

U.S. Department of Health & Human Services

U.S. Food & Drug Administration

Food

9

Home Food Food Ingredients & Packaging Food Additives

Food Additive Status List

Color Additive Status List¹

Disclaimer

FDA offers this list as a service to the Field Offices. Inclusion of a substance in the Food Additive Status list does not necessarily represent its legal regulatory status. The regulations for food additives in 21 Code of Federal Regulations need to be consulted. More >>

Forward | Abbreviations

Additives: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

FOREWORD

This Food Additives Status List, formerly called Appendix A of the Investigations Operations Manual (IOM), organizes additives found in many parts of 21 CFR² 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 Food Additives Status List includes short notations on use limitations 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 Register³ as promulgated. Also refer to the Food Ingredient and Packaging inventories⁴ in the Foods section of the FDA web site to review several FDA databases of additive categories. For example, the EAFUS list⁵ (Everything Added to Food in the United States), is a helpful reference within the limitations described at the beginning of the database.

NOTE: Pesticide chemicals from 40 CFR 180 for which EPA has set tolerances in food that are enforced by FDA have been removed from this list.

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

- Obviously safe substances not cited in a regulation as Generally Recognized as Safe (GRAS). You may find such substances in the GRAS Notice Inventory.⁶ on the FDA web site. This site contains notices received from companies since 1998, and FDA's response.
- 2. Synthetic flavoring substances in 21 CFR 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. Those pending administrative determination.
- 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.
- 5. 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 Indirect Additives Used in Food Contact Substances⁷. Use it to locate the regulation in which its use is fully described. In 1997, FDA implemented a new Food Contact Notification program for certain food contact Substances. These notifications are effective only for the manufacturer or supplier identified in the notification. A list of Effective Food Contact Substance (FCS) Notifications⁸ is available on the FDA web site.
- 6. Color additives, 21 CFR Parts 70, 71, 73, 74, 80 & 82. Go to the Color Additives Status List⁹.

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

Display all abbreviations used

Technical Effects					
Technical Effects					
Type Kind, effect or use of additive	Туре	Kind, effect or use of additive			
C Anticaking agent	AF	Antifoaming (or defoaming) agent			
OX Antioxidant	BC	Boiler compound			
L Bleaching agent or flour-maturing agent	B&N	Buffer and neutralizing agent			
TG Component or coating for fruits & vegetables	DS	Dietary supplement			
MULEmulsifier	ENZ	Enzyme			
SO Essential oil and/or oleoresin (solvent free)	FEED	Substances under the Food Additives Amendment added directly to feed			
LAV Natural flavoring agent		Substance used in conjunction with flavors			
FUM Fumigant		Fungicide			
IERBHerbicide	HOR	Hormone			

http://www.fda.gov/food/foodingredientspackaging/foodadditives/foodadditivelistings/ucm0... 3/7/2012



INH Inhibitor MISC Miscellaneous NAT Natural substances and extractives NNS Non-nutritive s NUTRNutrient NUTRS Nutritive Sweet PEST Pesticide other than furnigant PRES Chemical prese SANI Sanitizing agent for food processing equipmentsDA Solubilizing and SEQ Sequestrant SOLV Solvent STAB Stabilizer SY/FL Synthetic flavor VET Veterinary drug, which may leave residue in edible tissues of animals	rener rvative I dispersing agent
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Regulatory Status

Туре	Regulatory Status		
BAN	Kind, effect or use of additive Substances banned prior to the Food Additives Amendment (FAA) because of toxicity. These substances are bolded and italicized. Generally recognized as safe. Substances in this category are by definition, under	Type FS	Substances permitted as optional ingredient in a standardized food
GRAS	Sec. 201(5) of the FD&C Act, not food additives. Most GRAS substances have no quantitative restrictions as to use, although their use must conform to good manufacturing practices. Some GRAS substances, such as sodium benzoate, do have a quantitative limit for use in foods.	GRAS/F	SSubstances generally recognized as safe in foods but limited in standardized foods where the standard provides for its use.
ILL	Substances used or proposed for use as direct additives in foods without required clearance under the FAA. Their use is illegal. These substances are bolded and italicized.	PD	Substances for which a petition has been filed but denied because of lack of proof of safety. Substances in this category are
PS REG/FS	Substances for which prior sanction has been granted by FDA for specific uses. There are a number of substances in this category not listed herein because they have not been published in the FEDERAL REGISTER. Food additives regulated under the FAA and included in a specific food standard.	REG	illegal and may not be used in foods. Food additives for which a petition has been filed and a regulation issued.

Miscellaneous Abbreviations

Miscellaneous Abbreviations							
Туре	Kind, effect or use of additive	Туре	Kind, effect or use of additive				
& art CFR COND comp do F.R. GMP	and artificially about, approximately Code of Federal Regulations conditions component Same CFR reference as appears earlier in paragraph Federal Register In accordance with good manufacturing practices; or sufficient for purpose; or quantity not greater than	amt avg calc cnd comb. ctg dr g incl	amount average calculated canned w/ in combination with; combined with coating for fruits, vegetables, tablets dried gram(s) including				
mfr min nonstdzd pdt pest ppm res suppi tabs veg w/o X-ref = =	required manufacture mineral nonstandardized product pesticide parts per million residue supplement tablets vegetable(s) without cross reference less than or equal to greater than or equal to	mg ml Part pdtn pkg prepns sp sw temp w/ wt c > +	milligram(s) milliliter Refers to Part number under Title 21 CFR production packaging preparations special dietary sweetened temporary with weight less than greater than plus				

ADDITIVES

- Α
- Acacia (gum arabic)- EMUL/STAB, REG, Used as thickener, emulsifier, or stabilizer at =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
- 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-AcetyI-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 chlorite 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), curcurbit and leafy vegetables, red meat, red meat parts, organs, processed, comminuted or formed meat food products, and seafood. See

http://www.fda.gov/food/foodingredientspackaging/foodadditives/foodadditivelistings/ucm0... 3/7/2012

Food Additive Listings > Additive Status List



- Aconitic acid (equisetic acid, citridic acid, achilleic acid) -SY/FL, GRAS/FS 184.1007
- Acrolein MISC, REG, In modifying food starch 172.892
- Acrylamide -acrylic acid resin 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 hydrolyzate; Fixing agent for the immobilization of glucose isomerase for 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 -573.120
- 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-nitrobenzamide) 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
 Alemine E (402) 050 40
- 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 173.315, May be used at a level not to exceed 0.2 percent in lye-peeling solution to assist in the lye peeling of fruit and vegetables.
- Alfalfa, Extract GRAS 182.20
- Alfalfa herb and seed SP/ESO, GRAS 182.10
- Algae, brown (kelp), or red NAT, GRAS, REG -184.1120, 184.1121 and 172.365
- Alginic Acid and Salts:
 - o Ammonium alginate MISC, REG, Boiler Water Additive -173.310
 - Calcium alginate GRAS 184.1187
 - Potassium alginate GRAS 184.1610
 - o Sodium alginate GRAS, REG 184.1724, Boiler Water Additive 173.310
 - o Alginic acid GRAS, 184.1011
- Algín 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 -In delinting of cottonseeds - 173.322
- n-Alkyl(C12-C18)benzyldimethylammonium 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)dimethylethylbenzylammonium chloride SANI, REG, 200 ppm Of active quaternary compound in the sanitizing solution 178.1010
- alpha-Alkyi-omega-hydroxypoly(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 182.10 and 182.20
- Allspice oil and oleoresin ESO, GRAS 182.20
- Almond, bitter 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 -172.892
- · 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 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

Food Additive Listings > F Additive Status List



- Aminoglycoside 3'-phosphotransferase II 173.170
- Aminopeptidase from Lactococcus lactis MISC, GRAS To make cheddar cheese and protein hydrolysates -184, 1985
- 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-pyrimldinylmethyl)-2-picolinium chloride hydrochloride) alone or comb/w other drugs and antibiotics - FEED/VET, REG, 1 ppm - In uncooked liver and kidneys of chickens, turkeys, and pheasants as a residue - 556.50; 0.5 ppm - In uncooked muscle meat of chickens, turkeys, calves, pheasants as a residue - 556.50; 8 ppm - In egg yolks as a residue - 556.50; 4 ppm - In whole eggs as a residue -556.50; 2 ppm - In uncooked fat of edible tissues of calves - 556.60; Use in drinking water - 520.100; REG - Coccidiostats for feed uses, See 558.55, 558.58, 558.60, 558.62, 558.76, 558.78, 558.128, 558.248, 558.274, 558.460, 558.530
- Amylase from Aspercillgus Oryzae ENZ, REG -137.105, 137.155, 137.160, 137.165, 137.170, 137.175, 137.180, 137.185, 137.200, 137.205
- Amyloglucosidase Enzyme Product ENZ, REG, <0.1% by Wt. of gelatinized starch 173.110 Degrading gelatinized starch into constituent sugars, in the production of distilled spirits & vinegar
- Amyris FL/ADJ, REG, GMP, Used in conjunction w/flavors 172.510
- Angelica (root, stem, seed) SP/ESO, GRAS 182.10 and 182.20
- Angola weed FL/ADJ, REG, GMP, In alcoholic bev only -172.510
- Angostura (cusparia bark) ESO/SP, GRAS 182.10 and 182.20
- Anhydrous ammonia FEED, REG, > 16% but < 17% ammonia in feed premix Source of crude fiber & non-pro-tein nitrogen 573.180
- Animal protein hydrolysate, cond FEED, REG, Source of animal protein 573.200
- Anise, Star Anise SP/ESO, 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, Erythromycin thiocyanate, Lincomycin, Monensin, Oleandomycin, 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
- 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
- Arsenic FEED, REG, 2 ppm As residue in liver & kidney of swine 556.60; 2 ppm As residue in edible bypdts 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, initiation fruit flavored drinks and ades, frozen stick-type confections and novelties, breath mints, hard and soft candy, refrigerated ready-to-serve gelatins, puddings, and fillings, fruit wine beverages with EtOH <7%, yogurt-type products where aspratame is added after pasteurization and culturing, refrigerated flavored milk beverages, frozen desserts, frostings, toppings, fillings, glazes and icings for precooled baked goods, frozen, ready-to-thaw-and-eat cheesecakes, fruit and fruit toppings, frozen dairy and nondairy 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
- Azaperone VET, REG, Use: Swine (Injection) 522.150
- Azodicarbonamide BL, REG/FS, 45 ppm in flour Part 137, Cereal Flours & 172.806
- в
- 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, 558.274, 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 Bakers Yeast Glycan EMUL/STAB, REG, <10,000 organisms/gm by APC 169.150, Salad Dressings; 172.898 as emulsifier; <10 yeast & molds/gm - Thickener, stabilizer or texturizer; < 5% - In salad dressings, 172.898; GMP, In frozen dessert analogs, sour cream analogs, cheese spread analogs, and in cheese-flavored and sour cream-fla-vored snack dips - 172.898
- 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 182.10 and 182.20
- Balsam of Peru ESO, GRAS 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
- Beeswax (bleached, white wax) MISC, GRAS
- Beeswax (yellow wax) MISC, GRAS 184.1973
- Beeswax, white (cire d'abeille) FL/ADJ, REG, GMP, In conjunction with flavors 172.510
- Bentonite FEED, GRAS, GMP 21CFR 582.1155
- Benzathine 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%
- Benzoin Resin FL/ADJ, REG, GMP, In conjunction with flavors 172.510, 73.1
- Benzophenone
- 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 oleo-margarine not to exceed 0.02% by wt of such animal fat content, Part 166 - margarine; AOX, REG, 10 ppm alone or w/BHA - In potato granules - 172.115; 50 ppm alone or w/BHA - In dry breakfast cereals, sweet potato flakes, dehydr potato flakes or shreds - 172.115; 200 ppm alone or w/BHA - in emul stab for shortenings - 172.115; REG, 0.1% alone or w/BHA 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
- Bile salts & Ox Bile Extract SDA, GRAS 184.4560
- Bioflavonoids, citrus DS, ILL, Any claim for special dietary use renders the food misbranded (VitaSafe case)
- Biotin NUTR/DS, GRAS, GMP 182.5159; 182.8159
- Bitter almond ESO, GRAS, Free of prussic acid 182.20
- Biuret, 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, polyoxpropylene glycol, polyoxyethylene glycol, potassium carbonate, sodium acetate, sodium alginate, sodium aluminates, sodium carbonate, sodium hexametaphosphate, sodium hydroxide, sodium lignosulfonate, sodium nitrate, sodium phosphate (mono-, di-, tri-), sodium polyacrylate, sodium polymethacrylate, sodium silicate, sodium sulfate, sodium sulfite (neutral or alkaline), sodium tripolyphosphate, 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
- o Acrylamide-sodium acrylate resin BC, REG, 0.05% of acrylamide monomer In steam contacting food
- o Cyclohexylamine or Morpholine BC, REG, <10 ppm In steam contacting food except milk and milk products
- o Octadecylamine BC, REG, <3 ppm In steam contacting food except milk and milk products
- o Diethylaminoethenol BC, REG, 15 ppm In steam contacting food except milk and milk products
- o Trisodium nitrilotriacetate BC, REG, <5 ppm in feed water In steam contacting food except milk and milk products
- o Polymaleic acid and/or its sodium salt BC, REG, Total < 1 ppm in feed water In steam contacting food

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- Sorbitol anhydride esters (a mixture of sorbitan monostearate, polyoxyethylene (20) sorbitan mono stearate (polysorbate 60) and polyoxyethylene (20) sorbitan monolaurate (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
- Brominated vegetable oil STAB, INTERM/REG, <15 ppm In fruit flavored beverages where not precluded by a standard 180.30
- Bryonia root FLA/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, 558.530 & 558.105
- Butadiene styrene rubber MISC, REG, In chewing gum base 172.615
- Butane, n-butane, isobutane 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 sugar) 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
- 1,3-Butylene glycoi SOLV, REG, GMP, In nat & syn flavoring substances except where standards preclude use 173.220, 573.225. Used in the manufacture of sausage casings as a formulation aid and processing aid 172.712.
- Tert-Butylhydroquinone AOX, REG, See TBHQ.
- 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
- С
- 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
- Cajeput 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 diacetate SEQ, GRAS, See calcium acetate
- Calcium dioxide (Ca peroxide) MISC, FS, Part 136
- Calcium disodium ethylenediamine-tetraacetate [(calcium ethylenedinitrilo) tetraacetate]; calcium disodium EDTA AF, REG, 25 ppm Fermented malt beverages 172.120; Antigushing 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; 230 ppm Spice extractives in conductive formation, promote color retention; 200 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 alone or comb with disodium EDTA French dressing, mayonnaise, and salad dressing; non-standardized dressings and sauces, preservative; 100 ppm alone or comb /w disodium EDTA Sandwich spread, preservative; 200 ppm by wt of egg yolk portion Egg product that is hard-cooked & consists, in a cylindrical shape, of egg white w/an inner core of egg yolk, preservative; 25 ppm In distilled alcoholic beverages 172.120, promote stability of color, flavor and or product clarity; PRES, REG/MIA, 75 ppm Oleomargarine Part 166; 365 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/B&N, GRAS/FS, Part 155, Canned Peas; Part 135, Frozen Desserts; Part 582, Animal feeds 184.1205
- Calcium hypochiorite SANI, REG, <200 ppm avail Cl Adequate drainage 178.1010; MISC, REG, < 0.036% Cl of dry starch In modifying food starch for use in batter for commercially processed foods - 172.892
- Calcium iodate MISC, FS, <0.0075 parts for each 100 parts by wt. of flour used Part 136, Bakery Pdts; NUTR. GRAS 184.1206
 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, 184.1210
- Calcium pantothenate -NUTR/DS, GRAS, GMP, 182.5212, 184.1212
- Calcium pantothenate (calcium chloride double salt of) d- or di-form 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
 – 172.330
- Calcium periodate FEED, REG, Nutr 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 -Parts 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 Fruit 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 saits 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 stearoyi-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
- Candeliila 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
- Caramel MISC, GRAS 182.1235
- Caraway SP/ESO, GRAS 182.10 and 182.20
- Caraway, black (black cumin) SP, GRAS 182.10
- Carbadox FEED, REG, ZERO Residues in uncooked edible tissue of swine using procedures in 556.100; FEED, REG, Feed Use: 558.115
 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
- Carbohydrase enzyme derived from Aspergillus niger ENZ, REG. GMP, For removal of visceral mass in clam processing or shell from shrimp - 173.120

http://www.fda.gov/food/foodingredientspackaging/foodadditives/foodadditivelistings/ucm0... 3/7/2012

- Carbohydrase enzyme derived from Rhizopus Oryzae ENZ, REG. Used in the production of dextrose 173.130
- Carbomycin FEED, REG, ZERO Residues in edible tissues of chickens 556.110; Use in comb/w oxytetracycline HCl 520.1660a (Drinking Water)
- Carbon dioxide MISC, GRAS 184.1240
- Carbon monoxide MISC, REG, 4.5% by volume In gas combustion product 173.350
- Carboxymethylcellulose STAB, FS, Part 133, Cheeses; Part 135, Frozen Desserts; Part 169, Dressings for Foods & Flavorings; GRAS
- Cardamom (cardamon) SP, GRAS 182.10
- Cardamom Oleoresin ESO, GRAS, 182.20
- Cardamom seed (cardamon) ESO, GRAS 182.20
- Carnauba wax MISC, GRAS 184.1978
- Carob bean ESO, GRAS 182.20
- 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 Jelly & 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 Prdts
- 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 172.510

Ceftiofur - 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 clam 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 173.357
- Centaury (centrurium) herb FL/ADJ, REG, GMP, In alcoholic beverages only 172.510
- Cephapirin, 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
- Cephapirin 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, Chicle, chiquibul, crown gum, gutta hang kang, jelutong, massaranduba balata, massaranduba chocolate, nispero, lechi caspi, pendare, perillo, rosidinha, Venezuelan chicle, Leche de vaca, Niger gutta, tunu, chilte, natural rubber, glycerol ester of tall oil resin, etc. - 172.615
- Chicle MISC, REG, Comp of chewing gum base 172.615

- Chicory ESO, GRAS 182.20
- Chilte MISC, REG, Chewing gum base 172.615
- Chilquibul 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
- 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 concentration 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 di-vinylbenzene 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
- 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 522.1193
- 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; 4 ppm Residues in uncooked liver & kidneys of calves 556.150; 1 ppm Residues in uncooked fat of calves 556.150; 0.1 ppm In uncooked kidney, liver, and muscle of beef cattle & non-lactating dairy cows as residue; ZERO Residues in uncooked fat 556.150; 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 kidney of sheep 556.150; 558.58, 558.105, 558.128, 558.175, 558.274, 558.368, 558.430, 558.530, 558.680
- Chlortetracycline FEED, REG, Sulfa: 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 kidney 556.150; 2 ppm Residue in uncooked edible tissue of swine muscle do;0.2 ppm Residue in uncooked edible tissue of swine muscle do;0.2 ppm Residue in uncooked edible tissue of swine muscle do;0.2 ppm Residue in uncooked
- Chlortetracycline FEED, REG, Sulfa: 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 556.510
 +Sulfamethazine 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 muscle of swine, 556.150; 0.2 ppm Residue in uncooked fat of swine 556.150; Uses & other information, 558.145
- 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 -0/SP, GRAS, 182.10 and 182.20
- Cinnamyl anthranilate SYL/FL, BAN, ZERO 189.113
- Cinnamyl formate
- Cire d'abielle 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-pyridinol) FEED, REG, 0.02 ppm Residues in milk 556.160; 0.2 ppm Residues in cereal grains, vegs, 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
- 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) MISC, ILL, Illegal for use, 172.260 revoked chloride, sulfate) 8/12/66
- Coca (decocainized) ESO, GRAS 182.20
- Cocca butter substitute from paim oil GRAS, GMP In the following food categories: confections and frostings; coatings of soft candy; sweet sauces and toppings -184.1259



- Cocca butter substitute from coconut oil, palm kernel oil or both ESO, REG, Coating material for vitamins, citric acid, succinin acid and spices. In lieu of cocoa butter in sweets - 172.861
- Cocoa with dioctyl 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
- Copaiba 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; processing 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 scald baths for poultry defeathering - 172.808
- Copper (carbonate, chloride, gluconate, hydroxide, orthophosphate, oxide, pyrophosphate, sulfate) NUTR, GRAS, As nutritional dietary supplement in animal feed -582.80
- 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 NUTRS, GRAS, GMP 184.1277
- Corn gluten GRAS, GMP 184.1321
- Corn silk ESO, GRAS 182.20
- Corn sugar NUTRS, GRAS, GMP 184.1857
- Corn syrup NUTRS, GRAS, GMP 184.1865
- Corn Syrup, High Fructose NUTRS, 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
 Commentee (2.0.2) is the LC (2.0).
- Coumaphos (0,0-Diethyl 0-(3-chloro-4-methyl-2-oxo-2H-1-benzopyran-7-yl) phosphorothioate) Uses in cattle & chicken feeds -558.185
 Coumaphos (0,0-Diethyl 0-(3-chloro-4-methyl-2-oxo-2H-1-benzopyran-7-yl) phosphorothioate) - Uses in cattle & chicken feeds
- Coumarin SY/FS, BAN, Any food containing coumarin added as such or as a constituent of tonka beans or tonka extract is adulterated,
- Coumarone-indene resin CTG, REG, < 200 ppm fresh wt basis on fruit As protective coating for fruit 172.215
- Crambe meal, heat toasted 573.310
- 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
- Curdian MISC, EMUL, STAB, REG/FS, GMP 172.809
- Currant black, buds & leaves FL/ADJ, REG, GMP, In conjunction w/flavors 172.510
- Cusparia bark ESO, GRAS 182.20
- 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
- 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-cys-teine per 100 parts of flour in dough as a dough strengthener
- Cystine (I form) NUTR/DS, REG 172.320

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- Damar Gum (Shorea dipterocarpaceae) Diluents in color additives 73.1
- Damiana leaves FL/ADJ, REG, GMP, In conjunction w/flavors 172.510
- Dandelion, dandelion root ESO, GRAS,
- Dandelion, fluid extract (Taraxacum spp.) GRAS -182.20
- DDVP FEED, REG, See Dichlorvos
- Decalactone alone or comb/w dodecalactone FLAV, REG, <10 ppm alone or <20 ppm comb As artificial flavoring in oleomargarine.

