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Title 21 —Food and Drugs
Chapter I —Food and Drug Administration, Department of Health and Human Services
Subchapter B —Food for Human Consumption
Part 175 —Indirect Food Additives: Adhesives and Components of Coatings
Subpart B —Substances for Use Only as Components of Adhesives

Authority: 21 U.S.C. 321, 342, 348, 379e.
Source: 42 FR 14534, Mar. 15, 1977, unless otherwise noted.

Editorial Note: Nomenclature changes to part 175 appear at 61 FR 14482, Apr. 2, 1996; 66 FR 56035, Nov. 6, 2001; and 70 FR 72074, Dec. 1, 2005.

§ 175.105 Adhesives.

(a) Adhesives may be safely used as components of articles intended for use in packaging, transporting, or holding food in accordance with the following prescribed conditions:

(1) The adhesive is prepared from one or more of the optional substances named in paragraph (c) of this section, subject to any prescribed limitations.

(2) The adhesive is either separated from the food by a functional barrier or used subject to the following additional limitations:

(i) ***In dry foods.*** The quantity of adhesive that contacts packaged dry food shall not exceed the limits of good manufacturing practice.

(ii) ***In fatty and aqueous foods.***

(*a*) The quantity of adhesive that contacts packaged fatty and aqueous foods shall not exceed the trace amount at seams and at the edge exposure between packaging laminates that may occur within the limits of good manufacturing practice.

(*b*) Under normal conditions of use the packaging seams or laminates will remain firmly bonded without visible separation.

(b) To assure safe usage of adhesives, the label of the finished adhesive container shall bear the statement "food-packaging adhesive".

(c) Subject to any limitation prescribed in this section and in any other regulation promulgated under section 409 of the Act which prescribes safe conditions of use for substances that may be employed as constituents of adhesives, the optional substances used in the formulation of adhesives may include the following:

(1) Substances generally recognized as safe for use in food or food packaging.

(2) Substances permitted for use in adhesives by prior sanction or approval and employed under the specific conditions of use prescribed by such sanction or approval.

(3) Flavoring substances permitted for use in food by regulations in this part, provided that such flavoring substances are volatilized from the adhesives during the packaging fabrication process.

(4) Color additives approved for use in food.

(5) Substances permitted for use in adhesives by other regulations in this subchapter and substances named in this subparagraph: *Provided, however,* That any substance named in this paragraph and covered by a specific regulation in this subchapter, must meet any specifications in such regulation.

Substances	Limitations
Abietic acid	
Acetone	
Acetone-formaldehyde condensate (CAS Reg. No. 25619-09-4)	
Acetone-urea-formaldehyde resin	
N-Acetyl ethanolamine	
Acetyl tributyl citrate	
Acetyl triethyl citrate	
2-Acrylamido-2-methyl-propanesulfonic acid, homopolymer, sodium salt (CAS Reg. No. 35641-59-9)	
Albumin, blood	
(2-Alkenyl) succinic anhydrides in which the alkenyl groups are derived from olefins which contain not less than 78 percent C_{30} and higher groups (CAS Reg. No. 70983-55-0)	
4-[2-[2-2-(Alkoxy (C_{12}-C_{15}) ethoxy) ethoxy]ethyl] disodium sulfosuccinate	
1-Alkyl (C_6-C_{18}) amino-3-amino-propane monoacetate	
Alkylated (C_4 and/or C_8) phenols	
Alkyl (C_7-$C1_2$) benzene	
Alkyl (C_{10}-C_{20}) dimethylbenzyl ammonium chloride	
n-Alkyl(C_{12}, C_{14}, C_{16}, or C_{18}) dimethyl (ethylbenzyl) ammonium cyclohexylsulfamate	For use as preservative only.
Alkyl ketene dimers as described in § 176.120 of this chapter	
Alkyl (C_7-C_{12}) naphthalene	
alpha Olefin sulfonate [alkyl group is in the range of C_{10}-C_{18} with not less than 50 percent C_{14}-C_{16}], ammonium, calcium, magnesium, potassium, and sodium salts	
2-[(2-aminoethyl)amino]ethanol (CAS Reg. No. 111-41-1)	
3-Aminopropanediol	For use only in the preparation of polyurethane resins.
Aluminum	
Aluminum acetate	
Aluminum di(2-ethylhexoate)	
Aluminum potassium silicate	
N-β-Aminoethyl-*gamma*-aminopropyl trimethoxysilane	
3-(Aminomethyl)-3,5,5-trimethylcyclohexylamine	
Aminomethylpropanol	

