickens, see 558.62, 558.80 & 558.105
- Butadiene styrene rubber - MISC, REG, In chewing gum base - 172.615
- Butane, n-butan, iso-butane - MISC, GRAS - 184.1165
- Butoxy monoether of mixed (ethylene-propylene) polyalkylene glycol - SANI, REG, GMP, Adequate drainage - 178.1010
- n-Butoxypolyoxyethylene polyoxypropylene glycol - AF, REG, GMP, X-ref - Defoaming agent component (used in processing beet sugai - 173.340
- Butter Starter distillate - FLAV, FL/ADJ, GRAS, GMP -184.1848
- Butyl acetate
- Butyl Alcohol - MISC, REG - 73.1, 172.560 - Modified hop extract
- Tert-Butylhydroquinone (TBHQ) - AOX, REG - 172.185, 0.02% of fat or oil content, incl essential (volatile) oil, of food 2(p-tert-Butylphenoxyl) cyclohexyl 2-propynyl sulfite PEST, REG, See Propargite
- Butyl rubber - MISC, REG, Component of chewing gum base - 172.615
- Butyl stearate - AF, REG, X-ref - Defoaming agent component (used in proc. beet sugar & yeast) - 173.340
- Cacao - ESO, GRAS - 182.20
- Cadmium sulfide - COLOR, ILL, Prior sanction for use as colorant in polystyrenes withdrawn - FD 1-8-69
- Caffeine - MISC, GRAS, 0.02% - Cola-type beverages
- Cajepet - FL/ADJ, REG, GMP, In conjunction with flavors
- Calamus, root, oil or extract - FLAV, ILL, Illegal in foods
- Calcium acetate - SEQ, GRAS - 184.1185
- Calcium alginate - STAB, GRAS - 184.1187
- Calcium ascorbate - PRES, GRAS - 182.3189
- Calcium bromate - BL, FS, <0.0075 part for each 100 parts by wt of flour used - Part 136 - Bakery Products
- Calcium bromide - SANI, REG, <200 ppm avail halogen - Adequate drainage - 178.1010
- Calcium carbonate - MISC, GRAS/FS, Part 137, admixed w/benzoyl peroxide for bleaching flour; Part 136, Bakery Pdts; Part 135, Frozen Desserts; Part 582, Animal feeds; 184.1191; EMUL, REG, Comb w/any other optional emulsifying ingredients listed in 169.115 including sodium hexametaphosphate; DS/NUTR, GRAS, GMP - 182.5191, 182.8191
- Calcium caseinate - MISC, FS, Part 135, Frozen Desserts except water ices; Part 133, Creamed Cottage Cheese
- Calcium chloride - MISC, GRAS/FS, 184.1193, Parts 131, 133, 150, 155 & 156 in Evaporated Milk; Cheese & Cheese Products; Part 133; VET, REG, For use in mastitis formulations for treating dairy animals - 526.820
- Calcium citrate - MISC, GRAS/FS, Part 133, Process Cheese, Cheese Food & Spread, Part 150, Art Sw Fruit Jelly Preserves & Jam, Parts 155 & 156, certain canned vegetables; Part 31; Part 582 - Animal feeds; DS/NUTR, GRAS,GMP - 182.5195, 182.8195
- Calcium cyclamate - NNS, ILL, Removed from GRAS List 10-21-69. Legal only in products complying with drug provisions of the law.
- Calcium diphosphate - SEQ, GRAS, See calcium phosphate
- Calcium dinitrate (Ca perxide) - MISC, FS, Part 136
- Calcium disodium ethylenediamine-tetraacetate [(calcium ethylenedinitrilo) tetraacetate]; calcium disodium EDTA - AF, REG, 25 ppm - Fermented malt beverages - 172.120; Antiglushing agent; MISC, 60 ppm - Spice extractives in soluble carriers; Color & flavor; 100 ppm - Pecan pie filling, promote color retention; 340 ppm - Clams (cooked-canned), promote color retention; 800 ppm - Dry Pinto beans, promote color retention; 310 ppm - Promote color retention in dried lima beans (cooked, canned); 275 ppm - Crabmeat (cooked- canned), retard struvite formation, promote color retention; 250 ppm - Shrimp (cooked-canned), retard struvite formation, promote color retention 33 ppm -Promote flavor in carbonated soft drinks; 110 ppm - Promote color retention in canned white potatoes; 200 ppm - Mushrooms (cooked, canned); 220 ppm - In pickled cucumbers or pickled cabbage; To promote color, flavor & texture retention; 100 ppm - Promote color retention in artificially colored lemon-flavored and orange-flavored spreads; 100 ppm - Potato salad, preservative; 75 ppm - Pecan pie filling, promote color retention; 340 ppm - Clams (cooked-canned), promote color retention; 800 ppm - Dry Pinto beans, promote color retention; 220 ppm - In pickled cucumbers or pickled cabbage; To promote color, flavor & texture retention; 100 ppm - Promote color retention in legumes (all cooked canned, other than dried lima beans, pink beans and red beans) - 172.120
- Calcium gluconate - MISC, GRAS/FS, GMP - 184.1199; Part 150, Art Sw Jelly & Preserves; Part 582, Animal feeds Calcium glycerophosphate - NUTR/DS, GRAS, GMP -182.8201, 182.5201
- Calcium hexametaphosphate - SEQ, GRAS status under review
- Calcium hydroxide - MISC, GRAS/FS, Part 135, Canned Peas; Part 136, Bakery Pdts; Part 135, Frozen Desserts; Part 582, Animal feeds; 184.1191; EMUL, REG, Comb w/any other optional emulsifying ingredients listed in 169.115 including sodium hexametaphosphate; DS/NUTR, GRAS, GMP - 182.5191, 182.8191
- Calcium iodobehenate - DS, GRAS, Animal Feed - 582.80
- Calcium lactate - MISC, GRAS/FS, Parts 136, Bakery Pdts; Part 150, Art Sw Jelly & Preserves; Part 155, Canned Veg; Part 582, Animal Feeds - 184.1207; MISC, GRAS/FS, < amount which yields 0.051% calcium by wt in finished food - Improve crispness in canned bean sprouts, See Part 155.200
- Calcium lactobionate - MISC, REG, GMP, Firming agent in dry pudding mixes - 172.720
- Calcium lignin sulfonate (and/or sodium salt) - FEED, REG, <4 % of finished pellets - As sole pelleting aid in animal feeds - 573.600; < 11% - Surfactant in molasses used in feeds as a source of metabolizable energy - 573.600
- Calcium lignosulfonate - SP/ADJ, REG, GMP, Dispersing agent and stabilizer in pesticides for pre- or post-harvest use on bananas - 172.715
- Calcium orthophosphate - B&N, FS, GMP GRAS - See calcium phosphate (tribasic)
- Calcium oxide - MISC, GRAS/FS, Part 135 Frozen Desserts; Part 582, Animal feeds; DS/NUTR, GRAS, GMP -182.5210, 182.8210, 184.121
- Calcium pantothenate - NUTR/DS, GRAS, GMP, 182.5192, 182.5212
- Calcium pantothenate (calcium chloride double salt of) - DS, REG, GMP, Label of additive container or any intermediate premix prepared there-from shall contain name of the additive and the concentration of additive expressed as pantothenic acid - 172.33
- Calcium periodate - FEED, REG, Nut source of iodine in salt for livestock - 573.240
- Calcium peroxide (Same as calcium dioxide) - MISC, FS, <0.0075 parts for each 100 parts wt. of flour used -Part 136, Bakery Pdts
- Calcium phosphate (mono-) - MISC, GRAS/FS, Part 150, Art Sw Jelly & Preserves; Part 155.200, Cnd Potatoes, Cnd Green or Red Sw
Peppers, Canned Carrots; Part 155.190(a), Canned Tomatoes; Part 136, Bread; Part 582, Animal feeds