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Part 166 - 172.515

- Decanoic Acid SANI, REG, 109 218 ppm total fatty acids Component of sanitizing solution 178.1010, Coating for fruits and vegetables 172.210, Fatty acids -172.860, Defoaming agents 173.340
- 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; 1 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, Polyoxyethylene (600) dioleate, Polyoxyethylene (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-Butoxypolyoxyethylene (AF, REG, For use in processing beet sugar only 173.340); polyoxypropylene glycol formaldehyde, sodium polyarylate, 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
- Dehydroacetic acid or its Na salt PRES, REG, 65 ppm as the acid In cut or peeled squash 172.130
- Dextrans (avg mol wt <100,000) MISC, GRAS
- Diacetyi SY/FL, GRAS, GMP 184.1278
- Dextrin GRAS 184,1277
- Dexztrose 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)dimethylammonium chloride 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
 Diamedium about the Store and the store an
- 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-nitrilopropionamide 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
- 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
- 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
- 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
- Diethylenetriamine Ion-exchange membranes 173.20
- Diethylenetriamine crosslinked with epichlorohydrin -Ion-exchange resins 173.25
- Diethylamino-cellulose 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
- Diethylstilbestrol (DES) FEED, BAN, Not legal for animal use (drug or feed)
- Diethyl pyrocarbonate (DEPC) INH, ILL, Not legal in food
- Diethyl tartrate
- Dihydrosafrole SY/FL, PD/ILL, Not legal in food
- 3,5-Diiodosalicylic acid DS, GRAS, Animal feed 582.80
- Dilauryl thiodipropionate AOX, GRAS, 0.02% of fat or oil incl essential oil content of food 182.3280
- Dill SP/ESO, GRAS 184.1282
- Dill, Indian FL/ADJ, REG, GMP, In conjunction w/flavors only 172.510
- Dimethylamine-Epichlorhydrin Copolymer REG, 150 ppm Decolorizing agent in clarification of sugar liquors and juices 173.60
- Dimethylamine-epichlorohydrin resin MISC, GMP, Fixing agent for the immobilization of glucose isomerase for use in manufacturing high fructose corn syrup 173.357
- Dimethyldialkyl(C14-C18)ammonium chloride 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
- Dimethyl dicarbonate MISC, REG, Microbial control agent in the following beverages under normal circumstances of bottling, canning, or other forms of final packaging, where the viable microbial load has been reduced to 500 microorganisms per milliliter or less by current good manufacturing practices such as heat treatment, filtration, or other technologies prior to the use of dimethyl dicarbonate; 1) In wine, dealcoholized wine, and low alcohol wine in an amount not to exceed 200 parts per million. (2) In ready-to-drink teas in an amount not to exceed 250 parts per million. (3) In carbonated or noncarbonated, nonjuice-containing (less than or equal to 1 percent juice), flavored or unflavored beverages containing added electrolytes (5-20 milliequivalents/liter sodium ion (Na+) and 3-7 milliequivalents/liter potassium ion (K+)) in an amount not to exceed 250 parts per million. (4) In carbonated, dilute beverages containing juice, fruit flavor, or both, with



juice content not to exceed 50 percent, in an amount not to exceed 250 parts per million - 172.133

- Dimethylethanolamine Component of Ion-exchange membranes 173.20
- Dimethylpolysiloxane AF, REG, ZERO 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)dimethyl-ammonium chloride -SANI, REG, 150 ppm Of active quaternary compound in the sanitizing solution 178.1010
- Di-n-alkyIC8-C10)dimethylammonium chloride, n-alkyI(C12-C18)benzyIdimethylammonium chloride, ethyl alcohol and alpha-(p-nonyIphenyi)-omega-hydroxypoly(oxyethylene) - SANI, REG, 150 - 400 ppm -For use as components of sanitizing solution 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
- 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 DSS 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 in final molasses Diluents in color additives, 73.1 Copolymer condensates of ethylene oxide and propylene oxide, 172.808
- Dipotassium phosphate SEQ, GRAS/FS, Part 133.169, Past Process Cheese 182.6285
- Disodium cyanodithioimidocarbonate MISC, REG, 2.5 ppm in raw cane For control of micro-organisms in cane sugar mills 173.320;
 2.9 ppm in raw cane or sugar beets with potassium N-methyldithiocarbamate for control of microorganisms in cane sugar and beet sugar mills 173.320
- Disodium EDTA (Disodium ethylenediaminetetraacetate) 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 cnd 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 pdts; 145 ppm Promote color retention in canned black-eyed peas, 155.200; 500 ppm Promote color retention in canned strawberry pie 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 asusage; 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 cyanodíthioimidocarbonate For control of micro-organisms in cane sugar and beet sugar mills -173.320
- Disodium ethylenebisdithiocarbamate 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 Vegs 172.530
- Disodium inosinate FL/ADJ, REG, GMP, Part 155, Cnd Vegs 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
- Dodecylbenzenesulfonic acid SANI, REG, <400 ppm in soln Adequate drainage; May be used on glass containers for holding milk -178.1010
- alpha-(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
- Duise NAT, GRAS

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- 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
- Efrotomycin -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 & vegs 173.315
- Enzyme-modified soy protein MISC, FD, GMP, Foaming agent in soda water
- Enzymes, carbohydrase & 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 from plant and animal sources ENZ, GRAS, GMP GRAS affirmation of the following: bromolein -184.1024, catalase -184.1034, ficin - 184.1316, animal lipase - 184.1415, malt - 184.1443a, pancreatin 184.1583, pepsin - 184.1595, trypsin - 184.1914
- Enzymes (for milk clotting) from Endothis parasitica, Bacillus cereus, Mucor pusillus, Mucor miehei Cooney et Emerson, or Aspergillus 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, 133.196 -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

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- 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
- 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 558.55, 558.58, 558.62, 558.76, 558.78, 558.248, 558.460, 558.530
- Ethoxylated mono- and diglycerides 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 0.5% by wt. of finished icing In icing & icing 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 fat of meat from animals except poultry 172.140; AOX, REG, 100 ppm For preserving of color in prod of chili powder, ground chili, and paprika 172.140; 3.0 ppm (0.0003%) In or on uncooked liver & fat of poultry; 0.5 ppm (0.00005%) In or on uncooked muscle meat of animals; 0.5 ppm (0.00005%) In poultry eggs; Zero In milk 172.140; 150 ppm In animal feed, fish food, and canned pet food 573.380, 573.400
- 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 prepns or component of protective ctg for vit & min tabs, or as fixative in flavor compounds 172.868; 573.420; In anima diamine dihydroiodide DS, GRAS, Animal feed
- 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; 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 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 REG, SDA See specs section 172.808; MISC, Defoaming agent 173.340 for use as prescribed in 172.808
- Ethylene oxide/propylene 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/propylene 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'-dichiorobenzilate INSECT, REG, 5.0 ppm As residue in/on citrus fruits 180.109; 0.5 ppm As residue in fat, meat, 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-diisobutoxy-3-quinolinecarboxylate FEED, REG, X-ref Buquinolate
- Ethyl vanillin SY/FL, GRA5/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 172.510
- Eucheuma cottonii extract MISC, EMUL, STAB, REG, GMP, FS, See carrageenan 172.620
- Eucheuma spinosum extract MISC, EMUL, STAB, REG, GMP, FS 172-620
- 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 - 573.1000; <1.5% -Anticaking, blending agent, etc. in dog feed -573.1000

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- Famphur (0,0-dimethyl 0-[p-(dimethylsulfamoyl)phenyl] phosphorothioate) PEST/VET, REG, Use: In animal feed 558.254; As pour on liquid 524.900; As paste in combination with Levamisole 520.1242g
- Fatty acids one or any mixture of straight chain monobasic carboxylic acids & assoc. 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, myistyl, cetyl, and stearyl alcohols MISC, REG, As substitutes for the corresponding naturally derived fatty alcohols permitted in foods by existing regulations 172.864
- 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
 Fendel commune CD 2010 1010 1010
- Fennel, common SP, GRAS 182.10
- Fennel, sweet (Finochio, Florence) SP/ESO, GRAS -182.10, 182.20
- 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

- Fenthion PEST/VET, REG, As pour on liquid-524.920
- Fenugreek SP/ESO, GRAS 182.10, 182.20
- Fermentation derived milk-clotting enzyme ENŽ, REG, In production of cheese for which permitted by standards of identity Part 133; 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 section 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
- 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.
- Folic acid (folacin) NUTR, REG, 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-replacement 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 "amylolytic 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 nonalcoholic 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
- 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
- Furazolidone VET, REG, ZERO NOT PERMITTED FOR USE IN ANIMAL FEEDS USE WITHDRAWN 8/23/91
- Furcelleran MISC, EMUL, STAB, REG/FS, GMP, 133.128; 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

- alpha-Galactosidase from Mortierella vinaceae var. raffinoseutilizer 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
- Galanga (galangal root) SP/ESO, GMP, GRAS 182.10,
- Galanga, greater FL/ADJ, REG, GMP, In alcoholic beverages only 172.510
- Galbanum FL/AD3, REG, GMP, In conjunction w/flavors only 172.510
- Gambir (catechu, pale) FL/ADJ, REG, GMP, In conjunction w/flavors only 172.510
- Garlic SP/ESO, GRAS, GMP, 182.10, 182.20, 182.1317
- Gas, combustion product MISC, REG, X-ref Combustion product gas 173.350
- Gellan Gum MISC, REG, As a stabilizer & thickener; (See specs in 172.665)
- Genet Flowers 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

http://www.fda.gov/food/foodingredientspackaging/foodadditives/foodadditivelistings/ucm0... 3/7/2012

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- 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
- Geranyl isobutyrate
- 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 -573.500; <10% of feed - Protein supplement in cattle feed
 Glutamica _ NUTR__REG_ (Conservation of 20.000)
- Glutamine NUTR, REG, (See specs in 172.320)
- Glutaraidehyde MISC, GMP, Fixing agent for the immobilization of gloucose 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.
- Glycerin MISC, GRAS/FS, GMP, Part 169, Food Flavorings, 182.1320; Part 582 Animal feeds
- Glycerin, synthetic MISC, REG, GMP, In food. (See 172.866 for specs)
- Glycerol See glycerin
- 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, =100ppm in beverages-172.735; GMP, Softener for chewing gum base-172.615
- Glycerol (glyceryl) tributyrate (tributyrin, butyrin) -SY/FL, GRAS, GMP as flavoring agent and adjuvant 184.1903
- Glyceryl behenate MISC, GRAS, GMP, As formulation aid in tablets 184.1328
- Glyceryl-lacto esters of fatty acids EMUL, MISC, REG, GMP 172.852
- Glyceryl monocleate MISC, GRAS, SY/FL, GMP, As flavoring agent and adjuvant 184.1323
- Glyceryl (glycerol) monostearate (monostearin) MISC, GRAS/FS, GMP, 184.1324; <2% of product Macaroni products 139.110; <3% of product Noodle products 139.150
- Glyceryl palmitostearate GRAS, GMP, Use as a formulation aid in excipients for tabs 184.1329
- Glyceryl triacetate (triacetin) MISC, SY/FL, GRAS, GMP. As flavoging agent and adjuvant 184.1901
- Glyceryl tristearate 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 monoand 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
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- Halofuginone hydrobromide FEED, REG, Use: In broiler chicken feed 558.625; 0.1 ppm As residue in uncooked edible tissues of chickens - 556.308; 0.3 ppm -As residue in uncooked liver of chicken - do; 0.2 ppm - As residue in uncooked skin (w/fat) of chicken - do
- Haloxon VET, REG, 0.1 ppm Residues in edible tissues of cattle, sheep, & goats: 556.310; Use 520.1120
- e Haw, black bark FL/ADJ, REG, GMP, In conjunction w/flavors only 172.510
- Helium MISC, GRAS 184.1355
- Hemicellulose extract FEED, REG, GMP, As a source of metabolizable energy in animal feed 573.520
- Hemiock needles & twigs FL/ADJ, REG, GMP, In conjunction w/flavors only 172.510
- Heptylparaben (n-heptyl p-hydroxybenzoate) INH, REG, 12 ppm In -fermented malt beverages to inhibit microbiological spoilage, 172.145; 20 ppm - In non-carbonated soft drinks and fruit based beverages when allowed by established standards of identity - 172.145; PRES, REG, <12 ppm - In fermented malt beverages - 193.285
- Hexachlorophene VET, REG, Permission in animal products restricted 500.46
- Hexane SOLV, REG, 25 ppm as residue In spice oleoresins (173.270); 2.2% by weight As residue in hops extract, extract added before or during cooking of beer -173.270; MISC, REG, 25 ppm - In modified hop extract for beer - 172.560; MISC, REG, 5 ppm as residue in fish protein isolate - 172.340
- Hexitol oleate EMUL, ILL No petition filed. Was used as an ice cream emulsifier.
- Hexyl alcohol, synthetic MISC, REG, GMP, See Fatty alcohols, synthetic 172.864
- Hickory bark ESO, GRAS, GMP 182.20
- Histidine (I form only) NUTR/DS, REG, Food Additive Reg 172.320
- Hop extract, modified FLAV, REG, GMP, In beer 172.560
- Hops ESO, GRAS, GMP 182.20
- Horehound (hoarhound) SP/ESO, GRAS, GMP -182.10, 182.20
- Horsemint ESO, GRAS, GMP 182.20
- Horseradish SP, GRAS, GMP 182.10
- Hyacinth Flowers FL/ADJ, REG, GMP, In alcoholic bevs only 172.510
- Hydrazine BC, REG, ZERO For steam contacting food -173.310
- Hydriodic acid SANI, REG, <25 ppm I2 in soln Adequate drainage 178.1010
- Hydrobiotite, exfoliated FEED, REG, See Verxite -573.1000

 Hydrochloric acid - MISC, REG, GMP, Modifier for food starch - 172.892; B&N, GRAS/FS - 182.1057; Acidifier in skim milk - 131.1444 and cottage cheese making -133.129 and Cnd Tom Prods Processing - 155 and dried eggs - 160.105 and dried egg yolks - 160.185 and modified hop extract - 172.560; In animal feed practices - 582.1057

- Hydrocortisone (as acetate or sodium succinate) VET, REG, 10 ppb neg res In milk as residue 556.320; VET, REG, In mastitis formulation - 556.820
- Hydrogen peroxide MISC, REG, Used in combination with acetic acid to form peroxyacetic acid 59 ppm in wash water for fruits and vegetables that are not raw agricultural commodities- 173,315.
- Hydrogenated corn syrup REG, GMP, In dog/cat foods as humectant 573.530
- Hydrogenated menhaden oil GRAS, GMP 184.1472
- Hydrolyzed leather meal FEED, REG, 1% by wt of feed In swine feed 573.540
- Hydrolyzed vegetable protein FLAV, FS, GMP, 161.190, Cnd Tuna; Part 155, Vegetables
- 1-Hydroxyethylidene-1,1-diphosphonic acid MISC, REG, GMP, Used with peroxyacetic acid for washing fruits and vegetables that are not raw agricultural commodities at levels < 4.8 ppm in wash water - 173.315
- alpha-Hydro-omega-hydroxypoly(oxyethylene)poly(oxypropylene) (minimum 15 moles) poly(oxyethylene) block copolymers
 AF, REG, <0.05% by wt As surfactant & defoaming agent in scald baths > 125 °F for poultry defeathering, then potable water rinse 172.808; < 5 gm per hog As foam control and rinse adjuvant in hog dehairing machines 172.808
- alpha-Hydro-omega-hydroxypoly(oxyethylene)poly(oxypropylene)(53-59moles) poly(oxyethylene)(14-16 moles) block copolymer, (mol wt 3500-4125) - SDA, REG, 10 ppm total in finished beverage or fruit juice drink In combination with dioctyl sodium sulfosuccinate -172.810, 172.808
- alpha-Hydro-omega-hydroxy-poly(oxyethylene)poly(oxypropylene) (55-61 moles) poly(oxyethylene) block copolymers, (mol wt. 9,760-13,200) - SDA/STAB, REG, GMP, Solubilizer and stabilizer in flavor concentrates -172.808
- alpha-Hydro-omega-hydroxypoly(oxyethylene)poly(oxypropylene)(51-57moles) poly(oxyethylene) block copolymer (Mol. wt. 14,000) MISC, REG, <0.5% wt. of flour used Dough conditioner 172.808
- 1-Hydroxyethylidene-1,1-diphosphonic acid REG, May only be used with peroxyacetic acid, < 4.8 ppm in wash water for fruits & vegs that are not raw agricultural commodities- 173.315.
- Hydroxylated lecithin EMUL, FS, Part 136, Bakery Products; REG, GMP, In foods except standardized foods not providing for such use -172.814; AF, REG, GMP, Defoaming agent for processing beet sugar and yeast -173.340
- 4-Hydroxymethyl-2,6-di-tert-butylphenol REG antioxidant alone or in combination with other antioxidants so total antioxidants do not exceed .02 per cent of oil or fat content of the food - 172.150
- Hydroxypropyl cellulose MISC, REG, GMP, EMUL, STAB 172.870
- Hydroxypropyl methylcellulose EMUL, REG/FS, GMP 172.874;Part 169, Dressings; Part 135, Fr Desserts
- 8-hydroxyquinoline sulfate MISC, BAN, Was used as comp. of a cottage cheese coagula
- Hygromycin B FEED, REG, ZERO In eggs of poultry and in uncooked edible tissues & by-products of swine and poultry as residue 556.330, 558.55, 558.58, 558.76, 558.78, 558.128, 558.274, 558.460, 558.625, 558.630, 558.680
- Hyssop SP/ESO, GRAS 182.10, 182.20; Use in chicken & swine feeds

- Iceland moss FL/ADJ, REG, GMP, In alcoholic beverages only 172.510
- Immortelle ESO, GRAS, GMP 182.20

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- Imperatoria FL/ADJ, REG, GMP, In alcoholic bevs only -172.510
- Inositol NUTR/DS, GRAS, GMP, 182.5370, 184.1370
- Insoluble Glucose Isamase enzyme preparations ENZ, GRAS, GMP, 184.1372
- Intrinsic Factor complex (Liver-stomach concentration) DS,ILL, See section 250.201 X-ref; Liver-stomach concentrate
 Invert sugar NUTR, GRAS/FS, GMP 184.1859; Part 145 Canned fruit; Part 146 Canned fruit juices; Part 169 Food dressings and flavorings
- Iodine SANI, REG, <25 ppm I2 in soln Adequate drainage 178.1010
- Iodine (from potassium iodide) DS, REG 172.375, <0.225 mg I2 per day w/o reference to age or physical state; <0.045 mg I2 per day infants; <0.105 mg I2 per day children <4 years old; <0.225 mg I2 per day adults and children > 4 years; <0.3 mg I2 per day Pregnant or lactating women
- Iodine (calcium iodate, calcium iodobehenate, cuprous iodide, 3,5-diiodosalicylic acid, ethylenediamine dihydroiodide, potassium iodate, potassium iodide, sodium iodate, sodium iodide, thymol iodide) - NUTR, GRAS, As nutritional dietary supplement in animal feed - 582.80
- Iodinated casein FEED, REG, 100 200 gms/ton In duck feed 558.295; 1/2 to 1 1/2 lb/100 lb body weight In dairy cow feed 558.295
- Ion exchange membranes MISC, REG, In production of grapefruit juice 173.20
- Ion exchange resins MISC, REG, For purification of food and water 173.25
- Ipronidazole FEED, REG,ZERO NOT LEGAL FOR ANIMAL USE; VET, REG, ZERO, do NADA WITHDRAWN 1-17-89
- Irish Moss and extract of X-ref Carrageenan
- Iron (ascorbate, carbonate, chloride, citrate, fumarate, gluconate, lactate, oxide, phosphate, pyrophosphate, sodium pyrophosphate, sulfate, reduced iron) - NUTR, DS, GRAS, As nutritional dietary supplement in animal feed - 582.80;X-Ref Ferric and Ferrous listings
- Iron ammonium citrate AC, REG, <25 ppm In salt for human or animal consumption 172.430, 573.560
- Iron-choline citrate complex FEED, REG, GMP, As source of iron 573.580; NUTR/DS, REG, In foods for sp diet use 172.370
- Iron (harmless salts of) NUTR, FS, Part 137, Flour; Part 139, Macaroni & Noodles; Part 136, Bakery Pdts
- Iron, elemental NUTR/DS, GRAS, GMP 184.1375
- Iron, reduced DS, GRAS, GMP 182.5375
- Iron salts X-ref; Ferric and Ferrous listings
- Irradiated enzymes MISC, REG, Dose not to exceed 10 kilograys Control of microorganisms 179.26
- Irradiated food MISC, REG, Dose not to exceed 1 kilo-gray -To control arthropod pests in any food or to inhibit maturation of fresh foods 179.26
- Irradiated meats MISC, REG, Minimum dose 44 kilogram For sterilization of frozen, packaged meats, NASA -179.26
- Irradiated molluscan shellfish MISC, REG, Max dose 5.5 kGy Control of Vibrio bacteria and other microorganisms in or on fresh and frozen molluscan shellfish -179.26
- Irradiated pork MISC, REG, Min. dose 0.3 kilograys. Max dose 1 kilogray Control of Trichinella spiralis 179.26
- Irradiated poultry MISC, REG, Dose not to exceed 3.0 kilograys To control pathogens in fresh or frozen uncooked poultry 179.26
- Irradiated poultry feed FEED, REG, Dose range 2 to 25 kilogray gamma radiation from cobalt-60 to render poultry feed salmonella negative - 579.40
- Irradiated yeast NUTR, FS, Part 137.305 Enr Farina, source of Vit D.
- Irradiated spices, herbs & seasonings SP, REG, Dose not to exceed 30 kilograys Control of microorganisms -179.26
- Irradiation 579.22 and 179; also see "Radiation"
- Isoascorbic acid PRES, GRAS, X-ref Erythorbic acid -182.3041
- Isobutane GRAS, MISC, propellant, aerating agent -184.1165
- Isobutylene-isoprene copolymer MISC, REG, GMP, Comp of chewing gum base 172.615
- Isobutylene resin, polyisobutylene MISC, REG, GMP, Comp of chewing gum base 172.615
- Isoleucine (I form only) NUTR/DS, REG, Food Additive Reg 172.320
- Isoparaffinic petroleum hydrocarbons, synthetic MISC, REG, GMP, 172.882