Substances	Limitations
Ammonium benzoate	For use as preservative only.
Ammonium bifluoride	For use only as bonding agent for aluminum foil, stabilizer or preservative. Total fluoride from all sources not to exceed 1 percent by weight of the finished adhesive.
Ammonium borate	
Ammonium citrate	
Ammonium persulfate	
Ammonium polyacrylate	
Ammonium potassium hydrogen phosphate	
Ammonium silico-fluoride	For use only as bonding agent for aluminum foil, stabilizer, or preservative. Total fluoride from all sources not to exceed 1 percent by weight of the finished adhesive.
Ammonium sulfamate	
Ammonium thiocyanate	
Ammonium thiosulfate	
Amyl acetate	
Anhydroenneaheptitol	
Animal glue as described in § 178.3120 of this chapter	
2-Anthraquinone sulfonic acid, sodium salt	For use only as polymerization-control agent.
Antimony oxide	
Asbestos	
Asphalt, paraffinic and naphthenic	
Azelaic acid	

Substances	Limitations
Azo-*bis*-isobutyronitrile	
Balata rubber	
Barium acetate	
Barium peroxide	
Barium sulfate	
Bentonite	
Benzene (benzol)	
1,4-Benzenedicarboxylic acid, bis[2-(1,1-dimethylethyl)-6-[[3-(1,1-dimethylethyl)-2-hydroxy-5-methylphenyl]methyl]-4-methyl-phenyl]ester (CAS Reg. No. 57569-40-1)	For use as a stabilizer.
1,2-Benzisothiazolin-3-one (CAS Registry No. 2634-33-5)	For use as preservative only.
Benzothiazyldisulfide	
p-Benzoxyphenol	For use as preservative only.
Benzoyl peroxide	
Benzyl alcohol	
Benzyl benzoate	
Benzyl bromoacetate	For use as preservative only.
p-Benzyloxyphenol	Do.
BHA (butylated hydroxyanisole)	
BHT (butylated hydroxytoluene)	
Bicyclo[2.2.1]hept-2-ene-6-methyl acrylate	
2-Biphenyl diphenyl phosphate	
Bis(benzoate-*O*)(2-propanolato)aluminum (CAS Reg. No. 105442-85-1)	For use only as a reactant in the preparation of polyester resins.
1,2-Bis(3,5-di-*tert*-butyl-4-hydroxyhydrocinnamoyl)hy-drazine (CAS Reg. No. 32687-78-8)	For use at a level not to exceed 2 percent by weight of the adhesive.
1,3-Bis(2-benzothiazolylmercaptomethyl) urea	
4,4'-Bis(α,α-dimethylbenzyl)diphenylamine	
2,6-Bis(1,1-dimethylethyl)-4-(1-methylpropyl)phenol (CAS Reg. No. 17540-75-9)	For use as an antioxidant and/or stabilizer only.
2,6-Bis (1-methylheptadecyl)-*p*-cresol	
4-[[4, 6-Bis(octylthio)6-Bis(octylthio)6-Bis(octylthio)-*s*-triazin-2-yl]amino]-2,6-di-*tert*-butylphenol	