- **Calcium phosphate (mono-, di-)** - NUTR/MISC, GRAS/FS, Part 137, Cereal Flours and other standardized foods
- **Calcium phosphate (mono-, di, or tribasic)** - MISC, GRAS/FS, Part 150, Art Sw Jelly and Preserves; Part 136, Bread; DS/NUTR, GRAS, GMP - 182.5217, 182.8217
- **Calcium propionate** - PRES, GRAS/FS, Part 136 Bakery Pdts; Part 133, Cheeses; Part 150, Art Sw Jelly & Preserves - 184.1221, 184.1784
- **Calcium pyrophosphate** - NUTR/DS, GRAS, GMP - 182.5223, 182.8223
- **Calcium saccharin** - NNS, INTERIM, See Saccharin
- **Calcium salt of partially dimerized rosin** - CTG, REG, GMP, X-ref - Coating on fresh citrus fruit - 172.210
- **Calcium salts** - MISC, FS, 0.026% - Part 155.190(k), Cnd Tomatoes; Part 155.200, Canned Potatoes, Green or Red Sweet Peppers, Lima Beans, Carrots; Part 136, Enriched Bread, Rolls & Buns
- **Calcium salts of fatty acids** - MISC, REG, GMP - Binder, emul, and AC agent - 172.863
- **Calcium silicate (including synthetic)** - AC, FS, <2% - Part 169.179 Vanilla Powder; AC, REG, GMP, Max 2% in foods except 5% in baking powder - 172.410; <2% - In animal feeds - 573.260
- **Calcium sorbate** - PRES, GRAS - 182.3225
- **Calcium stearate** - AC, REG/FS, <2% by wt. - Part 169.179, Vanilla Powder; AF, REG, GMP, In beet sugar and yeast - 173.340; MISC, GRAS, GMP - 184.1229
- **Calcium stearate, feed grade** - FEED, REG, GMP, As anti-caking agent in feeds - 573.280
- **Calcium stearoyl-2-lactylate** - MISC, REG/FS, <0.5 part/100 parts flour - Part 136, Bakery Pdts - 172.844; MISC, REG, <0.05% - As a whipping agent in liquid & frozen egg whites; MISC, REG, <0.5% - As a whipping agent in dried egg whites; MISC, REG, <0.3% by wt of finished pdt - As whipping agent in whipped vegetable oil topping; REG, <0.5% - As conditioning agent in dehyd potatoes - do
- **Calcium sulfate** - MISC, GRAS/FS; Part 133, Cheese and Related Cheese Pdts; Part 137, Cereal Flours; Part 136, Bakery Pdts; Part 135, Frozen Desserts; Part 150, Art Sw Jelly & Preserves; Part 155, Cnd Vegetables; Part 156, Cnd Tomatoes - 184.1230
- **Calendula** - SP, GRAS - 182.10
- **Calumba root** - FL/ADJ, REG, GMP - In alcoholic beverages only - 172.510
- **Camomile, camomile flowers English, Roman, German, Hungarian** - SP/ESO, GRAS - 182.10 and 182.20
- **Camphor tree** - FL/ADJ, REG, GMP, Comp of flavors - safrole free - 172.510
- **Cananga** - ESO, GRAS - 182.20
- **Candida lipolytica** - ENZ, REG, Fermentation organism for production of citric acid - 173.165
- **Candida guilliermondii** - ENZ, REG, Complete absence - Fermentation production of citric acid - 173.160
- **Canediilla Wax** - CTG, GRAS, GMP - 184.1976
- **Canola oil** - MISC, GRAS, X-Ref - Rapeseed oil, Raw Erusic Acid
- **Capers** - SP, GRAS - 182.10
- **Caproic acid** - MISC, REG, <1% aliphatic acids - In peeling soln for fruits & veg - 173.315
- **Caprylic acid** - PRES, GRAS, In cheese wraps; MISC, REG, <1% aliphatic acids - In peeling soln for fruits & vegs
- **-173.315
- **Capsicum** - SP/ESO, GRAS - 182.10 and 182.20
- **Captan** - PEST, REG, Tolerances for Residues - 40 CFR
- **Carbohydrase enzyme derived from Aspergillus niger** - ENZ, REG. GMP, For removal of visceral mass in clam processing or shell from shrimp - 173.120
- **Carbohydrase enzyme derived from Rhizopus Oryzae** - ENZ, REG. Used in the production of dextrose - 173.130
- **Carbomycin** - FEED, REG, ZERO - Residues in uncooked edible tissue of swine using procedures in 556.100; FEED, REG, Feed Use: 558.11!
- **Carbarsone (not USP)** - FEED, REG, 0.025% to 0.0375% in the feed - In feed for turkeys - 558.680, 558.120; FEED, REG, 2 ppm - As residue in edible byproducts of chicken & turkeys - 556.60; 0.5 ppm - As residue in muscle meat of chickens & turkeys & eggs - do
- **Carbaryl** - INSECT, REG, Tolerances for Residues - 40 CFR 180.169
- **Carbofuran** - PEST, REG, Tolerances for Residues - 40 CFR 180.254
- **Carbohydrase enzyme derived from Aspergillus niger** - ENZ, REG. GMP, For removal of visceral mass in clam processing or shell from shrimp - 173.120
- **Carbohydrase enzyme derived from Rhizopus Oryzae** - ENZ, REG. Used in the production of dextrose - 173.130
- **Carbomycin** - FEED, REG, ZERO - Residues in uncooked edible tissue of swine using procedures in 556.100; FEED, REG, Feed Use: 558.11!
- **Carbarsone (not USP)** - FEED, REG, 0.025% to 0.0375% in the feed - In feed for turkeys - 558.680, 558.120; FEED, REG, 2 ppm - As residue in edible byproducts of chicken & turkeys - 556.60; 0.5 ppm - As residue in muscle meat of chickens & turkeys & eggs - do
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- **Carbohydrase enzyme derived from Aspergillus niger** - ENZ, REG. GMP, For removal of visceral mass in clam processing or shell from shrimp - 173.120
- **Carbohydrase enzyme derived from Rhizopus Oryzae** - ENZ, REG. Used in the production of dextrose - 173.130
- **Carbomycin** - FEED, REG, ZERO - Residues in uncooked edible tissue of swine using procedures in 556.100; FEED, REG, Feed Use: 558.11!
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- **Carbaryl** - INSECT, REG, Tolerances for Residues - 40 CFR 180.169
- **Carbofuran** - PEST, REG, Tolerances for Residues - 40 CFR 180.254
- **Carbohydrase enzyme derived from Aspergillus niger** - ENZ, REG. GMP, For removal of visceral mass in clam processing or shell from shrimp - 173.120
- **Carbohydrase enzyme derived from Rhizopus Oryzae** - ENZ, REG. Used in the production of dextrose - 173.130
- **Carbomycin** - FEED, REG, ZERO - Residues in uncooked edible tissue of swine using procedures in 556.100; FEED, REG, Feed Use: 558.11!
- **Carbarsone (not USP)** - FEED, REG, 0.025% to 0.0375% in the feed - In feed for turkeys - 558.680, 558.120; FEED, REG, 2 ppm - As residue in edible byproducts of chicken & turkeys - 556.60; 0.5 ppm - As residue in muscle meat of chickens & turkeys & eggs - do
- **Carbaryl** - INSECT, REG, Tolerances for Residues - 40 CFR 180.169
- **Carbofuran** - PEST, REG, Tolerances for Residues - 40 CFR 180.254
- Carob bean extract -ESO, GRAS -182.20
- Carob bean gum (locust bean gum) - STAB/EMUL, FA/FS, Part 133, Cheeses; Part 135, Frozen Desserts; Part 169 Dressings for Foods; Part 150, Art Sw Jellies & Preserves; GRAS -184.1343
- Carotene - NUTR/DS, GRAS, GMP, 182.5245 - 182.8245
- Carrageenan and its ammonium, calcium, potassium, or sodium salts - STAB, REG, GMP, In foods, except for those standardized food that do not provide for such use -172.620, 172.626; STAB, REG/FS, <0.8% by wt of finished cheese - Part 133, various sections, Cheese Prds
- Carrageenan or carrageenan salts with Polysorbate 80 -MISC, REG, 500 ppm polysorbate 80 in final food containing the additives - For producing foods in gel form - 172.623 (See 172.620, 172.626, & 172.840 for specifications)
- Carrot - ESO, GRAS - 182.20
- Cascara sagrada - FL/ADJ, REG, GMP, In conjunction with flavors - 172.510
- Cascarilla bark - ESO, GRAS - 182.20
- Cassia, cassia bark (Chinese, Padang or Batavia, Saigon) - SP/ESO, GRAS - 182.10 and 182.20
- Cassie flowers - FL/ADJ, REG, GMP, In conjunction w/flavors - 172.510
- Castoreum - MISC, GRAS - 182.50
- Castor Oil - MISC, REG, < 500 ppm in hard candy - A release and anti-sticking agent - 172.876; GMP, Comp. protect ctg vit & min tabs. Meet Specs in USP XIX; FL/ADJ, REG, GMP, In conjunction w/flavors - 172.510
- Catalase, Bacterial (derived from Micrococcus lysodeikticus) - ENZ, REG/FS, < 20 ppm of the wt of the milk treated - To destroy hydrogen peroxide in mfr of cheese - 173.135;133.113;
- Catechu, black - FL/ADJ, REG, GMP, In conjunction with flavors - 172.510
- Cayenne pepper - SP, GRAS - 182.10
- Cedar, White (arborvitae) leaves and twigs - FL/ADJ, REG, GMP, Finished food thujone free, Used in conjunction with flavors - 172.51
- Cefitofluor - VET, REG, 3.0 ppm - Use as sterile powder -522.313; Residue in muscle - 556.113; 9.0 ppm - Residue in kidney - do; 6.0 ppm - Residue in liver - do; 12.0 ppm -Residue in fat - do
- Celery seed - SP/ESO, GRAS - 182.10 and 182.20
- Cellulase enzyme derived from Aspergillus niger - ENZ, REG, GMP, For removal of visceral mass in mass processing and shell from shrimp - 173.120
- Cellulose gum - STAB, GRAS/FS, X-ref - Sodium Carboxymethylcellulose
- Cellulose triacetate - MISC, GMP, Fixing agent for the immobilization of lactase for use in reducing the lactose content of milk - 173.35
- Centaury (centrurium) herb - FL/ADJ, REG, GMP, In alcoholic beverages only - 172.510
- Cephalirin, sodium - VET, REG, 0.02 ppm - Residues in milk, 556.115; Use - 529.365; 0.1 ppm - Residues in uncooked edible tissues of cattle - 556.115; Use: Infusion -529.365
- Cephalirin benzathine - VET, REG, 0.02 ppm - As residue in milk - 556.115; Use: Infusion - 526.363
- Cetyl Alcohol, synthetic - MISC, REG, GMP, See Fatty alcohols, synthetic - 172.864
- Cetylpyridinium chloride - REG, Used as an antimicrobial agent in a fine mist spray to treat the surface of raw poultry carcasses prior to immersion in a chiller at a level not to exceed 0.3 gram cetylpyridinium chloride per pound of raw poultry carcass. The solution shall also contain propylene glycol at a concentration of 1.5 times that of the cetylpyridinium chloride - 173.375
- Chamomile Flower - SP, REG - 182.10
- Chamomile Flower, English, Oil - ESO, REG - 182.20
- Chemicals for controlling micro-organisms in cane sugar and beet sugar mills - REG 173.320
- Chemicals used in delinting cottonseed - 173.322
- Chemicals used in washing fruits & vegs. or to assist in peeling fruits and vegs. Polyacrylamide, Potassium bromide, Sodium dodecylbenzenesulfonate, Sodium hypochlorite, sodium 2-ethyl-l-hexylsulfate, sodium n-alkylbenzene sulfonate, sodium mono- and dimethyl-naphthalene sulfonates mol wt 245-260, Alkylene oxide adducts of alkyl alcohols and phosphate esters of alkylene oxides. Adducts of alkyl alcohols mixtures -MISC, REG, Use of chemicals followed by rinsing to remove residues. X-ref - Individual chemicals, 173.315 limits amounts of some in wash water
- Cherry-laurel leaves - FL/ADJ, REG, GMP, In conjunction w/flavors only; <25 ppm prussic acid - 172.510
- Cherry-laurel water - FL/ADJ - 172.510
- Cherry, pits, extract - FL/ADJ, REG, GMP, In conjunction w/flavors only; <25 ppm prussic acid - 172.510
- Cherry, wild, bark - ESO, GRAS - 182.20
- Chervil - ESO/SP/FLAV, GRAS - 182.10
- Chervil extract - ESO, GRAS - 182.20
- Chestnut leaves/extract - FL/ADJ, REG, In conjunction w/flavors - 172.510
- Chewing gum base, MISC, REG, GMP, Chiclet, chiquibul, crown gum, gutta hang kang, jelutong, massaranduba balata, massaranduba chocolate, nispero, lechi caspi, pendare, perillo, rosindina, Venezuelan chicle, Leche de vaca, Niger gutta, tunu, childe, natural rubber, glycerol ester of tall oil resin, etc. - 172.615
- Chiclet - MISC, REG, Comp of chewing gum base - 172.615
- Chicory - ESO, GRAS - 182.20
- Chilte - MISC, REG, Chewing gum base - 172.615
- Chiquibul - MISC, REG, Comp of chewing gum base - 172.615
- Chirata (Chiretta, East Indian Bolonong) & herb extract
- FL/ADJ, REG, GMP, In alcoholic beverages only - 172.510 Chives - SP, GRAS - 182.10