Isopropanol, isopropyi alcohol - SOLV, REG, <250 ppm as residue in modified hop extract - 172.560; <50 ppm as residue - In mfr of spice oleoresins - 173.240; 6 ppm - In mfr of lemon oil - 173.240; 2% by wt - In hop extract as residue from extraction of hops in mfr of beer - 173.240; AF, REG, GMP, Comp of defoaming agent for processing beet sugar and yeast - 173.340; SANI, REG, GMP, Adequate drainage - May be used on food processing equip and on food-con-tact surfaces - 178.1010(b)(17); SANI, REG, <40 ppm Adequate drainage; May be used on food processing equip and on glass containers for holding milk - 178.1010(b)(7)

- Isopropyl citrate GRAS/FS, <0.02% 182.6386; <0.02% in oleomargarine 166.110
- Iva FL/ADJ, REG, GMP, In alcoholic beverages only -172.510
- Ivermectin VET, REG, 15 ppb As a residue in liver of cattle and reindeer 556.344; 20 ppb As a residue in liver of swine 556.344; Use: As injection for cattle; Combination with clorsulon - 522.1193; Use: Cattle (Paste) - 520.1192; Use: Cattle, swine, reindeer (Injection) - 522.1192
- J
- Jasmine ESO, GRAS 182.20
- Jelutong MISC, REG, GMP, as chewing gum base
- Juniper (berries) ESO, GRAS 182.20

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- Karaya gum STAB, GRAS/FS, See Reg 184.1349; X-ref Gum Karaya
- Keip DS, REG, <0.225 mg 12 per day w/o reference to age or physical state; <0.045 mg 12 per day Infants; <0.105 mg 12 per day <4 years old; <0.225 mg 12 per day Adults and children > 4 years old; <0.30 mg I2 per day Pregnant or lactating women; Source of iodine in foods for special dietary use prepared from Macrocystis pyrifera, Laminaria digitata, Laminaria saccharina, and Laminaria cloustoni 172.365
- Kelp (see algae, brown) NAT, GRAS, GMP 184.1120, 172.365
- Kola nut ESO, GRAS, GMP 182.20
- L
- Labdanum FL/ADJ, REG, GMP, In conjunction w/flavors -172.510
- Lactase Enzyme Preparation from Kluyveromyces lactis ENZ, GRAS, GMP 184.1388
- Lactic acid B&N, GRAS/FS 184.1061, Part 136, Bakery Pdts; Part 133, Cheese; Part 135, Frozen Desserts; Part 150, Fruit Butters, Jellies & Preserves; In animal feed practices - 582.1061
- Lactose NUTRS, FS, Nutritive Sweetener 168.122; Part 133 (133.124, 133.178, 133.179) Cheeses; 169.179 Vanilla powder; 169.182
 Vanilla-vanillin powder
- Lactose, Hydrolyzed NUTRS, FS, Nutritive Sweetner; Part 133 (133.124, 133.178, 133.179) Cheeses
- Lactylated fatty acid esters of glycerol and propylene glycol EMUL, REG, GMP, In food as an emulsifier, plasticizer, or surface active agent - 172.850
- Lactylic esters of fatty acids EMUL, REG, GMP, For use in foods where standards do not preclude use 172.848
- Lactylic stearate MISC, REG/FS, < 0.5 part/100 parts flour Part 136, Bakery Pdts alone or comb/w calcium stearoyl -2-lactylate, sodium stearyl fumarate or succinylated monoglycerides I72.844
- Lanolin MISC, REG, GMP, Comp of chewing gum base -172.615
- Lasolocid sodium FEED, REG, 0.05 ppm Res in edible tissues of chicken 556.347; Use 558.311; 4.8 ppm Res in cattle liver 556.347; Use: Feed Suppl, Finished Feed, Premix, Liquid Feed Suppl 558.311
- Lasalocid sodium FEED, REG, 10.3 ppm Res in skin of chicken 556.347(a); 7.2 ppm Res in chicken liver 556.347(a); 0.7 ppm Res in cattle liver 556.347(a); Use in chicken, cattle & sheep feed products (finished feeds, suppls, premixes, & liquid feed suppls) 558.311
- Latex (butadiene styrene rubber) MISC, REG, GMP, Comp of chewing gum base 172.615
- Laurel berries, leaves ESO, GRAS 182.20
- Laureth 23 See Polyoxyethylene (23) Lauryl Ether
- Lauric acid MISC, REG CTG fresh fruit 172.210, 172.860; AF 173.340
- Lauryl alcohol, synthetic MISC, REG, GMP See Fatty Alcohols, synthetic 172.864
- alpha-Lauryl-omega-hydroxypoly (oxyethylene) (avg. mol wt 400) SANI, REG, GMP, Adequate drainage; May be used on beverage containers including milk containers & equipment - 178.1010
- Lavandin ESO, GRAS 182.20
- Lavender SP/ESO, GRAS 182.10; 182.20
- Lavender, spike ESO, GRAS 182.20
- Leather meal, hydrolyzed FEED, REG, 1% by wt of feed In swine feed 573.540
- Lecithin, hydroxylated lecithin MISC, GRAS/FS -184.1400, Part 163, Cacao Pdts; Part 136, Bakery Pdts; Part 166, Oleomargarine; Part 133, Cheese Pdts; Part 582 Animal feeds; REG, GMP, Comp of defoamer 173.340; EMUL, REG, GMP, In foods where standards do not preclude use - 172.814
- Lemon, lemon peel ESO, GRAS 182.20
- Lemon baim (See Baim) ESO, GRAS 182.20
- Lemon grass ESO, GRAS 182.20
- Lemon-verbena FL/ADJ, REG, GMP, In alcoholic beverages only 172.510
- L-Leucine NUTR/DS, REG, Food Additive Reg -172.320; MISC, REG, 3.5% of tab wt In aspartame tabs as lubricant 558.240
 Levamisole hydrochloride -VET/FEED, REG, 0.1 ppm neg res In edible tissues of cattle, sheep & swine as res -556.350; Use & other
- information: Feeds (cattle & swine)-558.315; Dosage forms 520.1242, 524.900, 558.254; Injection as phosphate 522.1244
 Licorice and derivatives (ammoniated glycyrrhizin, glycyrrhiza) FLAV, GRAS, < 0.05% Baked goods Flavor, Flavor enhancer, a surface active agent; < 0.1% Alcoholic Beverages; < 0.15% Nonalcoholic Beverages; < 1.1% Chewing Gum; < 16.0% Hard Candy; < 0.15% Herbs & Seasoning; < 0.15% Plant Proteins; < 3.1% Soft Candies; < 0.5% Vitamins & Minerals; < 0.1% All other food 184.1408
- Lignin sulfonate, ammonium, calcium, magnesium, sodium includes lignin from Abaca FEED, REG, < 4% of finished pellets -Sole pelleting aid in animal feeds -573.600; As binding agent in flaked grains; < 11% of molasses - As a surfactant in molasses used in feeds
- Lime (citrus) ESO, GRAS 182.20
- Limestone, Ground GRAS, GMP 184.1409
- Linaloe wood FL/ADJ, REG, GMP, In conjunction w/flavors 172.510
- Linear undecylbenzenesulfonic acid MISC, REG, < 3.0 ppm in flume water Used in flume water for washing sugar beets before slicing operation - 173.315
- Lincomycin hydrochloride VET/FEED, REG, 0.15 ppm neg res Res in milk 556.360; 0.1 ppm neg res In edible tissues of chickens & swine 556.360: Uses & Info -558.58; 558.145; 558.105; 558.195; 558.355; 558.680; 558.511; 558.515; 558.530; 558.530; As soluble powder in drinking water 520.1263b/c; In swine & chicken feeds -558.325; As injection 522.1260;
- Linden flowers SP/ESO, GRAS 182.20
- Linden leaves FL/ADJ, REG, GMP, In alcoholic beverages only 172.510
- Linoleic acid NUTR/DS, GRAS, GMP, Prepared from edible fats & oils & free from chick edema factor 182.5065, 184.1065
- Liver-stomach concentrate w/ intrinsic factor complex DS, ILL, Any food containing the intrinsic factor is adulterated PART

http://www.fda.gov/food/foodingredientspackaging/foodadditives/foodadditivelistings/ucm0... 3/7/2012



250.201(f)

- Locust bean ESO, GRAS 182.20
- Locust (carob) bean gum STAB, GRAS/FS, X-ref Carob bean gum 184.1343, Part 133 (133.178, 133.179), Cheeses; Part 135, Frozen Desserts; Art Sw Jellies & Preserves, Part 150; Dressings for Food, Part 169
- Lovage FL/ADJ, REG, GMP, In conjunction w/flavor -172.510
- Lungmoss FL/ADJ, REG, GMP, In conjunction w/flavors -172.510
- Lupulin ESO, GRAS 182.20
- L-Lysine NUTR/DS, REG 172.320

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- Mace SP/ESO, GRAS 182.10
- Madurimicin ammonium aka "CYGRO" FEED, REG, Use: In feed 558.340; 0.24 ppm Safe concentrate in muscle 556.735; 0.72 ppm Safe concentrate in liver do; 0.48 ppm Safe concentrate in skin/fat do; 0.38 ppm Res in fat of chicken do; VET, REG, Use in chicken feeds -558.340; 0.24 ppm As res in uncooked chicken muscle tissue 556.375; 0.72 ppm As res in uncooked chicken liver do; 0.48 ppm As res in uncooked chicken fat do; 0.48 ppm As res in uncooked chicken liver do; 0.48 ppm As res in uncooked chicken skin do; 0.48 ppm As res in uncooked chicken skin do; 0.48 ppm As res in uncooked chicken skin do; 0.48 ppm As res in uncooked chicken skin do; 0.48 ppm As res in uncooked chicken skin do; 0.48 ppm As res in uncooked chicken fat do
- Magnesium carbonate B&N, GRAS/FS 184.1425; Part 163, Cacao Pdts; Part 137, Cereal Flours; Part 133, Cheeses; Part 155, Cnd Peas; Part 135, Frozen Desserts: Part 582 Animal Feeds
- Magnesium chloride B&N, GRAS/FS; 172.560, Modified Hop Extract 184.1426
- Magnesium cyclamate NNS, ILL, Removed from the GRAS list 10-21-69, Legal only in pdts complying with drug provision of the law - 189.135
- Magnesium hydroxide MISC, GRAS/FS 184.1428; Part 155, Cnd Peas; Part 582 Animal Feeds
- Magnesium oxide MISC, GRAS/FS, GMP 184.1431; Part 163, Cacao Pdts; Part 155, Cnd Peas; Part 135 Frozen Dessert; DS/NUTR, GRAS, GMP 182.5431; Part 582 Animal feeds
- Magnesium phosphate (di-, tri- basic) NUTR/DS, GRAS, GMP 182.5434, 184.1434
- Magnesium silicate AC, GRAS/FS, GMP 182.2437; < 2.0% In table salt; Part 169.179, Vanilla Powder
- Magnesium stearate MISC, GRAS, GMP 184.1440; As migratory substance from pkg materials when used as a stabilizer; AF, REG, Defoaming agent comp 173.340; anti-caking agent -172.863
- Magnesium sulfate NUTR/DS, GRAS, GMP 182.5443, 184.1443
- Maidenhair fern FL/ADJ, REG, GMP, In Alcoholic Beverages only 172.510
- Malic acid, L-malic acid MISC, GRAS/FS, GMP -184.1069; < 3.4% Nonalcoholic Beverages; < 3.0% Chewing Gum; < 0.8% Gelatins, Puddings & Fillings; < 6.9% - Hard Candy; < 2.6% - Jams & Jelles; < 3.5% Processed Fruits & Juices; < 3.0% - Soft Candy; < 0.7% - All other food; 131.144, Acidified Skim Milk; 146.113, Cnd Fruit Nectars; Part 150 (150.141, 150.161), Fruit Pdts; Part 169 (169.115, 169.140, 169.150), Dressings & Flavorings; Part 582 - Animal feeds
- Malt (extract) ESO, GRAS
- Mait syrup (mait extract) FLAV, GRAS, GMP -184.1445; nutrs in Part 133 (133.178, 133.179, 133.180); comp of color additive caramel - 73.85
- Maltodextrin GRAS, GMP From corn and potato starch -184.1444
- Maltose NUTRS, Part 133 (133.124, 133.178, 133.179, 133.180) Cheeses
- Mandarin oil ESO, GRAS 182.20
- Manganese bacitracin FEED, REG, See Bacitracin, manganese
- Manganese chloride -DS/NUTR, GRAS, GMP -182.5446, 184.1446
- Manganese citrate DS/NUTR, GRAS, GMP 182.5449, 184.1449
- Manganese gluconate DS/NUTR, GRAS, GMP -182.5452, 184.1452
- Manganese glycerophosphate DS/NUTR, GRAS, GMP-182.5455, 182.8455
- Manganese hypophosphite DS/NUTR, GRAS, GMP -182.8458
- Manganese sulfate DS/NUTR, GRAS, GMP 182.5461, 184.1461
- Manganese salts (acetate, carbonate, chloride, soluble citrate, gluconate, ortho-phosphate, dibasic phosphate, sulfate, oxide)
 NUTR/DS, GRAS, In animal feed 582.80
- Manganous oxide DS/NUTR, GRAS, GMP 182.5464
- Mannitol NUTR, GRAS/INTERIM, < 98.0% Pressed Mints; < 5.0% Hard Candy; < 31.0% Chewing Gum; < 40.0% Soft Candy; < 8.0% Frostings; < 15.0% Jams & Jellies; < 2.5% all other food; Label "Excess consumption may have laxative effect" if daily ingestion < 20 g mannitol, In foods 180.25
- Maple, mountain FL/ADJ, REG, GMP, In conjunction w/flavors 172.510
- Marigold, pot SP, GRAS 182.10
- · Marjoram, pot SP, GRAS 182.10
- Marjoram, sweet SP/ESO, GRAS 182.10, 182.20
- Massaaranduba balata REG, GMP, Comp of chewing gum base 172.615
- Massaaranduba chocolate REG, GMP, Comp of chewing gum base 172.615
- Materials used as fixing agents in the immobilization of enzyme preparations 173.357
- Mate ESO, GRAS 182.20
- Melengestrol acetate FEED, REG, ZERO In edible tissues & by-products of cattle as a res 556.380; Use in cattle feeds 558.342, 558.542
- Melissa (see Balm) ESO, GRAS 182.20
- Menadione DS, PD, Extension for use as a dietary suppl w/limit of 1 mg/day revoked 3/22/63. No food additive regulation
 authorizing use of menadione in prenatal suppls or any other food pdt issued
- Menadione dimethylphyrimdinol bisulfite (2-hydroxy-4, 6- dimethyl pyrimidinol salt of menadione) FEED, REG, 2.0 g/ton As nutritional suppl in chicken & turkey feed for prevention of vitamin K deficiency 573.620; 10.0 g/ton In swine feed 573.620
- Menhaden oil (hydrogenated and partially hydrogenated) NUTR, GRAS 184.1472

- Menthol ESO, GRAS 182.20
- Menthyl acetate ESO, GRAS 182.20
- N-{Mercaptomethyl)phthalimide S-(0,0-dimethyl phosphorodithioate) VET/PEST, REG Use: Liquid 524.1742
- Methacrylic acid-divinyl benzece copolymer MISC, REG, GMP Carrier for Vitamin B12 in nutritional suppls -172.775
- Methionine (L- & -DL forms) NUTR, REG 172.320, DL form not for infant foods; Animal Feeds 582.5475
- Methionine hydroxy analog and its calcium salts -NUTR/DS, GRAS, Animal feeds 582.5477
- Methyl alcohol residues SOLV, REG, < 50 ppm As residual solvent in mfr of spice oleoresins; < 2.2% by wt In hop extract for beer -173.250; < 100 ppm - In modified hop extract for beer - 172.560
- Methylcellulose (USP methylcellulose) -MISC, GRAS/FS, Except methoxy content 27.5 & 31.5% dr wt basis 182.1480; Part 150 (150.141, 150.161), Fruit Butters, Jellies; VET, REG, For use in mastitis formulation for treating dairy animals - 526.820
- Methylene chloride SOLV, REG, < 30 ppm As residual solvent in mfr of spice oleoresins 173.255; < 10 ppm In decaffeinated roasted coffee & decaffeinated soluble (instant) coffee; < 2.2% - As res in hop extract. Extract added before or during cooking of beer; MISC, REG, < 5 ppm - In modified hop extract for beer - 172.560
- Methyl ester of rosin partially hydrogenated MISC, REG, GMP, As a constituent of chewing gum base 172.615
- Methyl esters of fatty acids produced from edible fats & oils MISC, REG, < 3% wt of aqueous & < 200 ppm raisins In dehydrating grapes to produce raisins, > 90% methyl esters of fatty acids; < 1.5% unsaponifiable material 172.225 Methyl esters of higher fatty acids - FEED, REG, In animal feed - 573.640
- Methyl ethyl cellulose MISC, REG, GMP, In food as aerating, emulsifying & foaming agent 172.872
- Methyl glucoside coconut oil ester MISC, REG, GMP, In mfr of sucrose & dextrose 172.816; FEED, REG, < 320 ppm Used as surfactant in molasses intended for use as comp of animal feeds - 573.660
- Methylparaben (methyl-p-hydroxybenzoate) PRES, GRAS/ FS 184.1490; < 0.1% by wt Part 150, Art Sw Jelly (150.141) & Preserves (150.161); REG, ZERO - Res in milk from dairy cows treated with mastitis formulations -556.390; Use & Info - 526.820
- Methyl prednisolone VET, REG, 10 ppb Res in milk -556.400
- Metoserpate hydrochloride -VET, REG, 0.02 ppm neg res In edible tissues of chickens 556.410: Use 520.1422
- Microcapsules MISC, REG, GMP, For flavoring oils & spices, Capsules contain succinvlated gelatin, arabinogalactan, silicon dioxide, glutaraldehyde, n-octyl alcohol & petroleum wax - 172.230
- Microcrystalline cellulose MISC, FS, Unlisted GRAS
- Microparticulated protein product MISC, GRAS, GMP, Thickener & texturizer in frozen dessert-type pdts. May not be used to replace milk fat in standardized frozen desserts.-184.1498
- Milk Clotting Enzymes 173.150 see Enzymes
- Mimosa (black wattle) flowers FL/ADJ, REG, GMP, In conjunction w/flavors only 172.510
- Mineral oil, white (Use limitations include all petroleum hydrocarbons that may be used in combination with white mineral for sliced potatoes - do; CTG, REG, GMP, on fruits & veg - 172.878; MISC, REG, GMP, Protective float on brine used in curing pickles - do; GMP, Float-sealant on fermentation fluids in mfr of vinegar & wine - do; < 0.6% - In food as release agent, binder & lubricant in/on capsules & tabs containing food for sp diet use - do; < 0.02% - Dr fruits & veg as release agent in drying pans - do; < 0.95% - Frozen meat as hot melt coating do; < 0.10% - Egg white solids as release agent in drying do; < 0.15% - Bakery pdts as release agent & lubricant - do; < 0.2% - Release, sealing & polishing agent in confectionery - do; < 0.2% - La molding starth uned in mfr of confectionery - do; < 0.2% - Antidusting agent in sorbic acid for food use - do; < 0.3% - In molding starch used in mfr of confectionery - do; < 0.6% - Release agent, binder &/or lubricant in/on capsules or tabs containing concentrates of flavors, spices, condiments, & nutrients intended for addition to food, excluding confectionery; & in capsules & tabs containing concentrates of navors, spices, containings, & naviers, & naviers, a feed grade biuret - do
- Mixed Carbohydrase and Protease enzyme product ENZ, GRAS, GMP 184.1027
- Modified Hop Extract FLAV, REG, GMP IN BEER 172,560
- Molasses (extract) ESO, GRAS 182.20
- Molecular sieve resins MISC, REG, GMP, For final purification of partially delactosed whey 173.40
- Monensin, monensin sodium FEED, REG, 0.05 ppm As res in edible tissues of cattle 556.420; 1.5 ppm As res in muscle tissue of chicken & turkey - do; 3.0 ppm - As res in skin w/fat of chicken & turkey - do; 4.5 ppm - As res in liver of chicken - do; Uses in chicken & cattle feeds -558.355, 558.1448b; Use as a medicated block for cattle -520.1448a; Use in Liquid Feed for cattle - 558.355; VET, REG, Use in goat feed - 558.340; 0.05 ppm - As res in edible tissues of cattle & goats - 556.420
- Monoammonium glutamate MISC, GRAS 182.1500
- Monobutyl esters of polyethylene-polypropylene glycol produced by random condensation of a 1:1 mixture by weight of ethylene oxide & propylene oxide with butanol BC, REG, GMP, Boiler water compound -173.310
- Monocalcium phosphate (calcium phosphate monobasic) B&N, GRAS/FS, X-ref calcium phosphate, monobasic 182.1217 182.5217, 182.6215, 182.8217; < 0.75 parts/100 parts of flour (Part 136, Bakery Pdts - 136.110, 136.115, 136.130, 136.160, 136.180); < 4.5 parts including sodium bicarbonate/100 parts of cereal pdt, Part 137 (137.180, 137.270); > 0.25% and < 0.75% phosphated flour; In Self-rising Cereal Flours or Meals - (Part 137 - 137.165, 137.175); In Fruit Butters, Jellies & Preserves, Part 150 (150.141; 150.161); < 0.1% wt of finished pdt Part 155 (155.170, 155.190, 155.200), Cnd Vegs
- Monochloracetic acid PRES, BAN, Any amount in beverages & other foods will serve to adulterate them -189.155
- Monoester of alpha -hydro -omega -hydroxy -poly (oxyethylene)poly (oxypropylene) poly (oxyethylene) ((minimum 15 moles) blocked copolymer derived from low erucic acid rapeseed oil - Defoaming agent component used in processing beet sugar -173.340
- Monoethanolamine MISC, REG, < 0.3 ppm in flume water Used in flume water for washing sugar beets prior to slicing operation - 173.315
- Monoglyceride citrate MISC, REG, < 200 ppm, As a synergist & solubilizer for antioxidants in oils & fats 172.832
- Monoglycerides, distilled VET, REG, For use in mastitis formulations for treating dairy animals 526.820
- Monoglycerides of fatty acids STAB, REG, GMP, Used in mfr of stearyl monoglyceridyl citrate for shortenings -172.755
- Mono- & diglycerides of edible fats or oils, or edible fat forming acids MISC, GRAS/FS 184.1505; EMUL <0.5% 166.40, Oleomargarine; comb w/monosodium phosphate derivatives <0.5% - Part 163 (163.123, 163.130, 163.135, 163.140, 163.145, 163.150, 163.153, 163.155) Cacao Pdts; FS, <20.0% of shortening ingredients - Part 136 (136.110, 136.115, 136.130, 136.160, 136.180), Bakery