Substances	Limitations
(CAS Reg. No. 991-84-4)	
Bis(tri-*n*-butyltin) oxide	For use as preservative only.
Bis(trichloromethyl)sulfone C.A. Registry No. 3064-70-8	Do.
Borax	
Boric acid	
2-Bromo-2-nitro-1, 3-propanediol (CAS Reg. No. 52-51-7)	For use only as an antibacterial preservative.
Butanedioic acid, sulfo-1,4-di-(C_9-C_{11} alkyl) ester, ammonium salt (also known as butanedioic acid, sulfo-1,4-diisodecyl ester, ammonium salt [CAS Reg. No. 144093-88-9]).	For use as a surface active agent in adhesives.
1,3-Butanediol	
1,4-Butanediol	
1,4-Butanediol modified with adipic acid	
Butoxy polyethylene polyproplyene glycol (molecular weight 900-4,200)	
Butyl acetate	
Butyl acetyl ricinoleate	
Butyl alcohol	
Butylated reaction product of *p*-cresol and dicyclopentadiene	As identified in § 178.2010(b) of this chapter.
Butylated, styrenated cresols identified in § 178.2010(b) of this chapter	
Butyl benzoate	
1,3-Butylene glycoldiglycolic acid copolymer	
tert-Butyl hydroperoxide	
4,4'-Butylidenebis(6-*tert*-butyl-*m*-cresol)	
Butyl lactate	
p-*tert*-Butylphenyl salicylate	
p-*tert*-Butylpyrocatechol	For use only as polymerization-control agent.
Butyl ricinoleate	
Butyl rubber polymer	
Butyl stearate	
Butyl titanate, polymerized	
Butyraldehyde	
Calcium ethyl acetoacetate	
Calcium nitrate	
Calcium metasilicate	

Substances	Limitations
Camphor	
Camphor fatty acid esters	
Candelilla wax	
epsilon-Caprolactam-(ethylene-ethyl acrylate) graft polymer	
Carbon black, channel process	
Carbon disulfide-1,1'-methylenedipiperidine reaction product	
Carbon tetrachloride	
Carboxymethylcellulose	
Castor oil, polyoxyethylated (4-84 moles ethylene oxide)	
Cellulose acetate butyrate	
Cellulose acetate propionate	
Ceresin wax (ozocerite)	
Cetyl alcohol	
Chloracetamide	
Chloral hydrate	
Chlorinated liquid *n*-paraffins with chain lengths of C_{10}-C_{17}, containing 40-70 percent chlorine by weight	
Chlorinated pyridine mixture with active ingredients consisting of 2,3,5,6-tetrachloro-4-(methylsulfonyl) pyridine, 2,3,5,6-tetrachloro-4-(methylsulfinyl) pyridine and pentachloropyridine	For use as preservative only.
Chlorinated rubber polymer (natural rubber polymer containing approximately 67 percent chlorine)	
1-(3-Chloroallyl)-3,5,7-triaza-1-azoniaadamantane chloride	For use as preservative only.
Chlorobenzene	
4-Chloro-3,5-dimethylphenol (*p*-chloro-*m*-xylenol)	For use as preservative only.
4-Chloro-3-methylphenol	Do.
5-Chloro-2-methyl-4-isothiazolin-3-one (CAS Reg. No. 26172-55-4) and 2-methyl-4-isothiazolin-3-one (CAS Reg. No. 2682-20-4) mixture at a ratio of 3 parts to 1 part, manufactured from methyl-3-mercaptopropionate (CAS Reg. No. 2935-90-2). The mixture may contain magnesium nitrate (CAS Reg. No. 10377-60-3) at a concentration equivalent to the isothiazolone active ingredients (weight/weight)	For use only as an antimicrobial agent in polymer latex emulsions.
Chloroform	
Chloroprene	
Chromium caseinate	
Chromium nitrate	
Chromium potassium sulfate	
Cobaltous acetate	
Coconut fatty acid amine salt of tetrachlorophenol	For use as preservative only.