- Chloramphenicol - VET, REG, ZERO - Drug in any form may not be used in food (meat, milk, and egg) producing animals

- Chlorhexidine dihydrochloride - VET, REG, ZERO Residue in edible tissues of calves - 556.120

- Chlorimuron ethyl - PEST, REG, Tolerance for Residues 40 CFR 180.429

- Chlorine & chlorine dioxide - BL, FS, GMP, Part 137, Cereal Flours

- Chlorine dioxide - MISC, REG, Used as an antimicrobial agent in poultry process water at a level not to exceed 3 ppm residual chlorine dioxide. Used as an antimicrobial agent in water used to wash fruits and vegetables that are not raw agricultural commodities at a level not to exceed 3 ppm residual chlorine dioxide - 173.300

- Chlorine dioxide, stabilized - SANI, REG, For use as rinse for food processing equipment - 178.1010

- Chlorobutanol - VET, REG, ZERO - In milk from dairy animals from use of mastitis formulations - 526.820; As residues - 556.140

- Chlorofluorocarbon-113 - MISC, REG, GMP, To cool or freeze chickens - 173.342

- Chloromethylated aminated styrene divinylbenzene resin - MISC, REG, 500 ppm in sugar liquor - To clarify sugar liquor - 173.70

- 2-Chloro-4-nitrobenzamide - FEED, REG, See Aklomide

- Chloropentafluoroethane alone or comb/w carbon dioxide nitrous oxide, propane, or octafluorocyclobutane - MISC, REG, Used as a propellant and aerating agent in food except where food standards preclude use - 173.345

- 2-(m-Chlorophenoxyl) propionic acid - PEST, REG, Tolerances for Residues - 40 CFR 180.325

- Chlopyrifos-methyl - INSECT, REG, 90 ppm - As residue in/or on barley milling fraction - Tolerances for Residues 40 CFR 180.419

- Clorsulon - VET, REG, Use: As a drench for cattle - 520.462; 1.0 ppm - As residue in uncooked edible muscle tissue of cattle - 556.163; 2.0 ppm - As residue in uncooked liver - do; 3.0 ppm - As residue in kidney - do; 4.0 ppm - As residue in uncooked cattle fat - do; As injection for cattle; combination with Ivermectin - 522.119

- Chlortetracycline - FEED/VET, REG, 4 ppm - Residues in uncooked kidneys of chickens & turkeys; 1 ppm - In uncooked muscle, liver, fat & skin of chickens and turkeys as residue - 556.150; ZERO - Residues in eggs - 556.150; 4 ppm - Residues in uncooked kidney of swine 556.150; 2 ppm - Residues in uncooked liver of swine - 556.150; 1 ppm - Residues in uncooked muscle of swine - 556.150; 0.2 ppm - Residues in uncooked fat of calves - 556.150; 0.5 ppm - Residues in uncooked liver & kidneys of calves - 556.150; 1 ppm - Residues in uncooked muscle & fat of calves - 556.150; 0.1 ppm - In uncooked kidney, liver, and muscle of beef cattle & non-lactating dairy cows as residue; ZERO - Residue in uncooked fat - do; ZERO - Residue in milk - 556.150; 1 ppm - Residues in uncooked kidney of sheep - 556.150; 0.5 ppm - Residues in uncooked liver of sheep - 556.150; 0.1 ppm - Residues in uncooked muscle of sheep - 556.150; For feed use: 556.55, 558.58, 558.105, 558.128, 558.175, 558.274, 558.368, 558.430, 558.450, 558.530, 558.680

- Chlortetracycline - FEED, REG, Sufa: 0.1 ppm (neg residue) - Residue in uncooked edible tissues of swine, 556.690;
  + Procaine Penicillin - Penicillin: 0 - Residue in uncooked edible tissues of swine, 556.510;
  + Sulfathiazole - Chlortetracycline: 4 ppm - Residue in uncooked edible tissue of swine kidney - 556.150; 2 ppm - Residue in uncooked edible tissue of swine liver - 556.150; 1 ppm - Residue in uncooked edible tissue of swine muscle - do; 0.2 ppm - Residue in uncooked edible tissue of swine fat - do; Uses & other information - 558.155

- Chlortetracycline - FEED, REG, Sufa: 0.1 ppm (neg residue) - Residues in uncooked edible tissues of cattle & swine - 556.670

- + Procaine Penicillin - Penicillin: 0 - Residue in uncooked edible tissues of swine - 556.150;
  + Sulfathiazole - Chlortetracycline: 4 ppm - Residue in uncooked kidney of swine - 556.150; 2 ppm - Residue in uncooked liver of swine, 556.150; 1 ppm - Residue in uncooked edible tissue of swine - do; Uses & other information - 558.145

- + Sulfamethazine - Chlortetracycline: 4 ppm - Residue in uncooked edible tissues of swine - 556.510

- Chlorpyrifos - PEST, REG, Tolerances for Residues 40 CFR 180.342

- Choline bitartrate - NUTR/DS, GRAS, GMP - 182.5250, 182.8250

- Choline chloride - NUTR/DS, GRAS, GMP - 182.5252. 182.8252

- Choline xanthate - FEED, REG, GMP, For poultry, swine & ruminants - 573.300

- Chymosin enzyme preparation derived from E. Coli K12 - ENZ, GRAS, GMP, As a stabilizer & thickener -184.1685; derived from Aspergillus niger - ditto.