Pdts

- Monoisopropyl citrate SEQ, GRAS, GMP 182.6511, X-ref "Isopropyl Citrate"; EMUL Part 166 (166.40, 166.110) Margarine
- Monopotassium glutamate MISC, GRAS 182.1516; NUTR/DS, REG 172.320
- Monopotassium phosphate (potassium phosphate, monobasic) MISC, GRAS/FS, < 0.5% In Frozen Eggs Part 160.110
- Monosodium glutamate FLAV, GRAS/FS, GMP 182.1; Part 155 (155.120, 155.130, 155.131, 155.170, 155.200, 155.201) Cnd Vegs; 158.170 - Frozen peas; 161.190 - Cnd Tuna; Part 169 (169.115, 169.140, 169.150) Food Dressings; NUTR/DS, REG -172.320; In animal
- Monosodium phosphate (sodium phosphate, monobasic) GRAS/FS, GMP, X-ref sodium phosphate (monobasic) & sodium phosphate (mono-, di-, and tribasic), MISC -182.1778, DS - 182.5778, SEQ - 182.6085, 182.6778, NUTR - 182.8778; Part 133 (133.173, 133.174), Cheeses, Various; Part 150 (150.141, 150.161), Art Sw Jellies, Jams & Preserves; < 0.5% - In frozen eggs - 160.110; Part 163 (163.123, 163.130, 163.135, 163.140, 163.145, 163.150, 163.153, 163.155), Chocolate Products
- Monosodium phosphate derivatives of mono- & diglycerides of edible fats or oils, or edible fat-forming fatty acids EMUL, GRAS, GMP - 184 1521
- Morantel Tartrate FEED/VET, REG, 1.2 ppm As res in uncooked edible cattle muscle tissue 556.425; 2.4 ppm As res in cattle liver do; 3.6 ppm - As res in cattle kidney do; 4.8 ppm - As res in fat - do; 0.4 ppm - As res in milk do; Use: As bolus - 520.1450; In cattle feed - 558.360; As sustained release triaminate cylinder sheet - 520.1450c
- Morpholine CTG, REG, GMP, As the salt(s) of one or more fatty acids meeting 172.860 specs as comp of protective coatings applied to fresh fruits & veg - 172.235; BC, REG, 10 ppm in steam - Except in steam in contact w/milk or milk pdts - 173.310
- Mullein flowers FL/ADJ, REG, GMP, In alcoholic beverages only 172.510
- Musk (tonquin musk) MISC, GRAS 182.50
- Mustard, brown or black SP, GRAS 182.10
- Mustard, white or yellow SP, GRAS 182.10
- Myristic acid CTG, REG, GMP 172.210; NUTR, GMP -172.860; AF used to process sugar beets and yeast -173.340
- Myristyl alcohol, synthetic MISC, REG, GMP, See fatty alcohols, synthetic 172.864
- Myrj 45 (polyoxyethylene 8-stearate) EMUL, ILL, (No petition filed) Use in foods unauthorized
- Myrrh FL/ADJ, REG, GMP, In conjunction w/flavors only -172.510
- Myrtle leaves FL/ADJ, REG, GMP, In alcoholic beverages only 172.510

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- Naphtha SOLV, in color additive mixtures for shell eggs, w/o penetration of color to interior of shell 73.1
- Narasin FEED, REG, Use: In broiler chicken feeds 58.363
- Naringin ESO, GRAS 182.20
- NDGA AOX, ILL, See Nordihydroguaiaretic acid -189.165
- Natamycin (pimaricin) FUNG, REG, applied on cheese as an antimycotic not to exceed 20 milligrams per kilogram (20 ppm) in the finished product -172.155
- Natural Flavoring Substances see individual flavoring or go to 172.510 for complete list
- Natural gas x-ref combustion product gas 173.350
- Neomycin VET, REG, 0.15 ppm neg res As res in milk 556.430:Use 520.455; 0.25 ppm neg res As res in edible tissues of calves do; Use - 520.1484
- Neotame NNS, REG, GMP, Sweetening agent and flavor enhancer in foods generally, except in meat in poultry, and in sugar substitute tablets - 172.829
- Nequinate FEED, REG, 0.1 ppm neg res As res in uncooked edible tissue of chickens 556.440; Use in chicken feeds 558.365
- Neroli, bigarade ESO, GRAS 182.20
- Niacin NUTR/DS, GRAS/FS 182.5530, 184.1530; Part 137 (137.165, 137.185, 137.235, 137.260, 137.305, 137.350) Cereal Flours; Part 139 (139.115, 139.117, 139.122, 139.155, 139.165), Macaroni & Noodle Pdts; 136.115, Enriched Bread
- Niacinamide -NUTR/DS, GRAS/FS -182.5535, 184.1535; Part 137 (137.165, 137.185, 137.235, 137.260, 137.305, 137.350), Cereal Flours; Part 139 (139.115, 139.117, 139.122, 139.155, 139.165), Macaroni & Noodle Pdts; 136.115, Enriched Bread
- Nicotinamide-ascorbic acid complex DS, REG, In multi-vitamin prepns as source of ascorbic acid & nicotinamide 172.315
- Nicarbazin FEED, REG, 4 ppm As res in uncooked muscle, liver, skin, & kidney of chickens 556.445; Use in chicken feeds 558.366
- Nickel GRAS, GMP 184.1537
- Nisin preparation MISC, GRAS 184.1538; < 250 ppm Antimicrobial in Cheese pdts, Part 133 (133.175., 133.176, 133.179, 133.180)
- Nitarsone FEED, REG, 0.5 ppm as arsenic As res in muscle meat & eggs of chicken 556.60; Use: Feeds -558.369
- Nitrités (sodium and potassium) X-ref sodium nitrite & potassium nitrite, PRES, PS, curing red meat & poultry pdts -181.34
- Nitrofurazone VET, REG, NOT PERMITTED FOR USE IN ANIMAL FEEDS USE WITHDRAWN 8/23/91
- Nitrogen MISC, GRAS/FS 184.1540; Part 169 (169.115, 169.140, 169.150), Dressings for Foods; Part 582.1540 Animal Feeds
- Nitrogen oxides BL, FS, Part 137 (137.105, 137.155, 137.160, 137.165, 137.170, 137.175, 137.180, 137.185), Cereal Flours
- 3-Nitro-4-hydroxyphenylarsonic acid (Roxarsone) FEED, REG, 0.5 ppm as arsenic In muscle meat & eggs of chickens as res -556.60; 2.0 ppm as arsenic - As res in edible by-products, turkeys, & swine - 556.60; 0.5 ppm as arsenic - As res in muscle tissue & byproducts other than liver & kidney - 556.60; For feed uses see: 558.530, 558.55, 558.58, 558.76, 558.78, 558.128, 558.376, 558.450, 558.410, 558.680
- Nitroimide w/Sulfanitran FEED, REG, ZERO res for Nitroimide As res in uncooked edible chicken tissue -556.220; Use in chicken feeds - 558.376
- Nitrosyl chloride BL, FS, GMP, Part 137 (137.105, 137.155, 137.160, 137.165, 137.170, 137.175, 137.180, 137.185, 137.200, 137.205), Cereal Flours
- Nitrous oxide MISC, GRAS, Propellant for dairy & veg-fat toppings in pressurized containers 184.1545
- Nonanoic acid SANI, REG 178.1010
- alpha-(p-Nonylphenyl)-omega-hydroxypoly(oxyethylene) SANI, REG, GMP, Adequate drainage
- Nordihydroguaiaretic acid (NDGA) AOX, ILL, Not legal for use in foods 189.165

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- Novobiocin FEED/VET, REG, 0.1 ppm In milk from dairy animals 556.460; 1.0 ppm In uncooked edible tissues of cattle, chickens, turkeys, & ducks 556.060; Uses in chicken, turkey, & duck feeds 558.415; 525.1590
- Nutmeg ESO/SP, GRAS 182.10
- Nystatin FEED, REG, ZERQ In eggs of poultry & in uncooked edible tissues & by-products of swine & poultry from use in feed as res -556.470; Use in chicken & turkey feeds - 558.430
- 0
- Oak moss FL/ADJ, REG, GMP, Thujone free Comp of flavors 172.510
- Oak, white, chips FL/ADJ, REG, GMP, In conjunction w/flavors 172.510
- Oak, (English), wood FL/ADJ, REG, GMP, In alcoholic beverages only 172.510
- Oat gum STAB, GRAS, GMP, Part 135.30, Frozen Desserts; Part 133 (133.178, 133.179, 133.180), Cheese Pdts
- Octadecylamine BC, REG, < 3.0 ppm in steam Excluding use of such steam in contact w/milk & milk pdts -173.310
- Octafluorocyclobutane MISC, REG, GMP, Propellent for food pdts 173.360
- n-Octanoic (caprylic) acid X-ref caprylic acid, MISC, GRAS 184.1025; < 0.013% baked pdts, < 0.04% cheeses, < 0.005% fats & oils, 0.016% snack foods, < 0.001% all other food categories 182.1025; CTG, GMP, fresh citrus fruit, 172.210; MISC, REG, GMP, 172.860; part of aliphatic acid mixture < 1.0% lye peeling soln for fruits & vegs, 173.315; AF, REG, in processing beet sugar & yeast, 173.340; SANI, REG, 109-218 ppm Comp of sanitizing solution 178.1010; PRES, GRAS, GMP, in cheese wraps -186.1025
- 1-Octenyl succinic anhydride-MISC, REG, < 3.0% alone or < 2.0% w/ < 2.0% aluminum sulfate Modifier for food starch 172.892; SANI - 178.1010
- n-Octyl alcohol AF, REG, GMP, Comp of microcapsules -172.230
- Octyl alcohol, synthetic MISC, REG, GMP, See Fatty alcohols, synthetic 172.864; SOLV, REG, extraction process for citric acid -172.280
- Octyldimethylamine and a mixture of n-carboxylic acids SANI, REG 178.1010
- Octyl gallate PRES, REG, <0.0075% in margarine -166.110
- Oil of sassafras FL/ADJ, BAN Illegal for use in foods 189.180
- Oil of sassafras, safrole free FL/ADJ, REG, GMP, Flavoring in food, See section 172.580 for specs
- Oleandomycin FEED, REG, 0.15 ppm As res in edible tissues of chickens, turkeys & swine 556.480; Uses -558.435
- Oleic acid MISC, REG, GMP In foods as a lubricant, binder, & defoaming agent & as comp in mfr of other "food grade" additives -172.840, 172.860, 172.863; CTG, GMP, fresh citrus fruit, 172.210; MISC, REG, < 1.0 ppm in flume water - Used in flume water for washing sugar beets prior to slicing operation - 173.315; GRAS, GMP, substance migrating from cotton in dry food pkg - 182.70; GRAS, GMP, substance migrating to food from paper pdts - 182.90
- Oleic acid derived from tall oil fatty acids MISC, REG, GMP As a comp in mfr of food-grade additives 172.862; CTG, GMP, on fresh citrus fruit, 172.210; AF, GMP, in processing beet sugar & yeast 173.340
- Olestra REG, May be used in place of fats and oils in prepackaged ready-to-eat savory snacks, and prepackaged, unpopped popcorn kernels that are ready-to-heat. In such foods, the additive may be used in place of fats and oils for frying or baking, in dough conditioners, in sprays, in filling ingredients, or in flavors - 172.867
- Olibanum oil FL/ADJ, REG, GMP, In conjunction w/flavors 172.510
- Onion ESO, GRAS 182.20
- Opopanax FL/ADJ, REG, GMP, In conjunction w/flavors 172.510
- Orange-bitter, flowers, peel-ESO, GRAS 182.20
- Orange-sweet, leaf, flower, peel ESO, GRAS 182.20
- Oregano (origanum, Mexican oregano, Mexican sage, origan) SP, GRAS 182.10
- Origanum ESO, GRAS 182.20
- Ormetoprim (2,4-Diamino-5(6-methylveratryl)pyrimi-dine) FEED, REG, 0.1 ppm As res in edible tissues of chickens, ducks, turkeys, salmonids & catfish - 556.490; Use in animal feed w/sulfadimethoxine - 558.575
- Orris root -FL/ADJ, REG, GMP, In conjunction w/flavors -172.510
- Ox bile extract EMUL, GRAS, GMP, < 0.002% cheese -184.1560
- Oxides of nitrogen BL, FS, GMP, Part 137, Cereal Flours
- Oxfendazol VET, REG, Use: As suspension for cattle -520.1630; 0.8 ppm As res in cattle; liver (target tissue) -556.495
- Oxystearin INH, REG, 0.125% comb wt of oil, plus the additive In cottonseed & soybean cooking & salad oils -172.818; INH, REG/FS, Part 169, Dressings for Foods; AF, REG, GMP, Comp of defoamer 173.340
- Oxytetracycline FEED/VET, REG, 3 ppm As res in uncooked kidneys of chickens & turkeys 556.500; 1 ppm -In uncooked muscle, liver, fat & skin of chickens & turkeys as res - 556.500; 0.1 ppm neg res - In uncooked edible tissues of salmonids, catfish, & lobsters as res - 556.500; 0.1 ppm neg res - In uncooked edible tissue of swine & beef cattle as res - 556.500; For feed uses, see: 558.450, 558.515, Injection - 522.1660; For use in drinking water of chickens in combination with Carbomycin -520.1660a; For use in tabs in cattle -520.1660c; Use: As soluble powder - 520.1660d
- Ozone STERL, REG, GMP (< 0.4 mg/1l bottled water), Sterilizing bottled water 184.1563 For use as an antimicrobial agent in the treatment, storage, and processing of foods, including meat and poultry - 173.368.
- P
- P-4000 (5-nitro-2-n-propoxyaniline) NNS, ILL Not legal in food 189.175
- Palmarosa ESO, GRAS 182.20
- Palmitic acid MISC, REG, GMP In foods as a lubricant, binder, & defoaming agent & as comp in mfr of other "food grade" additives -172.860; CTG, GMP, fresh citrus fruit, 172.210; AF, GMP, in the processing of foods - 173.340
- Pansy FL/ADJ, REG, GMP, In alcoholic beverages only -172.510
- D-Pantothenamide NUTR, REG, GMP, In foods for sp diet use 172.335
- D-Panthothenyl alcohol NUTR/DS, GRAS, GMP 82,5580
- Papain MISC, GRAS/FS, GMP 184.1585; 137.305 Enriched Farina; Part 136 Enriched Bread; Part 582.1585 Animal feeds

http://www.fda.gov/food/foodingredientspackaging/foodadditives/foodadditivelistings/ucm0 3/7/2012



- Paprika SP/ESO, GRAS 182.10; color additive, GMP -73.340
- Paprika oleoresin ESO, GRAS 182.20; color additive, GMP -73.345
- Paraffin wax (X-ref: Wax) MISC, REG, Comp of chewing gum base 172.615
- Parsley SP/ESO, GRAS 182.20
- Passion flower FL/ADJ, REG, GMP In conjunction w/flavors 172.510
- Patchouly FL/ADJ, REG, GMP, In conjunction w/flavors -172.510
- Peach kernel (persic oil) NAT, SP/FL/ADJ, GRAS -182.40
- Peach leaves FL/ADJ, REG, GMP, In alcoholic beverages only, < 25 ppm prussic acid in the flavor 172.510
- Peanut oil GRAS, GMP, substance migrating from cotton in dried food pkg 182.70
- Peanut stearine NAT, SP/FL/ADJ, GRAS 182.40
- Pectins (including pectin modified) EMUL, STAB, GRAS, GMP 184.1588; sodium methyl sulfate may be present in pectins < 0.1%, 173.385; Part 145, Cnd Fruit; Part 150, Fruit Butters, Jellies & Preserves
- Pelargonic acid MISC, REG, < 1.0% aliphatic acids In peeling solution for fruits & vegs 173.315
- Penicillin FEED/VET, REG, 0.05 ppm neg res Res in uncooked edible tissue of cattle 556.510; ZERO Res in uncooked edible tissues of chickens, pheasants, quail, sheep & swine; In eggs & in milk or in processed food in which milk has been used - 556.510; 0.01 ppm -Res in uncooked edible tissues of turkeys - do; For feed uses, see: 558.55, 558.58, 558.62, 558.76, 558.78, 558.105, 558.274, 558.505; Other - 520.1660, 522.1662
- Penicillium roquefortii MISC, FS, Part 133 Cheeses
- Pennyroyal (American) FL/ADJ, REG, GMP, In conjunction w/flavors 172.510
- Pennyroyal (European) FL/ADJ, REG, GMP, In conjunction w/flavors 172.510
- Pentaerythritol ester of maleic anhydride modified wood rosin CTG, REG, GMP, Coating on fresh citrus fruit 172.210
- Pentaerythritol ester of rosin X-ref Rosin
- Pepper, black, white SP/ESO, GRAS 182.10, 182.20
- Pepper, cayenne, red SP, GRAS 182.10
- Peppermint SP/ESO, GRAS 182.10, 182.20
- Pepsin ENZ, < 0.1% by wt in Enriched Farina 137.305
- Peptones NUTR/SUPPL, GRAS, GMP, Processing aid & surface acting agent 184.1553
- Peracetic acid MISC, REG, Modifier for food starch, < 0.45% of active oxygen 172.892; SANI, < 200 ppm -178.1010
- Perfluorohexane MISC, REG, GMP, Mixture containing 1% perfluorohexane used to cool or freeze chickens -173.342
- Periodic acid MISC, GMP, Fixing agent for the immobilization of enzyme preparations 173.357
- Peroxyacetic acid MISC, REG, For washing fruits and vegetables that are not raw agricultural commodities at levels < 80 ppm in wash</p> water - 173.315
- Peroxyacids -REG, Antimicrobial agent on red meat carcasses, parts, trim, and organs with maximum concentration of 220 ppm as peroxyacetic acid and maximum concentration of hydrogen peroxide of 75 ppm. - 173.370
- Persic oil (see apricot/peach kernel oil) NAT, SP/FL/ADJ, GRAS 182.40
- Peruvian balsam ESO, GRAS 182.20
- Petigrain (citrus aurantium) lemon, mandarin, or tangerine ESO, GRAS 182.20
- Petrolatum NF & USP FEED, REG, 3.0% in mineral suppls or 0.06% in total ration In animal feeds & mineral suppls to reduce dustiness & lubricant in pelleting, cubing or blocking feeds alone or comb/w white mineral oil - 573.720; CTG, REG, GMP, Coating for raw fruits & vegs - 172.880; AF, REG, in yeast & beet sugar - Comp of defoaming agent - 173.340; MISC, REG, < 0.2% - Release agent in confectionery - 172.880; < 0.15% - In bakery pdt as a release agent & lubricant, alone or comb/w white mineral oil - do; < 0.1% - In egg white solids from use as a release agent in drying pans - do; < 0.02% - In dr fruits & vegs from use as a release agent in drying pans - do
- Petroleum hydrocarbons (Synthetic isoparaffinic) MISC, REG, GMP, As ctg on shell eggs 172.882; In froth-flotation cleaning of vegs - do; As a float on fermentation fluid as in mfr of vinegar, wine & pickle brine - do; As a comp of ctg of fruits & vegs - 172.882; AF, REG, Comp of defoarning agent in yeast & beet sugar - 173.340; SOLV, REG, GMP (< 0.47 ppm of citric acid) comp solv for extraction of citric acid from Aspergillus niger fermentation;
- Petroleum hydrocarbons, odorless, light AF, REG, GMP, As defoamer in processing beet sugar & yeast -172.884, 173.340; MISC, REG, < 1.0 ppm - In modified hop extract of beer - 172.560; MISC, REG, GMP, As a float on fermentation fluids in mfr of vinegar & wine; In froth-floatation cleaning of vegs; As ctg on shell eggs - 172.884; In pest formulations - 172.884, 573.740
- Petroleum naphtha SOLV, REG, GMP, Ctg on fresh citrus -172.210, 172.250
- Petroleum wax AF, REG, in beet sugar & yeast, 173.340; MISC, REG, GMP, In chewing gum base & in other foods -172.615, 172.886; CTG, REG, GMP, Coating on cheese & fruits & vegs, 172.886; MISC, REG, < 50% of total wt of capsule & flavor - Comp of microcapsule for spice flavor for frozen pizza - 172.230, 172.886
- Petroleum wax, synthetic CTG, REG, GMP, On cheese & raw fruits & vegs 172.888; MISC, REG, GMP, In chewing gum base -172.615, 172.888; AF, REG, in beet sugar & yeast - Comp of defoaming agent - 173.340
- Phenol-formaldehyde, cross-linked, tetraethylenepentamine activated Ion exchange resin for treatment of food or potable water -173.25
- Phenol-formaldehyde, cross-linked, triethylenetetramine activated Ion exchange resin for treatment of food or potable water -173.25
- Phenol-formaldehyde, cross-linked, triethylenetetramine and tetraethylenepentamine activated Ion exchange resin for treatment of food or potable water -173,75
- Phenol-formaldehyde, sulfite-modified, cross-linked Ion exchange resin for treatment of food or potable water -173.25
- Phenylalanine, (L-form only) NUTR/DS, REG, Food Additive Reg 172.320
- Phosphoric acid MISC, GRAS/FS, GMP 182.1073; 131.144, Acidified Skim Milk; Part 133 (133.123, 133.124, 133.125, 133.129, 133.147, 133.169, 133.170, 133.171, 133.173, 133.174, 133.178, 133.179, 133.180) Cheese; SANI, REG, 178.1010; Part 582.1073 - In animal feed practices
- Phosphorus oxychloride MISC, REG, < 0.1% w/ < 10% propylene oxide In modifying food starch. Residual propylene chlorohydrin < 5 ppm - 172.892; < 0.1% or < 0.1% followed by either < 8% acetic anhydride or < 7.5% vinyl acetate - In modifying food starch, < 2.5% acetyl groups -172,892
- Pichia pastoris yeast 573.750