Substances	Limitations
Copal	
Copper 8-quinolinolate	For use as preservative only.
Coumarone-indene resin	
Cresyl diphenyl phosphate	
Cumene hydroperoxide	
Cyanoguanidine	
Cyclized rubber as identified in § 176.170(b)(2) of this chapter	
Cyclohexane	
1,4-Cyclohexanedimethanoldibenzoate (CAS Reg. No. 35541-81-2)	
Cyclohexanol	
Cyclohexanone resin	
Cyclohexanone-formaldehyde condensate	
N-Cyclohexyl *p*-toluene sulfonamide	
(η^5-Cyclopentadienyl)-(η^6-isopropylbenzene)iron(II) hexafluorophosphate (CAS Reg. No. 32760-80-8)	For use only as a photoinitiator.
Damar	
Defoaming agents as described in § 176.210 of this chapter	
Dehydroacetic acid	
Diacetone alcohol	
Diacetyl peroxide	
N,N'-Dialkoyl-4,4'-diaminodiphenylmethane mixtures where; the alkoyl groups are derived from marine fatty acids (C_{12}-C_{24})	
2,5-Di-*tert*-amylhydroquinone	
Diamines derived from dimerized vegetable oil acids	
Diaryl-*p*-phenylenediamine, where the aryl group may be phenyl, tolyl, or xylyl	
1,2-Dibromo-2,4-dicyanobutane (CAS Registry No. 3569-65-7)	For use as a preservative only.
2,2-Dibromo-3-nitrilopropionamide (CAS Reg. No. 10222-01-2).	For use as a preservative only.
2,5-Di-*tert*-butylhydroquinone	
Dibutyl maleate	
2,6-Di-*tert*-butyl-4-methylphenol	For use as preservative only.
Di(C_7, C_9-alkyl)adipate	
Dibutyl sebacate	
Dibutyltin dilaurate for use only as a catalyst for polyurethane resins	
1,2-Dichloroethylene (mixed isomers)	
Dicumyl peroxide	
Dicyclohexyl phthalate	

Substances	Limitations
Diethanolamine	
Diethanolamine condensed with animal or vegetable fatty acids	
Diethylamine	
Diethylene glycol	
Diethylene glycol adipic acid copolymer	
Diethylene glycol dibenzoate	
Diethylene glycol hydrogenated tallowate monoester	
Diethylene glycol laurate	
Diethylene glycol monobutyl ether	
Diethylene glycol monobutyl ether acetate	
Diethylene glycol monoethyl ether	
Diethylene glycol monoethyl ether acetate	
Diethylene glycol monomethyl ether	
Diethylene glycol monooleate	
Diethylene glycol monophenyl ether	
Diethylene glycol copolymer of adipic acid and phthalic anhydride	
Di(2-ethylhexyl) adipate	
Di(2-ethylhexyl)phthalate	
Diethyl oxalate	
Di(2-hydroxy-5-*tert*-butylphenyl) sulfide	
2,2'-Dihydroxy-5,5'-dichlorodiphenylmethane (dichlorophene)	
4,5-Dihydroxy-2-imidazolidinone	
4-(Diiodomethylsulfonyl) toluene CA Registry No.: 20018-09-01	For use as an antifungal preservative only.
Diisobutyl adipate	
Diisobutyl ketone	
Diisobutylphenoxyethoxyethyl dimethyl benzyl ammonium chloride	
Diisodecyl adipate	
Diisodecyl phthalate	
Diisopropylbenzene hydroperoxide	
N,N-Dimethylcyclohexylamine dibutyldithiocarbamate	
Dimethyl formamide	
Dimethyl hexynol	
2,2-Dimethyl-1,3-propanediol dibenzoate	
Dimethyl octynediol	
N-(1,1-dimethyl-3-oxobutyl) acrylamide	
3,5-Dimethyl-1,3,5,2*H*-tetrahydrothiadiazine-2-thione	For use as preservative only.
Di-β-naphthyl-*p*-phenylenediamine	