- Cinchona bark, red or yellow - FL/ADJ, REG, < 83 ppm total - Cinchona alkaloids in finished beverage - 172.510

- Cinnamon & bark & leaf, Ceylon, Chinese, and Saigon - O/SP, GRAS, 182.10 and 182.20

- Cinnamyl anthranilate - SYL/FL, BAN, ZERO - 189.113

- Cinnamyl formate - FL/ADJ, REG, GMP, X-ref Beeswax, white - 172.510

- Citric acid - SEQ/B&N, GRAS/FS - 182.1033, 182.6033 -GMP, Part 169, Dressings; Part 133, Part 146 Canned Fruit Juices; Cheese; Part 166, Oleomargarine; FEED, GRAS, GMP, Part 582.1033 - Animal feeds; REG - 172.755, 173.165

- Citronella - ESO, GRAS, 182.20

- Citrus bioflavonoids - DS, ILL, Any claim for special dietary use renders the food misbranded (Vitasafe Case)

- Citrus peels - ESO, GRAS - 182.20

- Civet (zibeth, zibet, zibetum) - ESO, GRAS - 182.20

- Clary (clary sage) - SP/ESO, GRAS - 182.10 and 182.20

- Clopidol (3,5-Dichloro-2,6-dimethyl-4-pyrindol) - FEED, REG, 0.02 ppm - Residues in milk - 556.160; 0.2 ppm - Residues in cereal grains, veggies, fruits, meat of cattle, sheep and goats, and in edible tissues of swine - 556.160; 1.5 ppm - Residues in liver of cattle, sheep & goats - 556.160; 5 ppm - Residues in muscle of chicken & turkeys - 556.160; 5 ppm - Residues in liver & kidneys of chickens & turkeys - 556.160; Uses in chicken & turkey feeds - 558.175

- Clopyralid - HERB, REG, Tolerances for residues - 40 CFR 180.431

- Cloxacillin - VET, REG, 0.01 ppm - Residues in milk; uncooked edible tissue of cattle - 556.165

- Clove, bud, leaf, and stem - ESO, GRAS - 184.1257
• Clover - SP/ESO, GRAS - 182.10 and 182.20
• Cloves - SP, GRAS - 184.1257
• Coatings on fresh citrus fruits - CTG, REG, GMP - 172.210
• Cobalt (acetate, carbonate, chloride, oxide, sulfate) - NUTR, GRAS, As nutritional dietary supplement in animal feed - 582.80
• Cobaltous salts (acetate) - MSC, ILL, Illegal for use, 172.260 revoked chloride, sulfate) 8/12/66
• Cocoa (decoacized) - ESO, GRAS - 182.20
• Cocoa butter substitute from palm oil - GRAS, GMP - In the following food categories: confections and frostings; coatings of soft candy sweet sauces and toppings - 184.1259
• Cocoa butter substitute from coconut oil, palm kernel oil or both - ESO, REG, Coating material for vitamins, citric acid, succinic acid and spices. In lieu of cocoa butter in sweets - 172.861
• Cocoa with diocyl sodium sulfosuccinate for manufacturing - FLV, REG, 75 ppm of finished beverage - 0 172.520
• Coffee - ESO, GRAS - 182.20
• Cognac oil, white and green - MISC, GRAS - 182.50
• Cola nut - ESO, GRAS - 182.20
• Colloidal silicon dioxide - AC, REG, X-ref - Silicon dioxide
• Combustion product gas - MISC, REG, GMP, To displace or remove oxygen in processing, stg, or pkging of beverage pdts and other foods, except fresh meats - 173.350
• Condensed animal protein hydrolysate - FEED, REG, < 5% poultry feed - For use - 573.200; < 10% cattle feed
• Copalina - FL/ADJ, REG, GMP, In conjunction w/flavors - 172.510
• Copals, Manila - MISC, REG, 73.1 - Diluents in color additive mixtures
• Copolymer condensates of ethylene oxide and propylene oxide - STAB, REG, GMP, Stabilizing agent in flavor concentrates; processin aid and wetting agent w/DSS for fumaric acid - 172.808; MISC, REG, 0.5% by weight of flour - In yeast leavened bakery products as a dough conditioner, if Standards permit its use - 172.808; Part 136 - Bakery Products; < 0.05% - Surfactant and defoaming agent in scale baths for poultry defeathering - 172.808
• Copper - PEST, REG, Tolerances for residues - 40 CFR 180.538; exemption from the requirement of a tolerance-40 CFR 180.1021
• Copper (carbonate, chloride, gluconate, hydroxide, ortho-phosphate, oxide, pyrophosphate, sulfate) - NUTR, GRAS, As nutritional dietary supplement in animal feed; PEST, REG, Tolerances for Residues - 40 CFR 180.136
• Copper gluconate - NUTR/DS, GRAS, GMP, In any food - 182.5260, 182.1260
• Copper (cuprous) iodide - NUTR/DS, GRAS, <0.01% - In table salt as a source of dietary iodine - 184.1265
• Copper sulfate - NUTR/SUPPL, GRAS, GMP, Processing aid - 184.1261
• Coriander - SP/ESO, GRAS - 182.10 and 182.20
• Cork, oak - FL/ADJ, REG, GMP, In alcoholic beverages only - 172.510
• Corn dextrin - NUTR/S, GRAS, GMP - 184.1277
• Corn gluten - GRAS, GMP - 184.1321
• Corn silk - ESO, GRAS - 182.20
• Corn sugar - NUTR/S, GRAS, GMP - 184.1857
• Corn syrup - NUTR/S, GRAS, GMP - 184.1865
• Corn syrup, High Fructose - NUTR/S, GRAS, GMP - 182.1866
• Costmary - FL/ADJ, REG, GMP, In alcoholic beverages only - 172.510
• Costus root - FL/ADJ, REG, GMP, In conjunction w/flavors - 172.510
• Cottonseed & soybean fatty acids - MISC, REG, GMP In foods as a lubricant, binder, defoaming agent & component in manufacture of other food grade additives - 172.860
• Cottonseed flour (cooked and partially defatted) - MISC, REG, See 172.894 for specifications
• Cottonseed Products (modified) - MISC, REG, 60 ppm N-hexane < 1% fat by wt of finished product - Decorticated ground cottonseed kernels - 172.894
• Coumaphos (0,0-Diethyl-3-chloro-4-methyl-2-oxo-2H-1-benzopyran-7-yl phosphorothioate) Tolerances for Residues 40 CFR 180.189; Uses in cattle & chicken feeds - 558.185
• Coumarin - SY/FS, BAN, Any food containing coumarin added as such or as a constituent of tonka beans or tonka extract is adulterated.
• Coumarine-idene resin - CTG, REG, < 200 ppm fresh wt basis on fruit - As protective coating for fruit - 172.215
• Crambe meal, heat toasted - 573.310
• Cryolite (Sodium aluminum fluoride) - fluorine compounds - Tolerances for Residues 40 CFR 180.145
• Cubeb - FL/ADJ, REG, MP, In conjunction w/flavors - 172.510
• Cumin (cummin) - SP/ESO, GRAS - 182.10 and 182.20
• Cumin, black (black caraway) - SP, GRAS - 182.10
• Cuprous iodide - NUTR/DS, GRAS, 0.01% - In table salt as a source of dietary iodine - 184.1265
• Curacao orange peel (orange, bitter, peel) - ESO, GRAS - 182.20
• Curdlan - MISC, EMUL, STAB, REG/FS, GMP - 172.809
• Current black, buds & leaves - FL/ADJ, REG, GMP, In conjunction w/flavors - 172.510
Cyano(3-phenoxphenyl)-methyl-4-chloro-alpha-(1-methylethyl) benzeneacetate - PEST, REG, 20 ppm - As residue in apple pomace to be used in animal feeds - 561.97; PEST, REG, Tolerances for Residues - 40 CFR 180.379

Cyclamates - NNS, ILL, NOT LEGAL IN FOOD
Cyclohexane - MISC, REG, 73.1 - Diluents in color additive mixtures
Cyclohexylamine - BC, REG, 10 ppm in steam - Except in steam in contact with milk and milk products - 173.310
Cyfluthrin - INSECT, REG, Tolerances for Residues 180.436
Cyhexatin - INSECT, REG, Use: In animal feed - Tolerances for Residues 40 CFR 180.144
Cyromazine - PEST, REG, Tolerances for Residues 40 CFR 180.414
Cysteine (I-form) - MISC, FS, 0.009 parts per 100 parts flour by wt. - Part 136 - Bakery Products; 184.1271; 184.1272; NUTR/DS, REG - 172.320
Cysteine (I-form) monohydrochloride - MISC, GRAS - 184.1272 - Used to supply up to 0.009 part of total L-cysteine per 100 parts of flour in dough as a dough strengtheners
Cytochrome C - NUTR/DS, REG - 172.320