- · Pimenta oil, pimenta leaf ESO, GRAS 182.20
- Pine, dwarf, needles & twigs FL/ADJ, REG, GMP, In conjunction w/flavors 172.510
- · Pine, scotch, needles & twigs FL/ADJ, REG, GMP, In conjunction w/flavors 172,510
- Pine, white, bark FL/ADJ, REG, GMP, In alcoholic beverages only 172.510
- Pine, white oil FL/ADJ, REG, GMP, In conjunction w/flavors 172.510
- Pipsissewa leaves ESO, GRAS 182.20
- Poloxalene FEED, REG, GMP, In molasses block & as feed additive in dry premixes to be fed to cattle for control of legume (alfalfa, clover) bloat 558.464 & 520.1840; GMP, As liquified feed suppl 558.465; < 0.32 oz/ton of feed As a surfactant in flaking of feed grains 573.760
- Poly(acrylic acid-co-hypophosphite) sodium salt -BC, REG, < 1.5 ppm As a boiler water additive 173.310
- **Polyacrylamide** MISC, REG, GMP, As a film former ctg < 0.2% acrylamide monomer in the imprinting of soft-shell gelatin capsules 172.255; < 10 ppm & < 0.2% acrylamide monomer in wash water for fruits & vegs 173.315
- Polyacrylamide resin, modified MISC, REG, < 5 ppm by wt of juice Used as flocculent in the clarification of beet or cane sugar juice -173.10
- Poly(alkyl methacrylate) MISC, REG, GMP, Adjuvant in production of petroleum wax 172.886
- Polydextrose MISC, REG, GMP, As bulking agent, formulation aid, humectant, & texturizer in baked goods & baking mixes (fruit, custard, & pudding filled pies, cakes, cookies, & similar baked pdt only), chewing gums, confections, frostings & salad dressings, frozen dairy desserts & mixes, gelatins, puddings, fillings, hard & soft candy, film coating on single and multiple vitamin and mineral supplement tablets, where standards permit, pdts w/single serving ctg < 15 g polydextrose should have warning label for sensitive individuals to laxation effect 172.841
- Polyethylene FEED, REG, 0.5 lb per head per day for 6 days As roughage replacement in feedlot rations for cattle -573.780
- Polyethylene, mol. wt. 2,000 21,000 MISC, REG, As constituent of chewing gum base 172.615; Ion exchange resin material in mfr of grapefruit juice - 173.20
- Polyethylene, oxidized CTG, REG, GMP, On fresh citrus fruits, vegs & nuts 172.260
- Polyethylenimine reaction product with 1,2-dichloroethane MISC, GRAS, GMP, Fixing agent in the mfr of fructose corn syrup. Fixing agent for the immobilization of glucoamylase enzyme preparations from Aspergillus niger for use in the manufacture of beer 173.357.
- Polyoxyethylene (600) dioleate AF, REG, Defoamer agent comp in beet sugar & yeast 173.340
- Polyoxyethylene (600) monoricinoleate AF, REG, Defoamer agent comp in beet sugar & yeast 173.340
- Polyoxyethylene (23) lauryl ether Feed (Block), REG, Use: For bloat in cattle in block 520.1846;
- Polyethylene glycol BC, REG, GMP, In boiler water -173.310; AF, REG, GMP, Comp of defoaming agent -173.340; CTG, REG, GMP, Ctg on fresh citrus fruits -172.210
- Polyethylene glycol (mean molecular weight 200 -9,500) MISC, REG, GMP, Ctg, binder, plasticizing agent, and/or lubricant in tabs used for food; Adjuvant in nonnutritive sweeteners, vitamin & mineral prepns; Ctg for sodium nitrite to inhibit hygroscopic properties -172.820; ZERO - In milk - 172.820, 526.820
- Polyethylene glycol (400) dioleate EMUL, REG, < 10% by wt. of defoamer formulation Processing beet sugar & yeast 173.340
- Polyethylene giycol (400) mono- & di- oleate Feed, REG, 250 ppm in molasses Used as a processing aid in the production of animal feeds when present as a result if its addition to molasses - 573.800
- Polyglycerol esters of fatty acids EMUL, REG, GMP, Used as emulsifiers in food or as cloud inhibitors in veg & salad oils where not
 precluded by standards 172.854; 166.110 Margarine, Part 169 (169.115, 169.140, 169.150) Food Dressings
- Polyisobutylene (minimum molecular weight 1,200-2,500) MISC, REG, GMP, In chewing gum base 172,615
- Polyglyceryl phthalate ester of coconut oil fatty acids PEST, REG, GMP, Adjuvant for pesticide use 172.710
- Polymaleic acid and/or its sodium salts BC, REG, < 1 ppm in boiler feed water Boiler water additive 173.310; Specific uses: Boiler water additives, use individually or together at not greater than 4 ppm in processing of beet or cane sugar juice or liquor process steam 173.310, 173.45
- Polyoxyethylene glycol (400) mono- & di- cleates -EMUL, REG, In milk replacer formulations for calves -573.820
- Polyoxyethylene (23) lauryl ether FEED, REG, Use: In feed blocks for cattle 520.1846
- Polyoxyethylene (40) monostearate -AF, REG, Defoaming agent comp 173.340
- Polyoxyethylene-polyoxypropylene block polymers (avg molecular weight I900) SANI, REG, GMP, Adequate drainage 178.1010
- Polyoxyethylene-polyoxypropylene block polymers (avg molecular weight 2000) SANI, REG, GMP, Adequate drainage; May be used on glass containers for holding milk - 178.1010
- Polyoxyethylene-polyoxypropylene block polymers (avg molecular weight 2800) SANI, REG, < 80 ppm in soln Adequate drainage - 178.1010
- Polyoxyethylene (20) sorbitan monooleate See Polysorbate 80 172.840
- Polyoxyethylene (20) sorbitan monostearate See Polysorbate 60 172.836
- Polyoxyethylene (20) sorbitan tristearate -See Polysorbate 65 172.838
- Polyoxypropylene glycol (Minimum molecular weight 1000) BC, REG, GMP, In boiler water 173.310
- Polypropylene glycol (Molecular weight 1200-3000) AF, REG, Defoaming agent comp used in beet sugar & yeast 173.340
- Polysorbate 60 (Polyoxyethylene (20) sorbitan monostearate) EMUL, REG, < 0.40% alone or w/one or comb of sorbitan monostearate, Polysorbate 80, Polysorbate 65 In whipped veg oil topping. Total amount any comb < 0.77% 172.836;REG, < 0.46% alone or any w/sorbitan mono-stearate Polysorbate 65 In cake mixes & cakes (dry wt basis). Total amt any comb < 0.66% do; REG, < 0.5% of wt of finished pdts alone or in comb w/sorbitan mono-stearate Part 163 (163.123, 163.130, 163.135, 163.140, 163.145, 163.150, 163.153, 163.155), Cocoa Pdts do; REG, < 0.46% alone or any comb w/sorbitan monostearate Part 163 (163.123, 163.130, 163.135, 163.140, 163.145, 163.150, 163.153, 163.155), Cocoa Pdts do; REG, < 0.46% alone or any comb w/sorbitan monostearate &/or Polysorbate 65 In cake icing &/or cake filling containing shortening do, Total amt any comb < 1.0% of finished wt; MISC, REG, < 0.2% To impart greater opacity to sugar-type confectionery coatings do; EMUL, REG, < 0.3% In non-standardized dressings do; REG, < 1.0% alone or comb Polysorbate 80 In shortening & edible oils intended for use in foods where standards permit do; REG, < 0.40% alone or/w sorbitan monostearate or/w polysorbate 65 In veg oil/water emulsion used as milk or cream substitute in beverage coffee do; REG, < 4.5% by wt of nonalcoholic mix As foaming agent in nonalcoholic beverages used in mixing do; REG, FS, 0.5% by wt of flour alone or w/other emul As a dough conditioner in yeast-leavened bakery pdts, 136.3 do; EMUL, REG, GMP, Alone or w/sorbitan monostearate in formulations of white mineral oil &/or petroleum wax for ctgs on raw fruits & vegs do; REG, O.5% dry wt. basis As dispersing agent in art sw gelatin desserts & mixes do; REG, Total amt comb < 1.0%; < 0.05% in finished pdt As emulsifier in chocolate flavored syrups do; REG, As surfactant & wetting agent for natural & artificial colors in food; < 4.5% by wt of mix In powdered soft drink mixes; < 0.5% by wt of mix In sugar base</p>



gelatin dessert mixes; < 3.6% by wt. of mix - In art sw gelatin dessert mixes; < 0.5% by wt. of mix - In sugar based pudding mixes; < 0.5% by wt. of mix - In art sw pudding mixes - do; < 0.1% alone or w/one or comb of polysorbate 65 and/or polysorbate 80 - In ice cream, frozen sherbet and non-standardized frozen desserts; REG, < 0.1% followed by either < 8% acetic anhydride or < 7.5% vinyl acetate - In modifying food starch < 2.5% acetyl groups - 172.892; AF, REG, GMP, Defoaming agent comp - 173.340; REG, diluent for acota additive mixtures for drug use exempt from certification -73.1001; FEED, REG, GMP alone or comb/ Sorbitan monostearate - In mineral premixes or diet suppl for animal feeds - 573.840

- Polysorbate 65 (Polyoxyethylene (20) sorbitan tristearate) EMUL, REG/FS, < 1.0% alone or w/Polysorbate 80 Part 135, Frozen Desserts; Non-standardized Frozen Desserts 172.838; REG, < 0.32% alone or any comb w/Polysorbate 60 &/or Sorbitan monostearate In cake or cake mix on a dry wt basis total amt any comb < 0.66% -do; REG, < 0.40% alone or w/one or comb of Sorbitan monostearate, Polysorbate 60, or Polysorbate 80 In whipped edible oil topping do; Total comb < 0.40%; REG, < 0.32% alone or any comb w/Polysorbate 60, Sorbitan monostearate In cake icing or cake filling do; Total amt any comb < 1.0% of finished wt; REG, 0.40% alone or w/sorbitan monostearate or w/Polysorbate 60 In veg fat-water emulsion used as milk or cream substitute in beverage coffee do; AF, REG, GMP, Defoaming agent compound 173.340; REG, diluent for color additive mixtures for drug use exempt from certification 73.1001
- Polysorbate 80 (Polyoxyethylene (20) sorbitan monooleate) EMUL, REG/FS, < 0.1% alone or with Polysorbate 65 Part 135, Frozen Desserts 172.840; AF, REG, < 4 ppm, Used as yeast defoaming agent do; SDA, REG, < 500 ppm (0.05%) In pickles & pickle products do; SDA, REG, < 175 mg/day based on recommended daily dose In vitamin-mineral prepns containing calcium caseinate w/o fat-soluble vitamins do; < 300 mg/day In fat-soluble vitamins in vitamin & vitamin-mineral prepns w/o calcium caseinate; < 475 mg/day In vitamin-mineral prepns containing both calcium caseinate & fat-soluble vitamins; MISC, REG, < 10 ppm in finished sodium chloride As a surfactant in pdtn of coarse crystal sodium chloride do; EMUL, REG, < 360 mg/day In sp diet foods do; SDA, REG, < 30 ppm For dill oil in cnd spiced green beans, Part 155, Cnd Vegs do; EMUL, REG, < 1.0% alone or comb/ Polysorbate 60 In shortening & edible oils do; EMUL, REG, < 0.0175% In scild water for poultry defeathering followed by potable water rinse do; SDA, REG, < 0.082% on dry wt basis As dispersing agent in gelatin desserts & gelatin dessert mixes do; REG, As an adjuvant added to herbicide or plant-growth regulator dilutions prior to their application do; AF, REG, < 0.008% by wt of finished pdt In creaming mixture for cottage cheese & low fat cottage cheese as identified in 133.128 & 133.131 do;REG, < 0.005% by wt of finished pdt In creaming mixture for natural & art colors in barbecue sauce do; REG, In milk replacer formula for calves 573.860</p>
- Polysorbate 80 w/ carrageenan or carrageenan salts -MISC, REG, < 5% Polysorbate 80 In carrageenan or its salts 172.623; < 500 ppm Polysorbate 80 In finished food containing additive 172.623
- Polyvinyl Acetate (molecular weight 2000 minimum) -MISC, REG, Comp of chewing gum base 172.615; REG, diluent for color additive mixtures for drug use exempt from certification - 73.1
- Polyvinylpolypyrrolidone MISC, REG, Clarifying agent in beverages & vinegar to be removed with filtration -173.50
- Polyvinylpyrrolidone (avg molecular weight 40,000, except in beer) MISC, REG, < 10 ppm (average molecular weight 360,000) <p>In beer from use as a clarifying agent 173.55; < 40 ppm In vinegar do; REG, < 60 ppm In wine from use as a clarifying agent do;</p>

 REG, GMP, As tableting adj in NNS & flavor, vitamin & mineral concentrates in tab form do; MISC, REG, GMP, Stab, lodging agent & dispersant in NNS in conc liquid form or in vitamin & mineral concentrates in liquid form do; ADJ, REG, GMP, As an adj w/ vinyl chloride, vinylidene chloride copolymer for ctg on fresh citrus fruit 172.210; REG, diluent for color additive mixtures for drug use exempt from
 certification -73.1, 73.1001
- Poly(2-vinylpyridine-co-styrene) FEED, CTG Coating agent for nutrients for cattle 573.870
- Pomegranate ESO, GRAS 182.20
- Poplar buds FL/ADJ, REG, GMP, In alcoholic beverages only 172.510
- Poppy seed SP, GRAS 182.10
- Pot marigold SP, GRAS 182.10
- Pot marjoram SP, GRAS 182.10
- Potassium acetate B&N, FS Unlisted GRAS
- Potassium acid tartrate B&N/MISC, GRAS, GMP -184.1077; Part 150 (150.141, 150.161), Art Sw Jelly & Preserves; Part 582.1077 In animal feeds
- Potassium alginate STAB, GRAS Stabilizer & thickener, < 0.1% in confections & frostings, < 0.7% in gelatins & puddings, < 0.25% in processed fruits & fruit juices, < 0.01% in all other food categories 184.1610
- Potassium alum MISC, FS, Part 137, Flour; REG, used as comp of bleaching agent for dairy pdts in cheese prepn in Part 133 (133.102, 133.103, 133.104, 133.106, 133.111, 133.141, 133.165, 133.181, 133.195)
- Potassium bicarbonate B&N/MISC, GRAS/FS, GMP -184.1613, Part 163 (163.110, 163.111, 163.112, 163.114, 163.117), Cacao Pdts; Part 582.1613 - In animal feeds
- Potassium bisulfite -PRES, GRAS/FS, GMP, Restrictions: Not in meats, foods recognized as source of Vitamin B1, raw fruit & veg (incl fresh potatoes, i.e., not frozen, cnd or dehydrated) - served fresh - 182.3616
- Potassium bromate BL, FS, < 75 ppm added to whole wheat flour; 50 ppm in white flour Part 137 (137.155, 137.205), Cereal Flours; Part 136 (136.110, 136.115, 136.130, 136.160, 136.180), Bakery Pdts; MISC, REG, < 75 ppm calc as bromine - In malt for pdtn of fermented malt beverages or distilled spirits - 172.730
- Potassium bromide SANI, REG, < 200 ppm available halogen Adequate drainage 178.1010; MISC, REG, For washing fruits & vegs -173.315
- Potassium caprate MISC, REG, GMP 172.863
- Potassium caprylate MISC, REG, GMP 172.863
- Potassium carbonate B&N/MISC, GRAS/FS, GMP -184.1619; Part 163, Cocoa Pdts; Used in treatment of modified hop extract 172.560; BC, REG 173.310; Part 582.1619 In animal feeds 184.1619
- Potassium caseinate MISC, FS, Part 135 (135.110, 135.140), Frozen Desserts
- Potassium chloride MISC, GRAS/FS 184.1622; Part 150 (150.141, 150.161), Art Sw Jelly & Preserves, Added to margarine 166.110; DS/NUTR, GRAS, GMP - 182.5622
- Potassium citrate MISC, GRAS/FS, GMP 182.1625; SEQ, GRAS, GMP 182.1625; Part 133 (133.169, 133.173, 133.179), Cheese; Part 150 (150.141, 150.161), Art Sw Jelly & Preserves; Part 582.1625 In animal feeds
- Potassium cyclamate NNS, ILL, Removed from GRAS list 10-21-69 189.135
- Potassium dichloroisocyanurate SANI, REG, < 100 ppm available halogen Adequate drainage 178.1010
- Potassium fumarate REG, GMP, sp diet 172.350
- Potassium gibberellate REG, < 2 ppm as gibberellic acid in malting barley 172.725
- Potassium gluconate MISC, FS, GMP

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- Potassium glycerophosphate DS, GRAS, GMP -182.5628; NUTR, GRAS, GMP 182.8628
- Potassium hydroxide -B&N/MISC, GRAS/FS -184.1631; Part 163, Cacao Products; Part 582.1631 In animal feeds
- Potassium hypochlorite SANI, REG, < 200 ppm available halogen as chlorine Adequate drainage 178.1010
- Potassium iodate BL/DS, GRAS/FS 184.1635; < 0.0075% by wt flour Part 136 (136.110, 136.115, 136.130, 136.160, 136.180), Bakery Pdts; Animal feed; Trace mineral in animal feeds - 582.80
- Potassium iodide NUTR, GRAS, < 0.01% In table salt as source of dietary iodine 184.1634; DS, REG, < 225 micrograms daily ingestion For foods labeled w/o reference to age or physiological state 172.375; < 45 micrograms daily ingestion for infants For food when age or the cond of pregnancy or lactation are specified - 172.375; < 105 micrograms daily ingestion for < 4 yrs old; < 225 micrograms daily ingestion for adults & children 4+ yrs old; < 300 micrograms daily ingestion for pregnant or lactating women; Trace mineral in animal feeds - 582.80; SANI, REG, < 25 ppm iodine in soln - Adequate drainage -178.1010
- Potassium lactate MISC, GRAS, GMP, used as flavor enhancer or adjuvant, humectant & pH control agent -184.1639
- Potassium laurate MISC, REG, GMP 172.863
- Potassium metabisulfite PRES, GRAS/FS, GMP, Restrictions: Not in meats, foods recognized as source of Vitamin B1, raw fruit & veg (incl fresh potatoes, i.e., not frozen, cnd or dehydrated) - served fresh - 182.3617
- Potassium N-methyldithiocarbamate REG, 3.5 ppm in terms of wt of sugar cane being processed Comp of bacteriostat in controlling microorganisms in cane sugar mills; 4.1 ppm in terms of wt of raw cane or beets - Comp of bacteriostat in controlling microorganisms in cane sugar & beet sugar mills - 173.320
- Potassium myristate MISC, REG, GMP 172.863
- Potassium nitrate MISC, REG, < 200 ppm of finished roe Used as a curing agent in the processing of cod roe -172.160; PRES, PS, source of nitrite used in pdtn of cured red meat & poultry pdts - 181.33
- Potassium nitrite PRES, PS, source of nitrite used in pdtn of cured red meat & poultry pdts 181.34
- Potassium oleate MISC, REG, GMP 172.863
- Potassium palmitate MISC, REG, GMP 172.863
- Potassium permanganate BL, REG, < 50 ppm calc as manganese used as bleaching agent in modified food starch 172.892 Potassium persulfate - REG, GMP, Adj for coatings of fresh citrus - 172.210
- Potassium phosphate (dipotassium phosphate) (dibasic) SEQ, GRAS/FS, GMP 182.6285; Part 133 (133.169, 133.173, 133.179), Process Cheeses
- Potassium phosphate (monobasic) REG, <0.5% by wt of frozen eggs as a color preservative 160.110
- Potassium salts of fatty acids MISC, REG, GMP, In foods as binder, emulsifier, & anti-caking agent 172.863 Potassium sorbate - PRES, GRAS/FS - 182.3640; < 0.3% as sorbic acid - Part 133 (133.123, 133.173, 133.179, 133.180, 133.188) Cheeses; FS, < 0.1% by wt - Part 150 (150.141, 150.161), Fruit Butter & Art Sw Jelly & Preserves; < 0.1% or 0.2% total in combination
- w/other pres, Margarine & Oleomargarine 166.110; GRAS, substance migrating to food from paper & paperboard pdts 182.90 • Potassium stearate - MISC, REG, GMP, Specifications -172.863; AF for beet sugar & yeast - 173.340; Comp of chewing gum - 172.615
- Potassium sulfate FL/ADJ, GRAS, GMP 184.163
- Potassium trichloroisocyanurate SANI, REG, < 100 ppm avail halogen as chlorine Adequate drainage 178.1010
- Potassium triphosphate BC, REG, GMP 173.310
- Prednisolone VET, REG, ZERO In milk from dairy animals treated with mastitis formulations 556.520
- Prednisone VET, REG, ZERO In milk from dairy animals treated with mastitis formulations 556.530
- Prickly ash bark ESO, GRAS 182.20
- Procaine penicillin VET, REG, Used as injection in animals 574.274b et al; 0.05 ppm Res in uncooked edible tissues of cattle -556.510; 0.01 ppm - Res in uncooked edible tissues of turkey - 556.510; ZERO - Res in uncooked edible tissues of chicken, pheasants, quail, swine, sheep, in eggs, in milk or any food processed with milk - 556.510
- Progesterone VET, REG, ZERO No res above stated tolerances in uncooked edible tissues & by-products of lambs & steers 556.540; Use as implant in combination with estradiol valerate - 522,1940 (NOT TO BE USED IN VEAL CALVES)
- Proline (L form only) NUTR/DS, REG, Food Additive Reg 172.320
- Propane MISC, GRAS, GMP 184.1655; Combustion product gas 173.350
- Propanoic acid -SANI, REG 178.1010
- Propionic acid PRES, GRAS/FS, GMP 184.1081; Part 133 (133.149, 133.195), Propionic acid produced by bacteria, Swiss & Gruyere Cheese
- Propyl alcohol, normal FEED, REG, Used in feeds as a source of metabolizable energy 573.880
- Propylene glycol MISC, GRAS/FS 184.1666; Part 169 (169.175, 169.176, 169.177, 169.178, 169.180, 169.181), Vanilla Extract; Carrier for enzyme modified soy protein; Part 582.1666 - In animal feeds
- Propylene glycol alginate (Propylene glycol ester of alginic acid) MISC, REG, stab < 0.5% by wt in frozen dairy desserts, emul/stab/or thickener < 0.5% by wt in baked goods, emul/stab/thickener <0.9% by wt in cheeses, in - Part 135, Frozen Desserts; Part 166 Marg; REG, GMP, In processing foods - 172.858; FS, Part 133, Cheeses; Part 169, Dressings; MISC, REG, GMP, Adj for ctg fresh citrus fruit - 172,210