Substances	Limitations
4,6-Dinonyl-*o*-cresol	
Dinonylphenol	
Di-*n*-octyldecyl adipate	
Dioctyldiphenylamine	
Dioctylsebacate	
Dioxane	
Dipentaerythritol pentastearate	
Dipentamethylene-thiuram-tetrasulfide	
Dipentene	
Dipentene resins	
Dipentene-*beta*-pinene-styrene resins	
Dipentene-styrene resin (CAS Registry No. 64536-06-7)	
Diphenyl-2-ethylhexyl phosphate	
Diphenyl, hydrogen ated	
N,N'-Diphenyl-*p*-phenylenediamine	
1,3-Diphenyl-2-thiourea	
Dipropylene glycol	
Dipropylene glycol dibenzoate	
Dipropylene glycol monomethyl ether	
Dipropylene glycol copolymer of adipic acid and phthalic anhydride	
Disodium cyanodithioimidocarbonate	
Disodium 4-isodecyl sulfosuccinate (CAS Reg. No. 37294-49-8)	
N,N'-Distearoylethylenediamine	
Distearyl thiodipropionate	
3,5-Di-*tert*-butyl-4-hydroxyhydrocinnamic acid triester with 1,3,5-tris(2-hydroxyethyl)-*s*-triazine-2,4,6(1*H,* 3*H,* 5*H*)-trione	For use as antioxidant only.
4,4'-Dithiodimorpholine	
n-Dodecylmercaptan	
tert-Dodecylmercaptan	
Dodecylphenoxybenzene-disulfonic acid and/or its calcium, magnesium, and sodium salts	
Elemi gum	
Epichlorohydrin-4,4'-isopropylidenediphenol resin	
Epichlorohydrin-4,4'-*sec*-butylidenediphenol resin	
Epichlorohydrin-4,4'-isopropylidene-di-o-cresol resin	
Epichlorohydrin-phenolformaldehyde resin	
Erucamide (erucylamide)	
Ethanolamine	
Ethoxylated primary linear alcohols of greater than 10 percent ethylene oxide by weight having molecular weights of 390 to 7,000 (CAS Reg. No. 97953-22-5)	
Ethoxypropanol butyl ether	

Substances	Limitations
Ethyl alcohol (ethanol)	
5-Ethyl-1,3-diglycidyl-5-methylhydantoin (CAS Reg. No. 15336-82-0)	
Ethylene-acrylic acid-carbon monoxide copolymer (CAS Reg. No. 97756-27-9)	
Ethylene-acrylic acid copolymer, partial sodium salt containing no more than 20 percent acrylic acid by weight, and no more than 16 percent of the acrylic acid as the sodium salt (CAS Reg. No. 25750-82-7)	
Ethylenediamine	
Ethylenediaminetetra-acetic acid, calcium, ferric, potassium, or sodium salts, single or mixed	
Ethylene dichloride	
Ethylene glycol	
Ethylene glycol monobutyl ether	
Ethylene glycol monobutyl ether acetate	
Ethylene glycol monoethyl ether	
Ethylene glycol monoethyl ether acetate	
Ethylene glycol monoethyl ether ricinoleate	
Ethylene glycol monomethyl ether	
Ethylene glycol monophenyl ether	
Ethylene-carbon monoxide copolymer (CAS Reg. No. 25052-62-4) containing not more than 30 weight percent of the units derived from carbon monoxide	
Ethylene-maleic anhydride copolymer, ammonium or potassium salt	
Ethylene-methacrylic acid copolymer partial salts: Ammonium, calcium, magnesium, sodium, and/or zinc	
Ethylene-methacrylic acid-vinyl acetate copolymer partial salts: Ammonium, calcium, magnesium, sodium, and/or zinc	
Ethylene-octene-1 copolymers containing not less than 70 weight percent ethylene (CAS Reg. No. 26221-73-8)	
Ethylene-propylene-dicyclopentadiene copolymer rubber	
Ethylene, propylene, 1,4-hexadiene and 2,5-norbornadiene tetrapolymer	
Ethylene-vinyl acetate carbon monoxide terpolymer (CAS Registry No. 26337-35-9) containing not more than 15 weight percent of units derived from carbon monoxide	
2,2'-Ethylidenebis (4,6-di-*tert*-butylphenol) (CAS Reg. No. 35958-30-6)	
Ethyl-*p*-hydroxybenzoate	For use as preservative only.
Ethyl hydroxyethylcellulose	
Ethyl lactate	
2,2'-Ethylidenebis(4,6-di-*tert*-butylphenyl)fluorophosphonite (CAS Reg. No. 118337-09-0)	For use as an antioxidant and/or stabilizer only.
Ethyl-*p*-toluene sulfonamide	
Fats and oils derived from animal or vegetable sources, and the hydrogenated, sulfated, or sulfonated forms of such fats and oils	