Deca lactone alone or comb/w dodecalactone - FLAV, REG, <10 ppm alone or <20 ppm comb - As artificial flavoring in oleomargarine. Part 166 - 172.515
1-Decanol - SYN fatty alcohol - 172.864
Decoquinate - FEED, REG, 2 ppm - In uncooked edible tissue, other than skeletal muscle, of chicken and goats as a residue - 556.170; ppm - In skeletal muscle of chickens as a residue - 556.170; Use: In dry and liquid medicated feed - 558.195
Decyl alcohol, synthetic - MISC, REG, GMP, See Fatty alcohols, synthetic - 172.864
Defoaming agents and components Dimethylpolysiloxane, polyoxyethylene 40 monostearate, Polysorbate 60, Polysorbate 65, propylene glycol alginate, silicon dioxide, sorbitan monostearate, aluminum stearate (For use in processing beet sugar and yeast only - 173.340); butyl stearate, BHA, BHT, calcium stearate, fatty acids, hydroxylated lecithin, isopropyl alcohol, magnesium stearate, mineral oil, petrolatum, odorless light petroleum hydrocarbons, Petroleum waxes, Synthetic isoparaffinic petroleum hydrocarbons, Oxystearin, Polyethylene glycol, Polyethylene glycol (600) dioleate, Polyethylene glycol (600) mono-ricinoleate, polypropylene glycol, polysorbate 80, potassium stearate, propylene glycol mono & diesters of fats and fatty acids, soybean oil fatty acids - hydroxylated; tallow - hydrogenated, oxidized, or sulfated; hydrogenated tallow alcohol. n-Butoxypropyloxycethylenyl (AF, REG, For use in processing beet sugar and yeast only - 173.340); polyoxypropylene glycol formaldehyde, sodium polyacrylate, synthetic petroleum wax, oleic acid from tall oil fatty acids - AF, REG, In foods. See individual chemicals for uses and limitations - 173.340
Defoaming agents, butter, oleomargarine, lard, corn oil, coconut oil, cottonseed oil, mono- and diglycerides of fat-forming fatty acids - AF, REG/FS, GMP, In fruit butters, jellies, preserves and related products - Part 150
Decyloctane acid or its Na salt - PRES, REG, 65 ppm as the acid - In cut or peeled squash - 172.130
Demeton, alone or comb/w 0.0 diethyl S-2-(ethylthio) ethyl phosphorodithioate - PEST, REG, Tolerances for Residues - 40 CFR 180.183
Dextrins (avg mol wt <100,000) - MISC, GRAS
Diacyetyl - SY/FL, GRAS, GMP - 184.1278
Dextrin - GRAS - 184.1277
Dextrose - GRAS - 84.1857
Diacetyl tartaric acid esters of mono- and diglycerides of edible fats or oils, or edible fat-forming fatty acids - EMUL, GRAS/FS, Part 136, Bakery Products - 184.1101
2,4-Diamino-5(6-methylveratryl)pyrimidine - FEED, REG, See Ormetoprim
Di-N-alkyl(C8-C18-from coconut oil) dimethyl ammoniumchloride - PEST, REG, 5% by weight - 172.710
Dialkanolamide (1 mole of methyl laurate w/ 1.05 mole of diethanolamine) - MISC, REG, < 2 ppm in flume - Used in flume water for washing sugar beets prior to slicing operation - 173.315
Diammonium phosphate - FEED, REG, < 2.0% of crude protein in total daily ration - Source of non-protein nitrogen & phos in ruminant feeds. See 573.320
Diatomaceous earth - FEED, REG, 2% - As an inert carrier or anti-caking agent in animal feed - 573.340
2,2-Dibromo-3-nitropropionamide - PRES, REG, 2.0 -10.0 ppm in raw cane or beets - Used alone for control of microorganisms in cane and beet sugar mills, byproducts not for use in animal feeds - 173.320
Dicalcium phosphate - NUTR/FS, GRAS/FS, Part 137; XREF calcium phosphate
Dicamba - HERB, REG, Tolerances for Residues - 40 CFR 180.227
Dichlorodifluoromethane - MISC, REG, GMP, Direct contact freezing agent for foods - 173.355; With ethylene oxide as fumigant for ground spices
• 3,5-Dichloro-2,6-dimethyl-4-pyridinol - See Clopidol
• Dichloroisocyanuric acid - SANI, REG, <100 ppm avail halogen - Adequate drainage - 178.1010
• 2,4-dichlorophenoxyacetic acid - PEST, REG, See 2,4-D
• Dichlorvos (2,2-dichlorovinyl dimethyl phosphate or DDVP) - FEED, REG, 0.1 ppm - In edible tissues of swine -556.180; Use & other information - 558.205: 520.600; PEST, REG, Tolerances for Residues - 40 CFR 180.235
• Diethanolamide condensate from soybean oil fatty acids (C16-C18) - Adjuvants for pesticide use dilution -172.710
• Diethanolamine condensate from stripped coconut oil fatty acids (C10-C18) - Adjuvants for pesticide use dilution -172.710
• Diethylaminoethanol - BC, REG, 15 ppm - X-ref; Boiler water additives - 173.310
• Diethylene glycol monoethyl ether - SANI, REG, GMP, Adequate drainage - 178.1010
• Diethylether - Ion-exchange membranes - 173.20
• Diethylether crosslinked with epichlorohydrin - Ionom-exchange resins - 173.25
• Diazinon (O,O-Diethyl O-(2-isopropyl-6-methyl-4-prim-idyl) phosphorothioate - FEED, REG, GMP, In feed handling establishments for crack/crevice and spot treatment -PEST, REG, Tolerances for Residues - 40 CFR 180.153
• Diethylene glycol monophenyl ether - REG, 150 ppm - Decolorizing agent in clarification of sugar liquors and juices - 173.60
• Diethanolamine condensate from stripped coconut oil fatty acids (C10-C18) - MISC, REG, <700 ppm by wt of sugar solids - Decoloring agent in the manufacture of sugar, alkyl groups (C14-C18) derived from tallow - 173.400

Diethylamine - Component of Ion-exchange membranes - 173.20

0,0-Dimethyl S[4-oxo-1,2,3-benzotriazin-3(4H)-yl]methyl phosphorodithioate (Guthion) - PEST, REG, Tolerances for Residues - 40 CFR 180.154

• Dimethyl phosphate of 3-hydroxy-N,N-dimethyl-cis-crotonamide - AF, REG, 150 ppm - In milk -173.340; 110 ppm - In dry gelatin dessert mixes; 250 ppm In salt for cooking purposes; 10 ppm - In other food in its ready-for-consumption state, 145.180(a), Cnd Pineapple; 146.185(a), Cnd Pineapple Juice

• Dimetridazole - FEED/VET, REG, ZERO - NOT LEGAL FOR ANIMAL USE

Di-N-alkyl(C8-C10)dimethylammonium chloride - SANI, REG, 150 ppm - Of active quaternary compound in the sanitizing solution - 178.1010

Di-n-alkyl(C8-C10)dimethylammonium chloride, n-alkyl(C12-C18) benzylidimethyl-ammonium chloride, ethyl alcohol and alpha-(p-nonyl-phenyl) - omega-hydroxypropylox (oxyethylene) - SANI, REG, 150 - 400 ppm - For use as components of sanitizing solutions to be used on food contact surfaces - 178.1010

3,5-Dinitrobenzamide - FEED, REG, ZERO - In edible tissues and by-products of chickens; As residue 556.220; Feed use - 558.376

2,4-Dinitro-6-octylphenyl crotonate+2,6-dinitro-4-octylphenyl crotonate - FUNG/PEST, REG, Tolerances for Residues - 40 CFR 180.342