 Propylene glycol mono- & di- esters of fats & fatty acids - EMUL, REG/FS, GMP - 172.856; Part 136 (136.110, 136.115, 136.130, 136.160, 136.180), Bakery Pdts; AF, REG, GMP, Defoamer agent compound - 173.340

- Propylene oxide MISC, REG, < 25% for treatment In modifying food starch. Residual propylene chlorohydrin < 5 ppm 172.892
- Propyl gallate AOX, GRAS, AOX content <0.02% of fat or oil content incl essential oil content of food 184.1660; Margarine 166.110; REG, 0.1% alone or/BHA/BHT - Comp of chewing gum base - 172.615; Pressure-sensitive adhesives used as the food contact surface of labels &/or tapes applied to food - 175.125
- Propylparaben (propyl-p-hydroxybenzoate) PRES, GRAS/FS, GMP 184.1670; < 0.1%, Part 150, 150.141, 150.161), Art Sw Jelly &</p> Preserves; REG, 0.025%, In mastitis formulations - 526.820; REG, ZERO - In milk from dairy animals - 556.550
- Protein concentrate, whole fish DS, REG, GMP -172.385
- Protein, hydrolyzed MISC, FS, Part 161.190(a), Cnd Tuna
- Protein, vegetable, hydrolyzed Cnd Vegs, Part 150 (155.120, 155.130, 155.170, 155.200)
- Prussiate of soda, yellow (Na ferrocyanide decahydrate) AC, REG, < 13 ppm calc as anhydrous Na ferrocyanide Anticaking agent in salt - 172.490; AC/FEED, REG, 13 ppm -do; In salt for animal consumption -573.1020
- Psyllium seed husk STAB, FS, 0.5% by wt Part 135, Frozen Desserts

http://www.fda.gov/food/foodingredientspackaging/foodadditives/foodadditivelistings/ucm0. 3/7/2012

Food Additive Listings > F Additive Status List



- Pteroyiglutamic acid (aka folic acid) X-ref Folic acid, DS, REG, < 0.40 mg w/o ref to age or physiological state As comp of dietary suppls, provided directions for use, when followed < tolerance - 172.345
- Pyrantel tartrate FEED/VET, REG, 10 ppm In swine liver & kidney as res 556.560; 1 ppm In swine muscle as res 556.560; Uses: In swine feeds - 558.485; Powder & Tabs - 520.2045
- Pyridoxine hydrochloride NUTR/DS, GRAS, GMP -182.5676, 184.1676
- Pyrophyllite (aluminum silicate monohydrate) -AC/MISC, REG, < 2.0% in complete animal feed As sole anticaking aid, blending agent, pelleting aid, or carrier in animal feed 573.900

Q

- Quassia FL/ADJ, REG, GMP, In conjunction w/flavors -172.510
- Quaternary ammonium chloride combination PRES, REG, See Reg, In proc of sugar cane juice and in cane sugar mills 172.165, 173.320
- Quebracho bark FL/ADJ, REG, GMP, In conjunction w/flavors 172.510
- Quillaia (soapbark) FL/ADJ, REG, GMP, In conjunction w/flavors 172.510
- Quince seed NAT, GRAS 182.40
- Quinine hydrochloride or sulfate FLAV, REG, < 83 ppm as quinine Flavoring agent in carbonated bevs 172.575

R

- Radiation and Radiation sources Ionizing radiation for the treatment of food REG gamma rays of the radionuclides cobalt-60 or cesium-137; electrons generated from machine sources at energies not to exceed 10 million electron volts; and x-rays generated from machine sources at energies not to exceed 5 million electron volts (MeV) or 7.5 MeV if the x-ray target material is tantalum or gold-179.26; radiofrequency radiation including microwave 179.30; ultraviolet radiation from low pressure mercury lamps at a wavelength of 253.7 nanometers (2,537 Angstroms). -179.39; pulsed light when source is xenon flashlamps to emit broadband radiation ranging from 200-1,100 nanometers(nm) with pulse duration no longer than 2 milliseconds (msec). 179.41; ionizing radiation for control of food-borne pathogens, and extension of shelf-life, in fresh iceberg lettuce and fresh spinach at a dose up to 4.0 kiloGray (kGy). 21 CFR 179.26
- Rapeseed oil, fully hydrogenated STAB, GRAS, GMP, See REG, Use in peanut butter 184.1555(a)
- Rapeseed oil, fully hydrogenated, superglycerinated -EMUL, GRAS, GMP, See REG, Use in shortenings for cake mixes 184.1555(b)
- Rapeseed oil, low erucic acid MISC, GRAS, GMP, See REG, Except in infant formula 184.1555(c); May be declared on label as "Canola Oil"
- Rapeseed oil, low erucic acid, partially hydrogenated MISC, GRAS, GMP, See Reg, Except in infant formula -184.1555(c)(2)
- Red saunders (red sandalwood) FL/ADJ, REG, GMP In alc bevs only 172.510
- Regenerated cellulose MISC, REG, See REG, As an ion-exchange resin 173.25(a)(20)
- Rennet (Rennin) MISC, GRAS, Milk Part 131; Cheese and Rel Cheese Prods Part 133; In animal feeds -582.1685; GRAS, GMP, See REG 184.1685
- Resin, from formaldehyde, acetone, or tetraethylenepentamine MISC, REG, See REG, As an ion-exchange resin 173.25(a)(8)
- Rhatany root FL/ADJ, REG, GMP, In conjunction w/flavors 172.510
- Rhizopus oryzae MISC, REG, Source of carbohydrase for prod of dextrose from starch 173.130
- Rhubarb, garden root (Rheum rhaponticum L) FL/ADJ, REG, GMP, In alc bevs only 172.510
- Rhubarb root FL/ADJ, REG, GMP, In conjunction w/flavors 172.510
- Riboflavin NUTR/DS, GRAS/FS, Cereal Flours Part 137; Alimentary Pastes Part 139; Bakery Prods Part 136; GRAS, GMP 182.5695, 184.1695
- Riboflavin-5-phosphate NUTR/DS, GRAS, GMP -182.5697, 184.1697
- Rice bran wax CTG/MISC, REG, < 50 m Ctg for candy 172.890;< 50 ppm Ctg for fresh fruits & vegs -72.890; < 2.5% In chewing gum as plasticizing material 172.890, 172.615
- Robenidine HCI FEED, REG, 0.2 ppm As residue in chicken fat & skin 556.580; 0.1 ppm neg residue In other edible tissue of chickens - 556.580; Use & other info -558.515
- Rose absolute (otto of roses, attar of roses) ESO, GRAS 182.20
- Rose buds, flowers, fruit (hips), leaves ESO, GRAS
- Rose geranium ESO, GRAS 182.20
- Roselle FL/ADJ, REG, GMP, In alc bevs only 172.510
- Rosemary SP/ESO, GRAS 182.10, 182.20
- Rosidinha (rosadinha) MISC, REG 172.615
- Rosin (colophony) FL/ADJ, REG, GMP, In alc bevs only -172.510
- Rosin, gum, glycerol ester MISC, REG, GMP, Softener for chewing gum 172.615
- Rosin, gum or wood, pentaerythritol ester, partially hydrogenated pentaerythritol ester, or partially hydrogenated glycerol ester - MISC, REG, GMP, Softener for chewing gum - 172.615
- Rosin, methyl ester, partially hydrogenated MISC, REG, GMP, Softener for chewing gum 172.615; SY/FL -172.515
- Rosi, partial dimerized, calcium salt or partially (catalytically) hydrogenated CTG, REG, GMP, Ctg on fresh citrus fruit 172.210
 Rosin, polymerized glycerol ester, partially hydrogenated glycerol ester, or partially dimerized glycerol ester -MISC, REG, Softener for chewing gum 172.615
- Rosin, tall oil, glycerol ester-MISC, REG, GMP, Softener for chewing gum 172.615
- Rosin, wood CTG, REG, GMP, Ctg on fresh citrus fruit -172.210
- Rosin, wood, glycerol ester MISC, REG, GMP, Softener for chewing gum 172.615; MISC, REG 172.735
- Rosin, wood, pentaerythritol ester of maleic anhydride CTG, REG, GMP, Ctg on fresh citrus fruit 172.210
- Roxarsone FEED/VET, REG, See 3-nitro 4-hydroxy phenyl arsenic acid (Arsenic) for tolerances 556.60; Use: In chicken & swine feeds 558.530; In Drinking Water of chickens, turkeys, & swine 520.2087, 520.2088
- Rubber, butadiene-styrene MISC, REG, Comp of chewing gum base 172.615

- Rubber (natural) smoked sheet and latex solids -MISC, REG, Comp of chewing gum base 172.615
- Rue SP/ESO, GRAS, < 2 ppm 184.1698
- Rue, oil FL/ADJ, GRAS, See REG 184.1699
- Rum FLAV, FS, Cnd Fruits Part 145

s

- Saccharin (ammonicalcium, or sodium) -NNS, REG/ITEM, < 12 mg /fl oz In bevs and fruit juice drinks & bases or mixes 180.37; < 20 mg/teaspoonful of sugar sweetening equivalency In sugar substitutes for cooking or table use 180.37; < 30 mg/serving In processed foods -180.37; Part 145 Cnd Fruits; Part 150 Fruit Butters, Jellies, Pres, and Rel Prods
- Saffron SP/ESO, GRAS 182.10, 182.20 Not permitted in standardized mayonnaise (169.140) or salad dressing (169.150); Color additive 73.500
- Safrole & any oil containing safrole ILL, No legal use in food 189.180
- Safrole-free extract of sassafras FLAV, REG, Flavoring in food 172.580
- Sage, Greek ESO/SP, GRAS 182.10, 182.20
- Sage, Spanish SP, GRAS 182.20
- St. John's bread ESO, GRAS 182.20
- St. Johnswort leaves, flowers and caulis FL/ADJ, REG, GMP In alc bevs only, Hypericin-free alcohol distillate form only 172.510
- Salicylic acid MISC, REG, Zero Tolerance Residue in milk from dairy animals 556.590; Use Comp of mastitis formulations 526.820
- Salinomycin FEED, REG, Use In chicken feeds -558.550
- Salts of fatty acids MISC, REG, GMP 172.863
- Sandalwood, white (yellow or East Indian), red -FL/ADJ, REG, GMP In conjunction w/flavors 172.510
- Sandarac FL/ADJ, REG, GMP, In alc bevs only 172.510
- Sanitizing solutions SANI, REG, For use on food proc equipment followed by adequate draining. See individual compounds for limitations on uses and concentrations -178.1010
- Sarsaparilla FL/ADJ, REG, GMP, Natural flavor -172.510
- Sassafras extract, safrole free FLAV, REG, GMP -172.580
- Sassafras leaves FLAV/ADJ, REG, GMP, Must be safrole free 172.510
- Savory, winter or summer SP/ESO, GRAS 182.10,
- Schinus molle ESO, GRAS 182.20
- Selenium as Sodium Selenite or Selenate FEED, REG, < 0.1 ppm in complete feed Uses: In complete feeds for chickens, swine, turkeys, sheep, beef cattle, dairy cattle & ducks 573.920; < 0.3 ppm In prestarter & starter rations for swine 573.920
- Senna, Alexandria FL/ADJ, REG, GMP, In conjunction w/flavors 172.510
- Serine (L-form only) NUTS/DS, REG 172.320
- Serpentaria (Virginia snakeroot) FL/ADJ, REG, GMP, In alc bevs only 172.510
- Sesame SP, GRAS 182.10
- Silica aerogel AF, GRAS 182.1711
- Silicon dioxide AC, REG, < 2.0% by wt of food Used only in those foods where anticaking effect is demonstrated 172.480; REG, < 2% by wt of feed In feed & feed components as anticaking or grinding agent 573.940 for use limit; FS, < 1.0% by wt of finished food In dried egg prods wi moisture < 5% by wt 160.105, 160.185; STAB, REG, Stab for use in prod. of beer to be removed by filtration prior to final proc 172.480; REG, GMP, As an absorbent for d1-bcopheryl acetate and pantothenyl alcohol in tablet-ed foods for special dietary use 172.480; REG, GMP, Comp of microcapsules for flavoring oils 172.230; REG, GMP, Comp of defoaming agents 173.340; GRAS, Migr to food from paper and paperboard prods 182.90
- Silver nitrate -- REG, Used as an antimicrobial agent, in an aqueous solution with hydrogen peroxide, in bottled water. Silver nitrate NTE 17 ug/kg in the treated bottled water, and hydrogen peroxide NTE 23 mg/kg. - 172.167
- Simaruba bark FL/ADJ, REG, In alc bevs only 172.510
- Sloe berries (blackthorn berries) ESO, GRAS 182.20
- Smoke prepared by condensing or precipitating wood smoke FLAV, FS, Past Proc Cheese Part 133; Cnd Tuna -161.190
- Snakeroot, Canadian (wild ginger) FL/ADJ, REG, GMP, In conjunction w/flavors 172.510
- Sodium acetate B&N, GRAS/FS, Art Sw Fruit Jelly -150.141, Art Sw Fruit Pres and Jams 150.161; BC, REG, Comp of boiler water additive - 173.310; GRAS, GMP -184.1721; GRAS, Migr from cotton and cotton fabrics used in dry food pkg - 182.70; In animal feeds -582.121
- Sodium acid phosphate SEQ, GRAS, Cheeses and Rel Cheese Prods Part 133; Froz Desserts Part 135; GRAS, GMP 182.6085
- Sodium acid pyrophosphate B&N, GRAS/FS, Cereal Flours Part 137; EMUL, FS, Cheeses and Rel Cheese Prods Part 133; INH, FS, < 0.5% finished food Prevent struvite crystal formation in cnd tuna 161.190(a); In animal feeds 582.1087
- Sodium alginate STAB, GRAS/FS, Cheeses and Rel Prods Part 133; Froz Desserts Part 135; Art Sw Fruit Jelly 150.141; Art Sw Fruit Pres and Jams - 150.161; GRAS - 184.1724; BC, REG, Comp of boiler water additive -173.310
- Sodium n-alkylbenzene sulfonate (alkyl group predominately C12 and C13 and not less than 95% C10 to C16) MISC, REG, < 0.2% in wash water Used in washing or to assist in lye peeling of fruits & vegs 173.315
- Sodium aluminate BC, REG, Comp of boiler water additive 173.310; GRAS, Migr to food from paper and paperboard prods 182.90
 Sodium aluminosilicate (sodium silicoaluminate) AC, GRAS/FS, < 2%, Dried whole eggs and egg yolks -160.105, 160.185; Grated Cheeses 133.146; GRAS, < 2% -182.2727
- Sodium aluminum phosphate MISC, GRAS/FS, Self-rising Flours & Meals Part 137; EMUL, GRAS/FS, Cheeses, Various Part 133; GRAS, GMP - 182.1781; In animal feeds - 582.1781
- Sodium aluminum sulfate MISC, GRAS/FS, Cereal Flours Part 137
- Sodium arsanilate FEED, REG, See Arsenic
- Sodium ascorbate PRES, GRAS, GMP 182.3731
- Sodium benzoate GRAS/FS, < 0.1%, Fruit Pres & Art Sw Fruit Jelly & Pres 150.141, 150.161; < 0.1%, Margarine -166.110; Conc.
 Orange Juice 146.152, 146.154; GRAS, GMP 184.1733



- Sodium bicarbonate MISC, GRAS/FS, Cnd Peas Part 155; Cnd Tomato Paste 155.191; Cacao Prods Part 163; Cereal Flours Part 137; GRAS, GMP - 184.1736; MISC, REG, Used to treat sodium methyl sulfate - 173.385; SANI, REG - 178.1010(b)(41); In animal feeds -
- Sodium bisulfite PRES, GRAS, Not in meats or foods recognized as source of Vit B1, etc., See REG 182.3739; GRAS, FS, Cnd Shrimp -161.173
- Sodium borohydride MISC, REG, < 310 ppm boron Used as modifier for hop extract 172.560
- Sodium bromide SANI, REG, < 200 ppm avail halogen -Adequate drainage 178.1010
- Sodium calcium aluminosilicate hydrated (sodium calcium silicoaluminate) AC, GRAS, GMP, < 2% 182.2729
- Sodium carbonate BC, REG, Boiler water additive -173.310; B&N, GRAS/FS, Cacao Prods Part 163; Cnd Vegs Part 155; In animal feeds - 582.1742; GRAS, GMP -184.1742
- Sodium carbonate w/sodium mono- & dimethyl naphthalene sulfonates MISC, REG, For use in potable water systems 172.824; MISC, < 0.2% in wash water - Used in washing or to assist in lye peeling of fruits and vegs -173.315
- Sodium carboxymethylcellulose (cellulose gum) The sodium salt of carboxymethylcellulose, not less than 99.5% on a dry weight basis - MISC, GRAS, GMP, With one or any mixture of two or more gums permitted - 182.1745; STAB, As optional ingredient in following standardized foods: Cheeses, Various - Part 133; Food Dress - Part 169; Art Sw Jelly & Fruit Jams - Part 150; Froz Desserts - Part 135
- Sodium chioride GRAS/FS, Milk and Cream Part 131; Cheeses and Rel Cheese Prods Part 133; Cnd Fruits -Part 145; Cnd Vegs Part 155; Veg Juices - Part 156; Froz Vegs - Part 158; Fish and Shellfish - Part 161; Cacao Prods - Part 163; Margarine - Part 166; Food Dress and Flavorings - Part 169; GRAS, GMP - 182.1; GRAS Migr from cotton and cotton fabrics used in dry food pckg -182.70; GRAS, Migr to food from paper and paperboard prods - 182.90
- Sodium chlorite MISC, REG, GMP, Modifier for food starch 172.892
- Sodium citrate B&N/SEQ, GRAS/FS, Milk and Cream Part 131; Cheeses and Rel Cheese Prods Part 133; Art Sw Fruit Jelly, Jam, and Pres 150.141, 150.161; GRAS, GMP 182.1751, 182.6751; In animal feeds 582.1751
- Sodium cloxacillin VET, REG, 0.01 ppm As residues in milk 556.165;
- Sodium cyclamate NNS, ILL Removed from GRAS list 10-21-69 189,135
- Sodium N-cyclohexyl-N-palmitoyl taurate SANI, REG, Followed by adequate drainage 178.1010(b)(40)
- Sodium decylbenzenesulfonate MISC, REG, GMP -Adjuvant for ctg on fresh citrus fruits 172.210
- Sodium diacetate MISC, GRAS, GMP 184.1754
- Sodium dichloroisocyanurate SANI, REG, < 100 ppm available halogen Followed by adequate drainage -178.1010
- Sodium dimethyldithiocarbamate PRES, REG, 3.0 ppm in raw cane Comb w/ Disodium ethylenebisdithiocarbamate for control of microorganisms in cane sugar mills -173.320; 3.0 ppm in raw cane or sugar beets - Comb w/Disodium ethylene bisdithiocarbamate & ethylenediamine for control of microorganisms in cane sugar and beet sugar mills - 173.320
- Sodium dioctylsulfosuccinate SANI, REG, GMP, Followed by adequate drainage 178.1010
- Sodium dodecylbenzenesulfonate MISC, REG, < 0.2% in wash water Surface active agent in commercial detergents used in washing fruits & vegs, or to assist in lye peeling these prods 173.315
- Sodium 2-ethylhexylsulfate MISC, REG, < 0.2% in wash water Used in washing or to assist in lye peeling of fruits & vegs 173.315 Sodium ferrocyanide decahydrate - See Prussiate of soda
- Sodium fluoride NUTR, PD/ILL, GMP, X-ref Fluorine containing compounds
- Sodium glucoheptonate BC, REG, < 1 ppm cyanide in compound Boiler water additive 173.310
- Sodium gluconate MISC, GRAS/FS, GMP 182.6757
- Sodium hexametaphosphate BC, REG, GMP, Boiler water additive 173.310; SEQ, GRAS/FS, Fruit Jellies Part 150; Cheese Part 133; Froz Desserts - Part 135; Food Dress - Part 169; GRAS, GMP - 182.6760; GRAS, Migr to food from paper and paperboard prods
- Sodium humate BC, REG, GMP, Boiler water additive -173.310
- Sodium hydroxide B&N, GRAS/FS, Cocoa Prods Part 163; MISC, GRAS 184.1763; BC, REG, GMP, Boiler water additive 173.310; In animal feeds - 582.1763; MISC, REG, < 1% - In modifying food starch - 172.892; MISC - Used in manufacture of modified hop extract 172.560; MISC -Used in manufacture of hydroxylated lecithin - 172.814
- Sodium hypochlorite MISC, REG, < 0.055 lb Cl per lb drystarch; 0.45% active 02 from H2O2; and < 25% propyleneoxide, or not to exceed 0.0082 lb Cl per lb of dry starch - In modifying food starch, residual propylene- chlorohydrin < 5 ppm - 172.892; REG, GMP, Used in washing or to assist in the lye peeling of fruits & vegs - 173.315; SANI, See REG, < 200 ppm available Cl - Followed by adequate drainage -178.1010
- Sodium hypophosphite EMUL/STAB, GRAS, GMP -184,1764
- Sodium iodate DS, GRAS, Animal feed; Source of Iodine -Trace Mineral 582.80
- Sodium iodide DS, GRAS, Animal feed; Source of Iodine Trace Mineral 582.80; SANI, REG, < 25 ppm I in sln -Followed by adequate drainage - 178.1010
- Sodium lactate MISC, GRAS, GMP 184.1768
- Sodium laurate MISC, REG, X-ref wi fatty acids, salts of -172.863
- Sodium lauryl sulfate EMUL, REG, < 125 ppm (0.0125%) In liquid & froz egg whites 172.822; < 1,000 ppm (0.1%) In egg white solids - 172.822; < 5,000 ppm (0.5%) wt of gelatin - Whipping agent in gelatin used in preparing marshmallows - 172.822; AF, REG, < 25 ppm in finished product - As a surfactant in fumaric acid-acidulated dry bev base & fruit juice drinks unless precluded by a food standard -172.822; SDA, REG < 10 ppm - In the partition of high and low melting fractions of crude veg oils and animal fats provided partitioning is followed by a conventional refining process that includes alkali neutralization and deodorization of the fats and oils - 172.822; CTG, REG, GMP - For ctg on fresh citrus fruit - 172.210; SANI, REG, GMP - Followed by adequate drainage - 178.1010
- Sodium lignosulfonate BC, REG, GMP, Boiler water additive 173.310
- Sodium lignum sulfonate FEED, REG, < 4% of finished pellets As sole pelleting aid in animal feeds 576.600
- Sodium metabisulfite PRES, GRAS, GMP, Not in meats or foods recognized as a source of Vit B1, etc., See REG -182.3766; GRAS/FS, Fruit Jellies - Part 150; BC, REG, GMP, Boiler water additive - 173.310
- Sodium metaphosphate EMUL, GRAS/FS, Cheeses -Part 133; GRAS, GMP 182.6769
- Sodium metasilicate BC, REG, GMP, Boiler water additive 173.310; MISC, GRAS, GMP 184.1769a
- Sodium methyl sulfate EMUL, REG, < 0.1% in pectin -As a proc residue in pectin 173.385
- Sodium mono- & dimethylnaphthalenesulfonates -MISC, REG, < 0.2% in wash water Used in washing or to assist in lye peeling of



fruits & vegs - 173.315; REG, < 250 ppm - In sodium carbonate for use in potable water systems - 172.824; AC, REG, < 0.1% - In sodium nitrite used in cured fish and meat - 172.824