• Dioctyl sodium sulfosuccinate - SDA, REG/FS, <0.5% of wt of gums or hydrophilic colloids - As solubilizing agent for gums & hydrophilic colloids used in food as stabilizing or thickening agents - 172.810; <0.4% by wt. In cocoa for manufacturing - 163.117, 172.810; 75 ppm - In finished beverage made with cocoa with DDS - 172.520; 15 ppm in finished gelatin - Wetting agent in fumaric acid acidulated gelatin desserts, including: Dry Gelatin Desserts; 10 ppm in finished beverage or fruit juice drink - dry beverage base, and fruit juice drinks when standards of identity do not preclude such use - 172.810; 25 ppm of finished beverage - As emulsifying agent for cocoa fat in non-carbonated bev containing cocoa - do; REG, <0.5 ppm per percent of sucrose - Processing aid in mfr of sugar - 172.810 <25 ppm i
• Dipotassium phosphate - SEQ, GRAS/FS, Part 133.169, Past Process Cheese - 182.6285
• Diquat - HERB, REG, Tolerances for Residues - 40 CFR 180.226
• Disodium cyanidolithioimidocarbonate - MISC, REG/FS, 100 ppm - Promote color retention in frozen white potatoes incl cut potatoes - 172.135; 110 ppm - Canned potatoes 155.200; 165 ppm - For color retention in cnfd cooked legumes (all cooked, canned other than black-eyed peas) or kidney beans; 315 ppm - Promote color retention in dried banana comp of ready-to-eat cereal pds; 145 ppm - Promote color retention in canned black-eyed peas, 155.200; 500 ppm - Promote color retention in canned strawberry pi filling, Part 145; 150 ppm - w/iron salts as a stabilizer for Vitamin B12 in liquid multivitamin preparations; 50 ppm - In gefilte fish balls; 36 ppm - As cure accelerator in cooked sausage; MISC, REG, 75 ppm alone or w/Ca disodium EDTA - In non-standardized dressings, sauces; French dressings, mayonnaise, salad dressing -172.135; 100 ppm alone or w/Ca disodium EDTA - In sandwich spread; 0.1% by wt of the dry sweeteners - As a sequestrant in non-nutritive sweeteners; FEED, REG, <240 ppm in feed - Used to solubilize trace minerals which are added to animal feeds - 573.360
• Disodium cyanidolithioimidocarbonate - For control of micro-organisms in cane sugar and beet sugar mills -173.320
• Disodium ethylenediithiocarbamate - PRES, REG, 3.0 ppm in raw cane - w/Na dimethyldithiocarbamate for control of microorganisms in mills - 173.320; 3.0 ppm in raw cane or sugar beets - w/ethylenediamine and Na dimethyldithiocarbamate for control of micro-org. in cane sugar and beet sugar mills - ibid
• Disodium guanylate - MISC, REG/FS, GMP, Part 155, Cnd Vgs - 172.530
• Disodium inosinate - FL/ADJ, REG, GMP, Part 155, Cnd Vgs - 172.535
• Disodium phosphate (X-ref - Sodium phosphate, mono-, di-, & tri-) - SEQ, GRAS/FS, Part 137.305, Enriched Farina; 136.3, Bakery Pdts; EMUL, GRAS/FS, 139, Alimentary Pastes; 131.130 NFDM; 133, Cheeses, Various; 135.30, Ice Cream; 150, Art Sw Jelly
• Diuron (3-(3,4 dichlorophenyl)-1,1-dimethyleurea) - PEST, REG, 4 ppm - In dried citrus pulp for livestock feed applic of the pesticide tc growing citrus fruits - 561.220
• Dodcylbenzenesulfonic acid - SANI, REG, <400 ppm in soln - Adequate drainage; May be used on glass containers for holding milk - 178.1010
• a-(p-Dodecylphenyl)-omega-hydroxypoly(oxyethylene) - PEST, REG, GMP, Adj for pesticide use - 172.710
• Dog grass (quackgrass, triticum) - ESO, GRAS - 182.20
• Dulcin - NNS, ILL - Not legal in food
• Dulse - NAT, GRAS
• D EDTA - See Calcium disodium EDTA and Disodium EDTA
• EDTA, Tetrasodium - Components of boiler water additives - 173.310 - washes for peeling fruits and vegetables, 173.315
• Efrotrimycin - VET, FEED, - Swine to improve feed efficiency - 558.235
• Elder Flowers - SP/ESO, GRAS - 182.20, 182.10
• Enanthic acid - MISC, REG, <1% aliphatic acids - In peeling soln for fruits & vgs - 173.315
• Endosulfan - PEST, REG, Tolerances for Residues - 40 CFR 180.182
• Enzyme-modified soy protein - MISC, FD, GMP, Foaming agent in soda water
• Enymes, carboxydrase & cellulase, from Aspergillus niger - ENZ, REG, GMP, For removal of visceral mass in clam processing - 173.120
• Enzymes from Aspergillus oryzae - ENZ, FS, Part 136, Bakery Pdts
• Enzymes (for milk clotting) from Endothis parasitica, Bacillus cereus, Mucor pusillus , Mucor miehei Cooney et Emerson, or Aspergilus oryzae modified by recombinant aspartic proteinase enzyme from Rhizomucor miehei - ENZ, REG, GMP, For use in preparation of standardized cheese or cheese products, except enzyme from B cereus is not suitable for cheese in Sec. 133.195, 133.19f - 173.150
• Enzyme-Modified Fats - FLAV/ADJ, GRAS, GMP - 184.1287
• Epichlorohydrin - MISC, REG, < 0.1% with propylene <10% added in combination or in any sequence - Residual propylene chlorohydrin 5 ppm in food starch modified -172.892; < 0.1% followed by propylene oxide < 25% -172.892
• Epoxidized soybean oil - STAB, REG, Not to exceed 1 percent - Use as a halogen stabilizer in brominated soybean oil - 172.723
• Erythorbic acid - PRES, GRAS/FS, X-ref - Isoascorbic acid
• Erythromycin, Erythromycin thiocyanate or phosphate - FEED, REG, ZERO - In uncooked edible tissues of chickens, turkeys - 556.230 0.125 ppm - In uncooked edible tissue of beef cattle, and in milk - 556.230; Use: In drinking water as phosphate - 522.842; 0.1 ppm (neg res) - In uncooked edible tissues of swine; 0.025 ppm - In uncooked eggs as residue - 556.230; Use: 558.55, 558.58,558.62, 558.248, 558.680
• Esterase-lipase from Mucor miehei - ENZ, REG, GMP, Flavor enhancer in cheese, fat, oils, milk products - 173.140
• Estradiol - VET, REG, Use: Implant in cattle (steers/heifers) - 522.840
• Estradiol benzoate - VET, REG, ZERO*** - In uncooked edible tissues and by-products of heifers, lambs & steers as residue - 556.240; Use as implants - 522.842; In combination w/testosterone propionate - 522.842; In combination w/progesterone - 522.19406; ***Tolerances in the Part Per Trillion (ppt) range have been established for these residues - See 556.240
• Estradiol valerate - VET, REG, ZERO - Use: As implant in combination with progesterone - 522.1940; NOT TO BE USED WITH VEAL
CALVES

- Estragole (or esdragol, estragon, esdragon, tarragon) - SP/ESO, GRAS - 182.20
- Ethaflurin - HERB, REG, Tolerances for Residues - 40 CFR 180.416
- Etelephon - PEST, REG, Tolerances for Residues - 40 CFR 180.300
- Ethion (0,0',0-,0-tetraethyl S,S' methylene bisphosphorodithionate) - PEST, REG, Tolerances for Residues - 40 CFR 180.173
- Ethopabate - FEED, REG, 1.5 ppm - In uncooked liver & kidneys of chickens as residue - 556.260; 0.5 ppm - In uncooked muscle of chickens as residue - 556.260; Feed uses - 556.55, 558.58, 558.62, 558.76, 558.78, 558.248, 558.460, 558.530
- Ethoxydriered mono- and di- glycerides - MISC, REG, Total not to exceed 0.5% of flour used - In yeast leavened bakery products as a dough conditioner and as an emulsifier in pan-release agents for yeast-leavened bakery products -172.834; EMUL, REG, Not to exceed 0.45% by wt. of finished topping - In whipped vegetable oil toppings and topping mixes - 172.834; Not to exceed 0.2% by wt of finished dessert - Emulsifier in frozen desserts, 172.834; Part 135, Frozen Desserts; Not to exceed 0.4% by wt of finished vegetable fat-water emulsions - In solid state, edible fat water emulsions as Coffee Creamer Substitute - 172.834; Not to exceed 5% of dry ingredients - In cakes & cake mixes - 172.834
- Ethoxyquin - FEED/AOX, REG, 5 ppm from use in forage crops - In uncooked vegetable of meats except poultry - 172.140l; 0.0003% - In or on uncooked liver & fat of poultry; 0.5 ppm (0.0005%) - In or on uncooked muscle meat of animals; 0.5 ppm (0.0005%) - In poultry eggs; Zero - In milk - 172.140; 150 ppm - In animal feed, fish food, and canned pet food - 573.380, 573.400; AOX, REG, 100 ppm - For preserving of color in prod of chili powder, ground chili, and papnka - 172.140; PEST, REG, Tolerances for Residues - 40 CFR 180.178
- Ethyl acetate - SY/FS, MISC, REG, GMP, GRAS - 182.60, In decaffeination of coffee & tea - 173.228
- Ethyl Alcohol (Ethanol) - INH, GRAS - 184.1293, 2.0% by wt - On pizza crusts prior to baking - 170.3; SANI, REG, GMP, Adequate drainage - 178.1010
- Ethyl cellulose - MISC, REG, GMP, As binder or filler in dry vitamin preps or component of protective cgt for vit & min tabs, or as fixativ in flavor compounds - 172.868; 573.420; In anima diamine dihydroiodide - DS, GRAS, Animal feed
- Ethylene dibromide - FUM, REG, < 50 ppm inorganic bromide - X-ref fumigant for grain-mill machinery
- Ethylene dichloride - SOLV, REG, 30 ppm - In pdtn of spice oleoresins - 173.230; MISC, REG, < 0.2 ppm in flume water - Used in flume water for washing sugar beets prior to slicing operation - 173.315; FUM, REG, X-ref fumigant for grain-mill machinery; SOLV, REG, 300 ppm in extracted by-products - In extraction processing of animal by-products for use in animal feeds - see section 573.440; PEST, REG, GMP, Adjuvant for pesticide use - 172.710
- Ethylene glycol monobutyl ether - SANI, REG, GMP, Adequate drainage - 178.1010; MISC, REG, < 1 ppm in flumewater - Used in flume water for washing sugar beets prior to slicing operation - 173.315
- Ethylene oxide - FUM, REG, Tolerances for Residues 40 CFR 180.151
- Ethylene oxide copolymer condensates - REG, 172.808; STAB, REG- 300 ppm by wt - Foam stabilize in fermented malt beverages - 172.770
- Ethylene oxide polymer, alkyl adduct - MISC, REG, NTE - 0.2 percent in lye-peeling solution to assist in the lye peeling of fruits and vegetables - 173.315
- Ethylene oxide polymer, alkyl adduct, phosphate ester - MISC, REG, NTE 0.2 percent in lye-peeling solution to assist in the lye peeling of fruits and vegetables - 173.315 Ethylene oxide/propylene oxide copolymer RGP, SDA - See specs section 172.808; MISC, Defoaming agent - 173.340 for use as prescribed in 172.808
- Ethylene oxide/proplylene oxide copolymer, alkyl adduct - MISC, REG, NTE 0.2 percent in lye-peeling solution to assist in the lye peeling of fruits and vegetables - 173.315
- Ethylene oxide/proplylene oxide copolymer, alkyl adduct, phosphate ester - MISC, REG, NTE 0.2 percent in lye-peeling solution to assist in the lye peeling of fruits and vegetables - 173.315
- Ethyl 4,4'-dichlorobenzilate - INSECT, REG, 5.0 ppm - As residue in/on citrus fruits - 180.109; 0.5 ppm - As residue in fat, meat by-products of sheep & cattle - do
- Ethyl ester of fatty acids - MISC, REG, Comp of coatings for raisins - 172.225
- Ethyl formate - SY/FL, GRAS, GMP, (See specs 184.1295); FL/ADJ
- Ethyl methylphenylglycidate - GRAS, SY/FL, GMP -
- Ethyl-4-hydroxy-6,7-dieobutoxy-3-quinoine carboxyl ate - FEED, REG, X-ref - Buquinolate
- Ethyl vanillin - SY/FL, GRAS/FS, Part 163, Chocolate and Cacao Pdts; Part 169, Vanilla Extract and Related Pdts -182.60, 182.90
- Eucalyptus globulus leaves - FL/ADJ, REG, GMP, In conjunction w/flavors - 172.620
- Euthopabate - FEED/AOX, REG, 5 ppm from use in forage crops - In uncooked vegetable of meats except poultry - 172.140l; 0.0003% - In or on uncooked liver & fat of poultry; 0.5 ppm (0.0005%) - In or on uncooked muscle meat of animals; 0.5 ppm (0.0005%) - In poultry eggs; Zero - In milk - 172.140; 150 ppm - In animal feed, fish food, and canned pet food - 573.380, 573.400; AOX, REG, 100 ppm - For preserving of color in prod of chili powder, ground chili, and papnka - 172.140; PEST, REG, Tolerances for Residues - 40 CFR 180.178
- Ethyl ester of fatty acids - MISC, REG, Comp of coatings for raisins - 172.225
- Ethyl formate - SY/FL, GRAS, GMP, (See specs 184.1295); FL/ADJ
- Ethyl methylphenylglycidate - GRAS, SY/FL, GMP -
- Ethyl-4-hydroxy-6,7-dieobutoxy-3-quinoine carboxyl ate - FEED, REG, X-ref - Buquinolate
- Ethyl vanillin - SY/FL, GRAS/FS, Part 163, Chocolate and Cacao Pdts; Part 169, Vanilla Extract and Related Pdts -182.60, 182.90
- Eucalyptus globulus leaves - FL/ADJ, REG, GMP, In conjunction w/flavors - 172.620
- Eucalyptus spinosum extract - MISC, EMUL, STAB, REG, GMP, < 0.2 percent in lye-peeling solution to assist in the lye peeling of fruits and vegetables - 173.315
- Eugenol - SY/FL, GRAS - 184.1257
- Exfoliated hydrobiotite (Verxite) - FEED, REG, <5% wt. finished feed - In poultry, swine or ruminant feed as anti-caking, blending agent, pelleting aid or nonnutritive carrier for incorporation of nutrients - 573.100; <1.5% -Anticaking, blending agent, etc. in dog feed - 573.100
- F