- Sodium myristate MISC, REG, X-ref wi fatty acids, salts of 172.863
- Sodium nicotinate ILL, Request for extension of statute and for filing of petition denied. Deceptive use in ground meat for color retention.
- Sodium nitrate PRES, REG, < 500 ppm Alone or w/ sodium nitrite as a preservative and color fixative in smoked, cured salmon, shad, & sablefish, or in meat-curing preparations for home curing of meat & meat prods (including poultry & wild game) - 172.170; BC, REG, GMP, Boiler water additive -173.310; PS (by USDA) - As a source of nitrite, w/ or w/o sodium or potassium nitrite, in the prod of cured red meats and poultry - 181.33
- Sodium nitrite PRES, REG, < 200 ppm Alone or with sodium nitrate as a preservative and color fixative in smoked, cured salmon, shad & sablefish; or in meat curing preparations for home curing of meat & meat prods -172.175; REG, > 100 ppm to < 200 ppm - In loin muscle of smoked chub - 172.177; REG, < 10 ppm (0.001% sodium nitrite) - Alone as color fixative in smoked, cured tuna -172.175; REG, < 20 ppm - In cnd pet food containing meat & fish and their by-prods - 573.700; PS (by USDA) - As a color fixative and preservative, wi or without sodium or potassium nitrate, in the curing of red meat and poultry - 181.34
- Sodium 1-octanesulfonate SANI, REG Comp of sanitizing sln > 156 to < 312 ppm, isopropyl alcohol may be added as an optional ingredient Followed by adequate draining 178.1010(b)(27); Comp of sanitizing sln Sulfuric acid may be added as an optional ingredient Followed by adequate draining 178.1010
- Sodium oleate MISC, REG, X-ref wi fatty acids, salts of -172.863
- Sodium palmitate MISC, REG, X-ref wi fatty acids, salts of 172.863
- Sodium pantothenate MISC, GRAS, GMP 182.5772
- Sodium pectinate MISC, GRAS In animal feeds -582.1775; EMUL/STAB, GRAS, GMP 184.1588
- Sodium phosphate (mono-, di-, and tribasic) MISC, GRAS, GMP 182.1778; SEQ, GRAS, GMP 182.6778; DS/NUTR, GRAS, GMP 182.5778, 182.8778; BC, REG, GMP, Boiler water additive 173.310; GRAS/FS Cheeses and Rel Cheese Prods Part 133; Art Sw Fruit Jellies, Pres, and Jams 150.141, 150.161
- Sodium phosphate (monobasic) (monosodium phosphate) PRES, GRAS/FS, < 0.5% Froz Eggs 160.110; Cacao Prods Part 163</p>
- Sodium phosphate (dibasic) (disodium phosphate) GRAS, GMP 182.6290; GRAS/FS- Froz Deserts Part 135; Enriched Farina -137.305; Macaroni and Noodle Prods - Part 139;
- Sodium polyacrylate-acrylamide resin MISC, REG, < 2.5% wt of juice or liquor In beet sugar or cane sugar juice to control organic and mineral scale - 173.5
- Sodium polyacrylate BC, REG, GMP, Boiler water additive 173.310; MISC, REG, < 3.6 ppm of raw juice weight -Mineral scale inhibition in beet and cane sugar prod
- Sodium polymethacrylate BC, REG, GMP, Boiler water additive 173.310

Sodium potassium tartrate - MISC, GRAS/FS, Cheeses - Part 150; Art Sw Fruit Jellies, Pres, and Jams - 150.141, 150.161; MISC, GRAS, GMP - 184.1804; In animal feeds -582.1804

- Sodium propionate PRES, GRAS/FS, GMP, Cheeses and Rel Cheese Prods Part 133; Art Sw Fruit Jellies, Pres, and Jams -150.141, 150.161; Bakery Prods - Part 136; MISC, GRAS, GMP - 184.1784
- Sodium pyrophosphate SEQ, GRAS, GMP 182.6787
- Sodium saccharin -NNS, GRAS/INTERIM, See Saccharin 180.37
- Sodium salts of fatty acids MISC, REG, GMP, Binder, emulsifier, and anticaking agent in food 172.860, 172.863
- Sodium sesquicarbonate MISC, GRAS, GMP -184.1792
- Sodium silicate BC, REG, GMP, Boiler water additive -173.310;
- Sodium silicoaluminate AC, GRAS/FS, X-ref Sodium aluminosilicate Dried whole eggs and egg yolks 160.105, 160.185
- Sodium sorbate PRES, GRAS/FS, < 0.3% by wt as sorbic acid Cheeses and Rel Cheese Prods, alone or comb wi potassium sorbate or sorbic acid Part 133; 0.1% by wt -Fruit Butter, Art Sw Fruit Jelly, Pres, and Jams 150.110, 150.141, 150.161; < 0.2% in comb or < .1% Margarine -160.110; GRAS Migr to food from paper and paperboard prods 182.90
- Sodium stearate MISC, REG, Comp of chewing gum base 172.615; X-ref wi 172.863; STAB, PS, Migr from food pckg material 181.29
 Sodium stearoyi lactylate REG, As follows unless precluded by Food Standards 172.846; < 0.5% by weight of flour As dough
- strengthener, emulsifier, or proc aid in baked prods, pancakes, waffles and prepared mixes of these; < 0.2% by weight of finished food As surface active agent, emulsifier, or stabilizer in icings, fillings, puddings, toppings and prepared mixes of these; < 0.3% by weight of finished emulsion - As emulsifier or stabilizer in liquid and solid edible fat-water emulsion used as substitutes for milk and cream in coffee; < 0.5% of dry weight - As formulation aid, proc aid, or surface active agent in dehydrated potatoes; < 0.2% by weight - As emulsifier, stabilizer, or texturizer in snack dips and cheese and cheese product substitutes and imitations; < 0.25% by weight of finished food - As an emulsifier, stabilizer, or texturizer in sauces or gravies, prods containing same, and prepared mixes of same
- Sodium stearyl fumarate MISC, REG, < 1% by weight -As conditioning agent in dehydrated potatoes or in processed cereals for cooking unless food standards precludes such use 172.826; REG, < 0.2% by weight of food As a conditioning agent in starch thickened or flour-thick-ened foods 172.826; STAB, REG, < 1% by weight of flour used As stabilizing agent in non-yeast leavening bakery prods 172.826; REG, < 0.5 part/100 part by weight of flour As dough conditioner in yeast-leavened bakery prods -172.826, Bakery Prods Part 136
- Sodium sulfachloropyrazine monohydrate VET, REG, ZERO Residues in edible tissues of chickens 556.625; Use: Drinking water -520.2184
- Sodium sulfate BC, REG, GMP, Boiler water additive -173.310; MISC, REG, GMP, Comp of chewing gum base 172.615
- Sodium sulfide MISC, REG, GMP, Comp of chewing gum base 172.615
- Sodium sulfite BC, REG, GMP, Boiler water additive -173.310; PRES, GRAS, GMP, Not in meats or foods recognized as source of Vit B1, etc., See REG 182.3798
- Sodium sulfo-acetate derivatives (mono- & diglycerides) EMUL, FS, <0.5% Margarine 166.110
- Sodium tartrate MISC, GRAS/FS, Cheeses and Rel Cheese Prods Part 133; Art Sw Fruit Jellies, Pres, and Jams 150.141, 150.161; MISC, GRAS, GMP - 184.1801
- Sodium tetrapyrophosphate SEQ, GRAS/FS, X-ref wi tetrasodium pyrophosphate 182.6789
- Sodium thiosulfate SEQ, GRAS, GMP, < 0.1% In table salt 184.1807; < 0.00005% In alc bevs 184.1807
- Sodium p-toluenesulfonchloramide SANI, REG, GMP Followed by adequate drainage 178.1010(b)(3)
- Sodium trichloroisocyanurate SANI, REG, < 100 ppm available Cl Followed by adequate drainage 178.1010

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- Sodium trimetaphosphate MISC, REG, < 0.4% as phosphorus Food starch modifier 172.892
- Sodium tripolyphosphate BC, REG, GMP, Boiler water additive 172.310; MISC, REG, < 0.4% as phosphorus -Food starch modifier -172.892; SEQ, GRAS, GMP -182.1810, 182.6810; GRAS, Migr from cotton and cotton fibers used in dry food pckg - 182.70; GRAS, Migr to food from paper and paperboard prods - 182.90; GRAS - In animal feeds - 582.1810
- Sodium xylenesulfonate SANI, REG, 31-62 ppm -Comp of sanitizing sln 178.1010
- Solvent Extraction Process for Citric Acid MISC, REG -173.280
- Sorbic acid PRES, GRAS/FS, < 0.2% Cheeses and Cheese Rel Prods Part 133; PRES, GRAS/FS, < 0.3% by weight as sorbic acid, alone or comb wi potassium or sodium sorbate -Cheeses and Rel Cheese Prods Part 133; < 0.1% Art Sw Fruit Jellies, Pres, and Jams 150.141, 150.161; < 0.2% by wt Concentrated Orange Juice -146.154; <0.1% alone or <0.2% in comb with other preservatives Margarine 166.110; GRAS, GMP 182.3089
- Sorbitan monooleate EMUL, REG, See REG, Use: In clarification of cane and beet sugar juice or liquor 173.75
- Sorbitan monostearate EMUL, REG, < 0.4% alone or any comb of Polysorbate 60, 65, or 80 of the weight of finished whipped edible oil topping; > 0.4% in comb if Polysorbate 60 < 0.77% and Sorbitan monostearate < 0.27% of weight of finished whipped edible oil topping In whipped edible oil toppings 172.842; REG, < 0.4% of weight of finished product In veg oil/water emulsion used as a substitute for milk or cream in bev coffee; Used alone or comb wi Polysorbate 60 and/or 65 172.842; REG, < 0.61% In cakes & cake mixes alone or comb wi < 0.46% Polysorbate 60 and/or < 0.32% Polysorbate 65 Total amount any comb < 0.66% 172.842; REG, < 1.0% by weight of finished product In non-standardized confectionery ctg alone or comb wi < 0.5% Polysorbate 60, Total amount any comb < 1.0% 172.842; REG, < 0.7% In cake icing or filling containing shortening, alone or comb wi < 0.46% Polysorbate 60 and/or < 0.32%
 Polysorbate 65, Total amount any comb < 1.0% 172.842; CTG, REG, GMP, Alone or wi Polysorbate 60 in formulations of white mineral oil and/or petroleum wax for ctgs on raw fruits & vegs -172.842; AF, REG, GMP, Comp of defoaming agents -173.340; FEED, REG, GMP, In mineral premixes & dietary supplies for animal feeds, alone or comb wi Polysorbate 60 573.960;MISC, REG, < 1% by weight of dry yeast Used alone for rehydration aid in prod of active dry yeast -172.842; FS, Cacao Prods Part 163
- Sorbitol MISC, GRAS, GMP, See REG 184.1835; GRAS, Migrate to food from paper and paperboard prods -182.90
- Soybean oil, hydrogenated GRAS, Migr from cotton and cotton fabrics used in dry food pckg 182.70
- Soybean oil fatty acids, hydroxylated AF, REG, GMP, Defoamer agent compound 173.340

Soybean protein, isolated - GRAS, Migr to food from paper and paperboard prods; GRAS/FS, Margarine -166.110

- Spearmint SP/ESO, GRAS 182.10, 182.20
- Spectinomycin VET, REG, 0.1 ppm (neg res) In edible tissues of chickens as residue 556.600; Use: Drinking water 520.2123b; Injection - 522.2120
- Sperm oil CTG, REG, GMP, Adjuvant in ctgs on fresh citrus fruits 172.210
- Sperm oil, hydrogenated MISC, REG, GMP, Release agent or lubricant in bakery pans 173.275
- Spike lavender ESO, GRAS 182.20
- Spruce needles & twigs FL/ADJ, REG, GMP, In conjunction w/flavors only 172.510
- Stannous chloride PRES, GRAS/FS, < 15 ppm calc as tin Cnd Asparagus in glass 155.200; GRAS/FS, 15-20 ppm calc as tin Cnd Asparagus in glass wi lids lined wi inert material -155.200; MISC, REG < 20 ppm calc as tin For color retention in glass-packed asparagus 172.180; GRAS, GMP (< 0.0015% calc as tin) 184.1845
- Star anise SP, GRAS 182.10
- Starch SANI, REG Comp, wi or without dextrin, of sanitizing sln 178.1010
- Starch, modified food MISC, FS, GMP, Salad Dressing 169.150; Vanilla powder 169.179; Vanilla-vanillin powder -169.182; REG, GMP, See REG for types of modified starch -172.892
- Starch, acid modified GRAS, Migr to food from paper and paperboard prods 182.90
- Starch, pregelatinized GRAS, Migr to food from paper and paperboard prods 182.90; FEED, REG, 30 gm/twice daily Use in water of newborn calves - 520.2155
- Starch, unmodified GRA5/FS, GMP, Cereal Flours and Rel Prods Part 137; Salad Dressing 169.150; Vanilla Powder 169.179; Vanillavanillin powder - 169.182; GRAS, Migr to food from paper and paperboard prods - 182.90
- Starter Distillate FL/ADJ, GRAS, GMP 184.1848
- Stearic acid MISC, REG, GMP, Comp of chewing gum -172.615; REG, X-ref wi fatty acids 172.860; GRAS, GMP, 184.1090
- Stearyl alcohol, synthetic MISC, REG, GMP, X-ref wi fatty alcohols, synthetic 172.864
- Stearyl citrate PRES, GRAS/FS, <0.15% Margarine -166.110; GRAS, GMP, <0.15% 182.6851
- Stearyl monoglyceridyl citrate STAB; REG, GMP, In shortenings 172.755
- Stearoyl propylene glycol hydrogen succinate See Succistearin
- Sterculia gum (karaya gum) MISC, GRAS 184.1349
- Storax, or styrax FL/ADJ, REG, GMP, In conjunction w/flavors only 172.510
- Streptomycin FEED/VET, REG, ZERO In edible tissues of chickens, turkeys, swine and in eggs as residue -556.610; Other Dosage forms 520.2158
- Styrene MISC, REG, See REG Ion-exchange membrane 173.20; Ion-exchange resin 173.25; SY/FL -172.515
- Styrene, polymeric compounds MISC, REG, See REG Ion-exchange resins 173.25
- Succinic acid GRAS/FS Acidified Skim Milk 131.144; MISC, GRAS, GMP 184.1091; In animal feeds 582.1091
- Succinic acid, 2,2-dimethylhydrazide PLANT REGULATOR, REG, 135 ppm In dried prunes resulting from application to the growing plums as residue 193.410
- Succinic anhydride MISC, REG, GMP, Food starch modifier 172.892
- Succinvlated gelatin MISC, REG, < 15% Comp of microcapsules for flavoring oils 172.230
- Succinylated monoglycerides EMUL, REG, < 3.0% by weight In liquid & plastic shortenings 172.830; MISC, REG/FS, < 0.5% weight
 of flour As a dough conditioner -alone or comb/w calcium stearyl-2-lactylate, lactylic stearate or sodium stearyl fumarate (See Part 136) 172.830
- Succistearin (stearoyl propylene glycol hydrogen succinate) EMUL, REG, GMP, In or wi shortenings & edible oils used in cakes, cake mixes, fillings, icings, pastries, and toppings - 172.765
- Sucralose NNS, REG, GMP, Sweetening agent -172.831
- Sucrose NUTRS, GRAS, GMP 184.1854
- Sucrose acetate isobutyrate (SAIB) STAB, REG, Used as a stabilizer of emulsions of flavoring oils used in nonalcoholic beverages not

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to exceed 300 milligrams/kilogram of the finished beverage - 172.833

- Sucrose fatty acid esters REG, GMP, For use as emulsifier, texturizer, and component of fruit ctgs in chewing gum, confections, frostings, surimi-based seafood products, coffee and tea beverages See 172.859 for specifications
- Sucrose oligoesters EMUL/STAB, REG, Used in chocolate and butter-substitute spreads at a level not to exceed 2.0% 172.869
- Strawberry aldehyde (C-16 aldehyde) SY/FL, GRAS, X-ref wi 3-Methyl-3-phenyl glycidic acid ethyl ester 182.60
- Sugar beet extract flavor base FLAV, REG, GMP, In foods 172.585
- Sulfabromomethazine VET, REG, 0.1 ppm As residue in uncooked edible tissues of cattle 556.620; In milk do; Uses: As bolus 520.2170
 Sulfabromomethazine VET, REG, 0.1 ppm As residue in uncooked edible tissues of cattle 556.620; In milk do; Uses: As bolus 520.2170
- Sulfachloropyrazine -VET, REG, ZERO Residue in uncooked edible chicken tissue 556.625; Use: In drinking water of chickens 520.2184
- Sulfachlorpyridazine VET, REG, 0.1 ppm In uncooked edible tissue of calves & swine as residue 556.630; Uses 520.2200, 522.2200 (Oral Dosage Forms)
- Sulfadimethoxine -VET/FEED, REG, 0.1 ppm In uncooked edible tissues & by-prods of cattle, chickens, turkeys, and ducks as residue 556.640; 0.01 ppm In milk as residue 556.640; Uses & other info Drinking water, tablets, suspension 520.2220: As injection 522.2220
- Sulfadimethoxine + Ormetoprim FEED, REG, Sulfa 0.1 ppm neg residue Residues in uncooked edible tissues of chickens, turkeys, cattle, ducks, salmonids and catfish -556.640; Sulfa 0.01 ppm neg residue Residue in milk -556.640; Ormet 0.1 ppm neg residue Residue in edible tissues of chickens, turkeys, ducks, salmonids and catfish -556.490; Uses: Chicken, turkey, duck and fish (salmonids/catfish) feeds 558.575
- Sulfaethoxypyridazine FEED/VET, REG, 0.1 ppm -Residue in edible tissues of cattle 556.650; ZERO -Residues in milk and uncooked edible tissue of swine -556.650; Use: Drinking water of cattle & swine & as tablets - 522.2240; Injection - 522.2240; Use: Feeds - 558.579
- Sulfamerazine (N-[4-methyl-2-pyrimidinyl]sulfanilamide) FEED, REG, ZERO In edible tissues of trout as residue 556.660; Use if fish feed 558.582
- Sulfamethazine -VET, REG, Use: As tablet or bolus in cattle 520.2260a; 0.1 ppm As residue in uncooked edible tissues of cattle, swine, turkeys, chickens - 556.670
- Sulfamethazine a) (w/chlortetracycline & penicillin) b) (w/tylosin) VET/FEED, REG, 0.1 ppm In uncooked edible tissues of chickens, turkeys, cattle & swine 556.670; Use in swine feeds 558.145 (CTC & Pen) and 558.630 (Tylosin); Use in dosage forms 520.2260
- Sulfamethazine sodium -VET, REG, 0.1 ppm In uncooked edible tissue of chickens, turkeys, cattle & swine 556.670;Use: In drinking water 520.2661
- Sulfanitran (Acetyl[p-nitrophenyl]sulfanilamide) (w/alk-lomide) FEED/VET, REG, ZERO Residue in edible tissues & by-prods of chickens - 556.680; Feed uses; 558.376; 558.530; 558.376; Other: Drinking water -520.2320
- Sulfaquinoxaline FEED, REG, Use: Feed for chickens, turkeys, & rabbits 558.586; Dosage forms: In drinking water for chickens, turkeys, & cattle 520.2325a; In drench for cattle 520.2325b
- Sulfated butyl oleate MISC, REG, < 2% by weight in aqueous emulsion To dehydrate grapes to raisins -172.270
- Sulfathiazole (Combined w/Chlortetracycline and Penicillin) FEED, REG, 0.1 ppm neg residue In uncooked edible tissues of swine
 556.690; Uses in swine feeds 558.155
- Sulfiting agents PRES, GRAS, GMP, X-ref wi individual sulfiting agents 182.3616, 182.3637, 182.3739, 182.3766, 182.3798, 182.3862
 Sulfomyxin (N-sulfomethylpolymyxin B-Sodium salt) -VET, REG, ZERO In edible tissues of chickens & turkeys 556.700;Use 522.2340
- Sulfonated lignin, primarily as calcium & sodium salts SP/ADJ, REG, GMP, X-ref Calcium lignosulfonate -573.600; < 4% of finished pellets, of flake grain or fin feed Pelleting aid, binding aid, of flake grain, source of metabolizable energy in finished feed; < 11% molasses -Surfactant in molasses used in feeds
- Sulfonated 9-octadecanoic acid SANI, REG, 156-312 ppm Comp of sanitizing sin Followed by adequate draining 178.1010
- Sulfonated oleic acid, Na salt SANI, REG, GMP, Comp of sanitizing sin Followed by adequate draining 178.1010
- Sulfur dioxide PRES, GRAS/FS, Not in meats or in foods recognized as a source of Vitamin B1, etc. (See REG) 182.3862; BL, REG, < 0.05% Food starch modifier -172.892
- Sulfuric acid MISC, GRAS, GMP 184.1095; In animal feeds -582.1095; REG, GMP, Food starch modifier -172.892; REG, Manufacture of modified hop extract -172.560; REG, Manufacture of sodium methyl sulfate -173.385; SANI, REG, GMP, Comp of sanitizing sln -Followed by adequate drainage - 178.1010
- Synthetic fatty alcohols MISC, REG, GMP, See Fatty Alcohols, synthetic 172.864
- Synthetic flavoring substances SY/FL, REG, GMP, See 172.515 for listing and adjuvants
- Synthetic glycerin MISC, REG, GMP, In food 172.866 for specs
- Synthetic isoparaffinic petroleum hydrocarbons -MISC, REG, GMP 172.882
- Synthetic paraffin & succinic derivatives CTG, REG, GMP, Ctg on fresh citrus, muskmelons, and sweet potatoes -172.275