- Famphur (0,0-dimethyl O-(dimethyl-sulfamoyl) phenyl phos phorothioate) - PEST/VET, REG, Use: In animal feed - 558.254; As pou on liquid - 524.900; As paste in combination with Levamisole - 520.1242g
- Fatty acids - one or any mixture of straight chain monobasic carboxylic acids & associ. fatty acids from edible fats and oils (capric, caprylic, lauric, myristic, oleic, palmitic, and stearic acids) - MISC, REG, GMP, In foods as a lubricant or binder; comp in mfr of other food-grade additives - 172.860; REG, GMP, Defoaming agent comp used in processing beet sugar and yeast - 173.340
- Fatty acids, salts of (aluminum, calcium, magnesium, potassium, and sodium) - MISC, REG, In foods as binder, emulsifier, and
anticaking agent - 172.863; FEED, REG, GMP, 573.640; CTG, REG, X-ref - coatings on fresh citrus fruit - 172.210

- Fatty alcohols, synthetic hexyl, octyl, decyl, lauryl, myristyl, cetyl, and stearyl alcohols - MISC, REG, As substitutes for the corresponding naturally derived fatty alcohols permitted in foods by existing regulations - 172.864

- Fenarimol - FUNG, REG, 2 ppm - As residue in/on wet or dry apple pomace - Tolerance for Residues 40 CFR 180.421

- Fenbendazole - VET, REG, 0.8 ppm - Residues in Cattle liver - 556.275; Use: Cattle (Suspension) - 520.905a; (Powder) - 520.905d; (Block) - 520.905e; (Feed) - 558.258

- Fendrazen - potassium salt; Tolerances for Residues - 40 CFR 180.423

- Fenel, common - SP, GRAS - 182.10

- Fenel, sweet (Finochio, Florence) - SP/ESO, GRAS -182.10, 182.20

- Fenoxapro-ethyl - PEST, HERB, REG, Tolerances for residues- 40 CFR 180.430

- Fenprostalene - VET, REG, 10 ppb - Residues in uncooked edible muscle - 556.277; 20 ppb - Residues in uncooked edible liver - do; 30 ppb - Residues in uncooked edible kidney - do; 40 ppb - Residues in uncooked edible fat - do;100 ppb - Residues at the injection site - do; Use as injection: Induce abortion: Feedlot heifers: 522.914; Estrus control: Beef/non-lactating dairy cattle - 522.914

- Fenrizadon - PEST, REG, Tolerances for Residues - 40 FR 180.423

- Fenithion - PEST/VET, REG, Tolerances for Residues - 40 CFR 180.214; As pour on liquid 524.920

- Fenugreek - SP/ESO, GRAS - 182.10, 182.20

- Fermentation derived milk-clotting enzyme - ENZ, REG, In production of cheese for which permitted by standards of identity - Part 13: Limited to certain organisms, (See specs in 173.150)

- Fermented ammoniated condensed whey - See Whey, fermented ammoniated condensed

- Ferric ammonium chloride - NUTR, GRAS, GMP - 184.1296

- Ferric chloride - NUTR, GRAS, GMP - 184.1297

- Ferric citrate - NUTR, GRAS, GMP - 184.1298

- Ferric phosphate - NUTR/DS, GRAS, GMP - 182.5301, 184.1301

- Ferric pyrophosphate - NUTR/DS, GRAS, GMP - 182.5304, 184.1304

- Ferric sodium pyrophosphate - NUTR/DS, GRAS, GMP - 182.5306

- Ferric sulfate - NUTR, GRAS, GMP - 184.1307

- Ferrous ascorbate - NUTR, GRAS, GMP - 184.1307a

- Ferrous carbonate - NUTR, GRAS, GMP - 184.1307b

- Ferrous citrate - NUTR, GRAS, GMP - 184.1307c

- Ferrous fumarate - DS, REG, Consistent w/good nutrition practices - Used as source of dietary iron in special dietary foods - See sectio 172.350

- Ferrous gluconate - NUTR/DS, GRAS, GMP - 182.5308, 184.1308

- Ferrous lactate - NUTR/Color fixative for ripe olives, GRAS, GMP - 184.1311, DS, GRAS, GMP - 182.5311

- Ferrous sulfate - NUTR/DS, GRAS, GMP - 182.5315, 184.1315

- Fir ("pine" & "balsam") needles and twigs - FL/ADJ, REG, GMP, In conjunction w/flavors - 172.510

- Fish protein concentrate, whole - DS, REG, (See specs in 172.385)

- Fish protein isolate - DS, REG, (See specs in 172.340)

- Flavoring substances, natural - FLAV, REG, GMP - 172.510

- Fluazifop-butyl - PEST, REG, - Tolerances for Residues - 40 CFR 180.411

- Fluometuron - HERB, REG, Tolerances for Residues - 40 CFR 180.229

- Fluorine - containing compounds (Sodium, potassium, or calcium fluoride) - MISC, PD, ILL - Petition for extension in dietary supplements terminated in of 7-1-73. Addition of fluorine compounds to foods limited to that from fluoridation of public water supplies and to that resulting from the fluoridation of bottled water within limits set in 103.35. Refer to section 170.45 for statement of policy.

- Fluoridone - HERB, REG, Tolerances for Residues - 40 CFR 180.420

- Folic acid (folacin) - NUTR, REG, GMP, May be added to foods subject to a standard of identity when standard of identity provides for addition of folic acid. May be added 400 µg per serving to breakfast cereals, to infant formula 4 µg per 100 kcal of infant formula, 1 mg/1 lb. of corn grits, to foods represented as meal-replacement products 400 µg/serving if the food is a meal-replacement that is represented for use once/day or 200 µg/serving if the food is a meal-replace-ment that is represented for use more than once/day. May be added to medical food at levels not to exceed the amount necessary to meet the distinctive nutritional requirements of the disease or condition for which the food is formulated, and for food for special dietary use not to exceed the amount necessary to meet the special dietary needs for which the food is formulated - 172.345

- Food additives for use in milk producing animals for treatment of bovine mastitis - VET, REG, 528.820 - See BHA & BHT

- Food starch, modified - MISC, REG, GMP, See 172.892. Add "amyloytic enzymes" to various chemicals permitted in modifying food starch that are listed in the regulation.