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- Tagetes (marigold) oil FL/ADJ, REG, GMP, As oil only -172.510
- Talc GRAS 182.2437 (magnesium silicate)
- Tall oil rosin, glycerol ester of MISC, REG, GMP, Softener for chewing gum 172.615
- Tallow alcohol, hydrogenated AF, REG, GMP, Comp of defoaming agent 173.340
- Tallow, fatty acids MISC, REG, GMP, In foods 172.860
- Tallow, hydrogenated, oxidized or sulfated AF, REG, GMP, X-ref Comp of defoaming agent 173.340
- Tamarind ESO, GRAS 182.20
- Tangerine ESO, GRAS 182.20
- Tannic acid ESO, GRAS; NAT/FL/ADJ, GRAS, See REG, < .01% Baked Goods & Baking Mixes; < .015% Alc bevs.; < .005% Nonalc bevs.; < .04% Froz dairy desserts & soft candy; 0.013% Hard Candy; < 0.001% Meat prods -184.1097; REG, In rendered animal fat See 9 CFR 318.7
- Tannin (incl quebracho extract) BC, REG, GMP, Boiler water additive 173.310
- Tansy FL/ADJ, REG, GMP, In alc bevs only; Finished bev thujone free 172.510



- Tarragon SP/ESO, GRAS 182.10, 182.20
- Tartaric acid MISC, GRAS/FS; Art Sw Fruit Jellies, Pres, and Jams 150.141, 150.161; Acidified Skim Milk -131.144; GRAS, GMP 184.1099; In animal feeds -582.1099
- Taurine FEED, REG, < 0.054% of the feed Nutritional supplement in feed of growing chickens 573.980
- Tea ESO, GRAS 182.20
- Technical white mineral oil MISC, REG, < 3.0% In mineral supplements for animals; < 0.06% In total ration of feed or feed concentrates 573.680. Specs 172.878; 178.3620
- Terpene resin (Beta-pinene polymer) MISC, REG, < 0.07% of weight of capsule Moisture barrier on soft gelatin capsules; < 7.0% of weight of powder Moisture barrier on powders of ascorbic acid or its salts 172.280
- Terpene resin (synthetic polymers of alpha-pinene, beta-pinene, and/or dipentene & natural polymers of alpha-pinene) -MISC, REG, GMP, Comp of chewing gum bases - 172.615
- Testosterone propionate -VET, REG, 1.3 ppb As residues in liver of cattle (heifers) 556.710; 1.9 ppb As residues in kidney of cattle (heifers) do; 2.6 ppb As residues in fat of cattle (heifers); 0.64 ppb As residues in muscle of cattle (heifers) do
- Tetracycline VET, REG, 0.25 ppm In uncooked tissues of calves, sheep, swine, chicken & turkeys 556.720;
- Tetraethylenepentamine crosslinked with epichlorohydrin REG, Comp of ion-exchange resins 173.25
- alpha-[p-(1,1,3,3-Tetramethylbutyl)phenyi]-omega-hydroxypoly(oxyethylene) PEST, REG, GMP Adjuvant for pesticide use -172.710
- Tetrasodium pyrophosphate SEQ, GRAS/FS, Cheeses and Rel Cheese Prods Part 133; Ice Cream Part 135; BC, REG, Comp of boiler water additive - 173.310; MISC, REG, < 0.3 ppm in flume water - Used in flume water for washing sugar beets prior to slicing operation -173.315
- Tetrasodium ethylenediaminetetracetate MISC, REG, < 0.1 ppm in flume water Used in flume water for washing sugar beets prior to slicing operation - 173.315
- TBHQ (tertiary butylhydroquinone) AOX, REG, < 0.02% of fat or oil Used alone or in comb wi BHA and/or BHT -Total antioxidants in food except standardized foods which do not list for such use - 172.185
- THBP (2,4,5-trihydroxybutyrophenone) AOX, REG, < 0.02% of fat or oil Used alone or in comb wi other permitted antioxidants -Total antioxidants, in foods except standardized foods which do not list for such use - 172.190
- Thiamine hydrochloride or mononitrate NUTR/DS, GRAS/FS, Cereal Flours Part 137; Macaroni/Noodle Prods Part 139; Bakery Prods - Part 136; 184.1875/1878, 182.5875/5878
- Thiabendazole FEED/VET, REG, 0.1 ppm neg residue Residue in edible tissues of cattle, goats, sheep and swine 556.730; 0.05 ppm neg residue Residue in milk -556.730; Use: As dosage forms/block 520.2380; As feed for cattle, goats, sheep, swine & pheasants 558.615
- Thiodipropionic acid AOX, GRAS, GMP, < 0.02% of fat or oil Total antioxidants in food 182.3109; PS, AOX, Migr from food-pkg material (addition of < 0.005% to food) -181.24
- Thiourea AOX, BAN, BANNED PRIOR TO FAA USE ILLEGAL 189.190
- Thistle, blessed (holy thistle) FL/ADJ, REG, GMP, In alc bevs only 172.510
- Threonine (L form only) NUTR/DS, REG 172.320
- Thyme, White Thyme SP/ESO, GRAS 182.10, 182.20
- Thyme, wild or creeping SP/FLAV/ESO, GRAS 182.10, 182.20
- Thymol iodide DS, GRAS, In animal feed as source of trace mineral 582.80
- Thymus capitatus (Spanish origanum) FL/ADJ, REG, GMP, In conjunction w/flavors 172.510
- Tiamulin FEED, REG, 0.4 ppm Residue in swine liver -556.738; Use: Drinking Water 520.2455; Use: Medicated Feed 558.600
- Tocopherols PRES, GRAS, GMP 182.3890, 184.1890; DS/NUTR, GRAS, GMP 182.8890
- Tocopherol acetate DS/NUTR, GRAS, GMP 182.5892, 182.8892
- Tolu, Balsam, extract ands gum FL/ADJ, REG, GMP, In conjunction w/flavors 172.510
- Tonka extract SY/FL, BAN See "Coumarin" 189.130
- Torula yeast, dried (Candida utilis) FLAV, REG, folic acid <0.04 mg/g yeast (approx 0.008 mg/g pteroyglutamic acid/g yeast) In food, X-ref Dried Yeasts 172.896
- Tragacanth (gum tragacanth) STAB, GRAS/FS, Cheeses and Rel Cheese Prods Part 133; Froz Desserts Part 135; Food Dress and Flavorings Part 169; Art Sw Fruit Jellies, Pres, and Jams 150.141, 150.161; GRAS -184.1351
- Trenbolone Acetate VET, REG, 100 ppb As residues in uncooked liver tissues of cattle 556.739; 300 ppb As residues in uncooked kidney tissues of cattle - do; 400 ppb - As residues in uncooked fat tissues of cattle - do; 500 ppb - As residues in uncooked muscle tissues of cattle - do; Use: As implant in cattle - 522.2476
- Trenbolone Acetate & Estradiol VET, REG, Use: As an implant in feedlot cattle (steers) 522.2477; As residues in cattle See 556.739 (Trenbolone Acetate) and 556.240 (Estradiol)
- Triacetin (glyceryl triacetate or 1,2,3-propanetriol triacetate) MISC, GRAS, GMP 184.1901
- Tricalcium phosphate MISC/DS, GRAS/FS, < 2% by wt -Vanilla Powder 169.179; Cereal Prods Part 137
- Tricalcium silicate AC, GRAS, GMP, 2% In table salt -182.2906
- Trichloroethylene SOLV, REG, 25 ppm (0.0025%) -Decaffeinated ground coffee 173.290; 10 ppm (0.001%) -Decaffeinated soluble (instant) coffee extract - 173.290; 30 ppm (0.003%) provided that if residues of other chlorinated solvents are also present, total residues in spice oleoresins < 30 ppm (0.003%) - Spice oleoresins - 173.290
- Trichloroisocyanuric acid SANI, REG, < 100 ppm avail halogen Followed by adequate drainage 178.1010
- Trichloromelamine SANI, REG, GMP, See REG -Followed adequate drainage 178.1010
- Triethanolamine MISC, REG, < 2 ppm in flume water -Used in flume water for washing sugar beets prior to slicing operation 173.315
- Triethyl citrate MISC, GRAS, 0.25% In dried egg whites -182.1911
- Triethylenetetramine cross-linked with epichlorohydrin REG, Comp of ion-exchange resins 173.25
- Triflouromethane sulfonic acid CATALYST, REG, < 0.2% of the reaction mixture to catalyze the directed esterification, <0.2 ppm fluoride as residue in product In prod of cocoa butter substitute 173.395
- Trifluoromethane sulfonic acid -MISC, REG -173.395
- 2,4,5-Trihydroxybutyrophenone (THBP) AOX, REG, < 0.02% of fat or oil Total antioxidants, in foods except standardized foods



which do not list for such use - 172.190

- Trimethylamine MISC, REG 173.20
- Trisodium nitrilotriacetate BC, REG, < 5 ppm in boiler feedwater Not for steam contacting milk or milk prods -173.310
- Trisodium phosphate EMUL, GRAS/FS, < 3% by weight of cheese Cheese Part 133; MISC, FS, Art Sw Fruik Jellies, Pres, and Jams 150.141, 150.161
- Triticum (see dog grass) ESO, GRAS 182.20
- Tryptophan (L-form only) NUTR/DS, REG 172.320
- Tuberose ESO, GRAS 182.20
- Turmeric SP/ESO, GRAS, Not permitted in standardized mayonnaise (169.140) & salad dressing (169.150) 182.20
- Tunu MISC, REG, Comp of chewing gum base 172.615
- Turpentine FL/ADJ, REG, GMP, In conjunction w/flavors -172.510
- Tylosin FEED/VET, REG, 0.05 ppm Residue in milk -556.740; 0.2 ppm Residue in edible tissues of poultry, cattle & swine do; Residues in eggs - do; Use: Drinking water - 520.2640; As Injection - 522.2640; For cattle, chicken, & swine feed uses see: 558.55; 558.58; 558.274; 558.625; 558.630; 558.680
- Tylosin & Sulfamethazine FEED, REG, 0.2 ppm Use in swine feeds 558.630; Residues (Tylosin) in edible tissue of swine 556.740;
 0.1 ppm Residues (Sulfamethazine) in edible tissues of swine 556.740
- Tyrosine (L-form only) NUTR/DS, REG 172.320
- U
- Urea GRAS, GMP, As formulation/fermentation aid in yeast -raised bakery prods, alc bevs, and gelatin prods -184.1923
- Urease enzyme from Lactobacillius fermentum MISC, GRAS, To inhibit urethane formation in wine 184.1924

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- Valerian rhizome & roots FL/ADJ, REG, GMP, In conjunction w/flavors 172.510
- Valeric acid MISC, REG, < 1% aliphatic acids In lye peeling soln for fruits & vegs 173.315
- Valine (L-form only) NUTR/DS, REG 172.320
- Vanilla FLAV, GRAS/FS Cacao Prods Part 163; Food Flavorings Part 169; SP/ESO, GRAS 182. 10, 182.20
- Vanillin SYN/FL, GRAS/FS Cacao Prods Part 163; Food Flavorings Part 169; GRAS 182.60; Migr to food from paper and paperboard prods 182.90
- Vegetable oils, brominated FL/ADJ, INTERIM/REG, < 15 ppm In fruit flavored bevs where not prohibited by Standards 180.30
- Veronica FL/ADJ, REG, GMP, In alc bevs only 172.510
- Vervain, European FL/ADJ, REG, GMP, In alc bevs only -172.510
- Verxite flakes FEED, REG, < 1% Anticaking or blending agent in ruminant feeds 573.1000
- Verxite granules (Exfoliated hydrobiotite) FEED, REG, < 5% Nonnutritive bulking agent in poultry feed -573.1000; Anticaking, blending agent, pelleting aid, or non-nutritive carrier of nutrients in poultry, swine, & ruminant feed do; < 1.5% Anticaking, blending agent, etc. in dog food 573.1000
- Verxite grits FEED, REG, < 1% Partial roughage replacement in ruminant feeds 573.1000
- Vetiver FL/ADJ, REG, GMP, In alc bevs only 172.510
- Vinyl acetate MISC, REG, Modifier for food starch -172.892
- Vinyl chloride-vinylidene chloride copolymer CTG, REG, GMP, Comp of ctg on fresh citrus fruits 172.210
- Violet flowers & leaves ESO, GRAS 182.20
- Violet leaves absolute ESO, GRAS 182.20
- Violet, Swiss FL/ADJ, REG, GMP, In conjunction w/flavors 172.510
- Virginiamycin FEED, REG, 0.4 ppm Residue in edible tissues, kidney, skin, & fat of swine 556.750; 0.3 ppm Residue in swine liver 556.750; 0.1ppm Residue in swine muscle 556.750; Use in swin & chicken feeds 558.635
- Vitamin A NUTR/DS, GRAS, GMP 182.5930, 184.1930; GRAS/FS, Milk and Cream Part 131; Cheeses and Rel Cheese Prods Part 133; Mellorine - 135.130; Margarine
- Vitamin A acetate NUTR/DS, GRAS, GMP 182.5933, 184.1930
- Vitamin A palmitate NUTR/DS, GRAS, GMP 182.5936, 184.1930
- Vitamin B NUTR/DS, GRAS
- Vitamin B12 NUTR/DS, GRAS, GMP 182.5945, 184.1945
- Vitamin C See Ascorbic Acid
- Vitamin D NUTR/DS, GRAS, Nutrient supplement -182.5950, 182.5953, 184.1950; > 350 IU/100 g, Cereal Prods Part 137; 90 IU/100g, Macaroni and Noodle Prods Part 139; 42 IU/100g, Milk Part 131; 89 IU/100g Milk prods
- Vitamin D2 NUTR, REG, Crystalline vitamin D2 as a nutrient supplement at levels not to exceed 50 International Units (IU) per 100
 grams (g) of soy beverages, 89 IU per 100 g of soy beverage products, 330 IU per 100 g of soy-based butter substitute spreads, and 270
 IU per 100 g of soy-based cheese substitutes and soy-based cheese substitute products.-172.379
- Vitamin D3 NUTR, REG, Nutrient supplement in calcium-fortified fruit juices and fruit juice drinks at levels not to exceed 100 IU per 240 mL, special dietary soy-protein based meal replacement beverages at = 140 IU per 240mL, special dietary meal replacement bars or other type bars at = 100 IU per 40g, cheese and cheese products at = 81 IU per 30g, excluding cottage cheese, ricotta cheese, and hard grating cheeses 172.380
- Volatile Fatty Acids: Isobutyric Acid, Isovaleric Acid, methylbutyric Acid, m-Valeric Acid (As calcium or ammonium salts) -ADD, REG, 48-54% as ammonia salts - Use in dairy cattle feeds as source of energy - 573.914; 58-72% as calcium salts
- W
- Walnut husks, leaves & green nuts FL/ADJ, REG, GMP, In conjunction w/flavors 172.510
- Wax, paraffin (Fischer-Tropsch) MISC, REG, GMP, Comp of chewing gum base 172.615



- Wax, paraffin CTG, FS, Surface ctg for certain cheeses -Part 133
- Wheat Starch GRAS, Migr from cotton and cotton fabrics used in dry food pkg 182.70
- Wheat gluten, vital GRAS, GMP 184.1322
- Whey, fermented, ammoniated, condensed
 FA, REG, > 30% of dietary crude protein Source of protein & non-protein nitrogen for cattle - 573.450
- Whey, reduced lactose whey, reduced minerals whey, whey protein concentrate -GRAS -184.1979, 184.1979a-c; GRAS/FS, Froz Desserts - Part 135
- White Mineral Oil See Mineral Oil, White 172.878
- Whole fish protein concentrate DS, REG, See REG, < 20 g/ day when consumed regularly by children up to 8 yrs of age For household use only - package size < 1 lb net wt - 172.385; < 8 ppm total fluoride content of finished food - When used in manufactured food - 172.385
- Wild Cherry bark ESO, GRAS 182.20
- Wood rosin CTG, REG, GMP, X-ref wi Rosin, wood, For fresh citrus fruits 172.210
- Woodruff, sweet FL/ADJ, REG, GMP, In alc bevs only -172.510

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- Xanthan gum EMUL, REG, GMP, In foods which standards do not preclude use 172.695; FS, Food Dress Part 169; Cheeses and Rel Cheese Prods - Part 133; 0.25% max use level liquid feeds for ruminants - In animal feeds (stabilizer, thickener, suspending agent) -573.1010; 0.1% in calf milk replacer (as fed)
- Xylitol MISC, REG, Amt used is not > that required to produce its intended effect May be safely used in foods for special dietary uses -172.395

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- Yarrow FL/ADJ, REG, GMP, In bevs only, finished bevs Thujone free 172.510
- Yeast (Bakers, Saccharomyces cerevisiae) FS, Egg Prods Part 160
- Yeast, dried DS, REG In food provided total folic acid content < 0.04 mg/g of yeast 172.896; NUTR, GRAS/FS, < 1.5% by wt of finished food Enriched Corn Grits, Enriched Corn Meal 137.235, 137.260; Macaroni and Noodle Prods Part 139</p>
- Yeast, dried, inactive FLAV, REG/FS, < 0.25 parts for each 100 parts by weight of flour used Bakery Prods Part 136; Macaroni and Noodle Prods Part 139; DS, REG See Yeast, dried 172.896
- Yeast, dried, irradiated NUTR, GRAS/DS, Enriched Farina as source of Vitamin D 137.305
- Yeast extract (Bakers) FL/ADJ, GRAS, < 5% in food, See Specs 184.1983
- Yeast, malt sprout extract FL/ADJ, REG, GMP, As a flavor enhancer 172.590
- Yeast, torula, dried DS, REG, GMP In food provided total folic acid content < 0.04 mg/g of yeast 172.896; X-Ref wi Torula Yeast
- Yellow prussiate of soda (sodium ferrocyanide decahydrate) See Prussiate of Soda, Yellow
- Yerba santa FL/ADJ, REG, GMP, In conjunction w/flavors -172.510
- Ylang-ylang ESO, GRAS 182.20
- Yucca, Joshua-tree FL/ADJ, REG, GMP, In conjunction w/flavors 172.510
- Yucca, Mohave FL/ADJ, REG, GMP, In conjunction w/flavors 172.510

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- Zein, powder GRAS, GMP 184.1984
- Zedoary SP, GRAS 182.10
- Zedoary bark ESO, GRAS 182.20
- Zeranoi (Zearaianoi) -VET, REG, ZERO Residues in uncooked edible tissues of sheep 556.760; 150 ppb As residues in uncooked edible muscle tissue of cattle -556.760; 300 ppb - As residues in uncooked liver of cattle do; 450 ppb - As residues in uncooked kidney of cattle - do; 600 ppb - As residues in uncooked fat of cattle - do; Use as implant - 522.2680
- Zinc (acetate, carbonate, chloride, oxide, sulfate) NUTR, GRAS, As nutritional dietary supplement in animal feed 582.80
- Zinc bacitracin FEED, REG, See Bacitracin
- Zinc chloride NUTR/DS, GRAS, GMP 182.5985, 182.8985
- Zinc gluconate NUTR/DS, GRAS, GMP 182.5988, 182.8988
- Zinc methionine sulfate NUTR, REG, Tablets See 172.399 for specs
- Zinc oxide NUTR/DS, GRAS, GMP 182.5991, 182.8991
- Zinc stearate NUTR/DS, GRAS, GMP, Free from chick edema factor 182.5994, 182.8994
- Zinc sulfate NUTR/DS, GRAS, GMP 182.5997, 182.8997; GRAS, Migr to food from paper and paperboard prods 182.90
- Zoalene FEED, REG, 2 ppm Residues in uncooked fat of chickens 556.770; 3 ppm Residues in uncooked muscle meat of chickens do; 3 ppm Residues in uncooked muscle meat & liver of turkeys do; 6 ppm Residues in uncooked liver & kidneys of chickens do; Use in chicken & turkey feeds 558.60; 558.62; 558.78; 558.128; 558.248; 558.274; 558.450; 558.530; 558.680

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