- Food starch esterified with n-octenyl succinic anhydride treated with beta-amylase; For use as a stabilizer or emulsifier in non-alcoholic beverages and beverage bases

- Formaldehyde (paraformaldehyde) - PRES, REG, Comp of defoaming agent - 173.340; MISC, REG, GMP, In animal feeds composed of oilseed meals and animal fat - 573.460; See also formalin

- Formalin - FUNG, REG, Use: In water of salmon, trout, largemouth bass, catfish and bluegills - 529.1030; See also formaldehyde

- Formesafen Sodium - PEST, REG, Tolerances for Residues - 40 CFR 180.433
• **Formetanate hydrochloride** - PEST, REG, Tolerances for Residues - 40 CFR 180.276

• **Formic acid (x-ref - Ethyl formate)** - PEST, REG, 2.25% of Silage on a dry basis -or- 0.45% when direct cut, 573.480; Preservative for silage. Silage not to be fed to live stock within 4 weeks of treatment. GRAS, GMP - 186.1316

• **Fumaric acid and its calcium, magnesium, potassium, and sodium salts** - MISC, REG/FS, GMP, (See specs in 172.350); Part 150.140, Fruit jellies; Part 150.160, Fruit preserves

• **Fumaric acid-Ferrous salt** - DS, REG, Consistent w/good nutrition practices - X-ref Ferrous fumarate

• **Fumigants (Carbon tetrachloride with either carbon disulfide or ethylene chloride, with or without pentane; or methyl bromide)** - FUM, REG, Tolerances for Residues (bromide) - 40 CFR 180.123 and 40 CFR 180.123a

• **Fumigants for Grain Mill Machinery**, Tolerances for Residues - 40 CFR 180.519; Fumigants for Processed Grains used in production of fermented malt beverages, Tolerances for Residues - 40 CFR 180.522

• **Furazolidone** - VET, REG, ZERO NOT PERMITTED FOR USE IN ANIMAL FEEDS - USE WITHDRAWN 8/23/91

• **Furcelleran** - MISC, EMUL, STAB, REG/FS, GMP, (See specs in 172.655 Part 135.30, Ice Cream

• **Furcelleran, salts of ammonium, calcium, potassium, or sodium** - MISC, EMUL, STAB, REG/FS, GMP - 172.660 Part 135.30, Ice Cream

• **G alpha-Galactosidase from morteirella vinaceae raffinoseutilizer ENZ**, REG, For use in the production of sucrose from sugar beets - 173.145

• **Galanga (galangal root)** - SP/ESO, GMP, GRAS - 182.10,

• **Galanga, greater** - FL/ADJ, REG, GMP, In alcoholic beverages only - 172.510

• **Gallbanum** - FL/ADJ, REG, GMP, In conjunction w/flavors only - 172.510

• **Gentian rhizome & roots** - FL/ADJ, REG, GMP, In conjunction w/flavors only - 172.510

• **Gentian, stemless** - FL/ADJ, REG, GMP, In alcoholic beverages only - 172.510

• **GENTIAN VIOLET** - FUNG, REG, VET, PROHIBITED FROM USE IN ANIMAL FEEDS - 589.1000

• **Gentamicin Sulfate** -VET, REG, 0.1 ppm - Residues in uncooked edible tissue of turkey - 556.300; Residues in swine muscle - do; 0.3 ppm - Residues in swine liver - do; 0.4 ppm - Residues in swine fat & kidney - do; Use: Oral Solution, 520.1044a, 520.1044b; Soluble Powder 520.1044c; Injection, 524.1044;

• **Geraniol (3,7-dimethyl-2,6 and 3,6-octadien-1-ol)** - SY/FL, GRAS - 182.60

• **Geranium** - SP/FLAV/ESO, GRAS - 182.20

• **Geranium, East Indian or rose** - ESO, GRAS - 182.20

• **Geranyl acetate (geraniol acetate)** - SY/FL, GRAS - 182.60

• **Germander, chamaedrys or golden** - FL/ADJ, REG, GMP, In alcoholic beverages only - 172.510

• **Ghatti gum** - EMUL, GRAS, Limited to 0.2 percent of foods defined in § 170.3(n)(3) and 0.1 percent in all other foods; (See specs in 184.1333)

• **Gibberellic acid and its potassium salt** - MISC, REG, <2 ppm - In malt; <0.5 ppm - In finished malt beverage; ZERO - In distilled spirits - 172.725

• **Gigartina extracts** - MISC, EMUL, STAB, REG, FS, See Carrageenan - 172.620

• **Ginger** - SP/ESO, GRAS - 182.10, 182.20

• **Gluconate salts of Ca and Na** - MISC, FS, See limitations on use levels for Ca salt in 184.1199; GMP, Na salt 182.6757

• **Glucono delta-lactone** - MISC, GRAS, GMP, FS, As curing or pickling agent, leavening agent, sequestrant, or pH control agent (See specs in 184.1318)

• **Glutamic acid (or hydrochloride)** - NUTR/DS, REG, (See specs in 172.320); GRAS as a salt substitute in 182.1045 and 182.1047

• **Glutamic acid, condensed extracted fermentation product** - FEED, REG, <5% of total ration - Protein supplement in poultry feed - 573.390; <10% of feed - Protein supplement in cattle feed

• **Glutamine** - NUTR, REG, (See specs in 172.320)

• **Glutaraldehyde** - MISC, GMP, Fixing agent for the immobilization of glucose isomerase for use in the manufacture of high fructose corn syrup, in accordance with Sec. 184.1372 - 173.357

• **Glycerides and polyglycides of hydrogenated vegetable oils** - MISC, Used as an excipient in dietary supplement tablets, capsules, and liquid formulations - See 172.736 for specifications and limitations.

• **Glycerol** - MISC, REG, GMP, In food. (See 172.866 for specs)

• **Glycerin** - MISC, GRAS/FS, GMP, Part 169, Food Flavorings, 182.1320; Part 582 - Animal feeds

• **Glycerol ester of gum rosin** - MISC, REG, <100 ppm in beverages - 172.735; GMP, Softener for chewing gum base (See specs in 172.615)

• **Glycerol ester of partially dimerized rosin** - MISC, REG, GMP, Comp of chewing gum base (See specs in 172.615)

• **Glycerol ester of partially hydrogenated gum or wood rosin** - MISC, REG, GMP, Comp of chewing gum base (See specs in 172.615)
- **Glycerol ester of polymerized rosin** - MISC, REG, GMP, Softener for chewing gum base (See specs in 172.615)
- **Glycerol ester of tall oil rosin** - MISC, REG, GMP, Softener for chewing gum base (See specs in 172.615)
- **Glycerol ester of wood rosin** - MISC, REG, GMP, Softener for chewing gum base (See specs in 172.615)
- **Glycerol (glyceryl) tributyrate (tributyrin, butyrin)** - SY/FL, GRAS, GMP - as flavoring agent and adjuvant - 184.1903
- **Glycerol behenate** - MISC, GRAS, GMP, As formulation aid in tablets - 184.1328
- **Glyceryl-lacto esters of fatty acids** - EMUL, MISC, REG, GMP - 172.852
- **Glycerol monooleate** - MISC, GRAS, SY/FL, GMP, As flavoring agent and adjuvant - 184.1323
- **Glycerol (glycerol) monostearate (monostearin)** - MISC, GRAS/FS, GMP - <2% of product - Macaroni products - 139.110; <3% of product - Noodle products - 139.150
- **Glycerol palmitostearate** - GRAS, GMP, Use as a formulation aid in excipients for tabs - 184.1329
- **Glycerol triacetate (triacetin)** - MISC, SY/FL, GRAS, GMP, As flavoring agent and adjuvant - 184.1901
- **Glyceryl tristeareate** - MISC, REG, See Reg - 172.811
- **Glycine** - MISC, REG, 0.2% of fin bev or bev base Masking agent for saccharin in beverages & bases - 172.812; STAB, 0.02% - In mono- and diglycerides - 172.812; NUTR - 172.320
- **Glycoryrrhiza** - SP/ESO, GRAS, See Reg - 184.1408
- **Glycyrrhizin, ammoniated** - ESO, GRAS/FS, See Reg - 184.1408
- **Gonadorelin** - VET, REG, Use: As injection for cattle - 522.1077
- **Gonadotropin (Serum) and Gonadotropin (Chorionic)** - VET, REG, Use: As injection for cattle - 522.1079
- **Grains of paradise** - SP, GRAS, GMP - 182.10
- **Grapefruit** - ESO, GRAS, GMP - 182.20
- **Ground Limestone** - GRAS, GMP - 184.1409
- **Guaiac** - FLAV, REG, GMP, In alcoholic bevs only - 172.510
- **Guarana** - FL/ADJ, REG, GMP, In conjunction w/flavors - 172.510
- **Guar gum** - STAB, GRAS/FS, See Reg - 184.1339; Parts 133, Cheese (to include cold pack cheese food); Part 135, Ice Cream; Part 169, Dressing for Foods; Part 150, Art Sw Jelly & Preserves
- **Guava** - ESO, GRAS, GMP - 182.20
- **Gum arabic (Acacia)** - STAB, GRAS/FS, GMP, See Reg - 184.1330; Part 169, Dressings for Foods; Part 135, Ice Cream; Part 169, Vanilla Powder
- **Gum ghatti** - STAB, GRAS/FS, < 0.2% As emulsifier in non-alcoholic bevs - 184.1333; < 0.1% in all other foods - 184.1333
- **Gum gluten** - STAB, FS, GMP, Part 139, Macaroni Products
- **Gum karaya** - STAB, GRAS/FS, See Reg - 184.1349; Part 133, Cheese; Part 169, Dressings for Foods; Part 135, Ice Cream; Part 150, Art Sw Fruit Jelly & Jam
- **Gum tragacanth** - STAB, GRAS/FS, See Reg - 184.1351; Part 133, Cheese; Part 135, Ice Cream; Part 169, Dressings for Foods; Part 150, Art Sw Fruit Jelly & Jam
- **Gums (natural) of vegetable origin** - MISC, REG, GMP, Chewing gum base - 172.615
- **Guta Hang Kang** - MISC, REG, GMP, Chewing gum base - 172.615
- **Guthion** - PEST, REG, See (O,O.-dimethyl-S[4-oxo-1,2,3-benzotriazin-3-(4H)-yi methyl]phosphorodithioate)

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**Color Additive Status List**

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