Substances	Limitations
Fatty acids derived from animal or vegetable fats and oils; and salts of such acids, single or mixed, as follows:	
Aluminum	
Ammonium	
Calcium	
Magnesium	
Potassium	
Sodium	
Zinc	
Ferric chloride	
Fluosilicic acid (hydrofluosilicic acid)	For use only as bonding agent for aluminum foil, stabilizer, or preservative. Total fluoride from all sources not to exceed 1 percent by weight of the finished adhesive.
Formaldehyde	
Formaldehyde *o*- and *p*-toluene sulfonamide	
Formamide	
Fumaratochromium (III) nitrate	
Furfural	
Furfuryl alcohol	
Fumaric acid	
gamma-Aminopropyltrimethoxysilane (CAS Reg. No. 13822-56-5)	
Glutaraldehyde	
Glycerides, di- and monoesters	
Glycerol polyoxypropylene triol, minimum average molecular weight 250 (CAS Reg. No. 25791-96-2)	For use only in the preparation of polyester and polyurethane resins in adhesives.
Glyceryl borate (glycol boriborate resin)	
Glyceryl ester of damar, copal, elemi, and sandarac	
Glyceryl monobutyl ricinoleate	
Glyceryl monohydroxy stearate	

Substances	Limitations
Glyceryl monohydroxy tallowate	
Glyceryl polyoxypropylene triol (average molecular weight 1,000)	
Glyceryl tribenzoate	
Glycol diacetate	
Glyoxal	
Heptane	
Hexamethylenetetramine	
Hexane	
Hexanetriols	
Hexylene glycol	
Hydroabietyl alcohol	
Hydrocarbon resins (produced by polymerization of mixtures of mono- and di-unsaturated hydrocarbons of the aliphatic, alicyclic, and monobenzenoid type derived both from cracked petroleum and terpene stocks) (CAS Reg. No. 68239-99-6)	
Hydrocarbon resins (produced by the polymerization of styrene and *alpha*-methyl styrene), hydrogenated (CAS Reg. No. 68441-37-2)	
Hydrofluoric acid	For use only as bonding agent for aluminum foil, stabilizer, or preservative. Total fluoride from all sources not to exceed 1 percent by weight of the finished adhesive.
Hydrogen peroxide	
Hydrogenated dipentene resin (CAS Reg. No. 106168-39-2)	
Hydrogenated dipentene-styrene copolymer resin (CAS Reg. No. 106168-36-9)	
Hydrogenated-*beta*-pinene-*alpha*-pinene-dipentene copolymer resin (CAS Reg. No. 106168-37-0)	
a-Hydro-*omega*-hydroxypoly-(oxytetramethylene)	For use only in the preparation of polyurethane resins.
Hydroquinone	
Hydroquinone monobenzyl ether	
Hydroquinone monoethyl ether	
2(2'-Hydroxy-3',5' di-*tert*-amylphenyl) benzotriazole	
Hydroxyacetic acid	

Substances	Limitations
7-Hydroxycoumarin	
Hydroxyethylcellulose	
2-Hydroxy-1-[4-(2-hydroxyethoxy)phenyl]-2-methyl-1-propanone(CAS Reg. No. 106797-53-9)	For use only as a photoinitiator at a level not to exceed 5 percent by weight of the adhesive.
1-(2-Hydroxyethyl)-1-(4-chlorobutyl)-2 alkyl (C_6-C_{17}) imidazolinium chloride	
Hydroxyethyldiethylenetriamine	
β-Hydroxyethyl pyridinium 2-mercaptobenzothiazol	
Hydroxyethyl starch	
Hydroxyethylurea	
Hydroxylamine sulfate	
5-Hydroxymethoxymethyl-1-aza-3,7-dioxabicyclo[3.3.0]octane, 5-hydroxymethyl-1-aza-3,7-dioxabicyclo[3.3.0]octane, and 5-hydroxypoly-[methyleneoxy]methyl-1-aza-3,7-dioxabicyclo[3.3.0] octane mixture	For use only as an antibacterial preservative.
Hydroxypropyl methylcellulose	
2-(Hydroxymethyl)-2-methyl-1,3-propanediol tribenzoate	
2-Imidazolidinone	
3-Iodo-2-propynyl-N-butyl carbamate (CAS Reg. No. 55406-53-6)	For use only as an antifungal preservative.
Iodoform	For use only as polymerization-control agent.
Isoascorbic acid	
Isobutyl alcohol (isobutanol)	
Isobutylene-isoprene copolymer	
Isodecyl benzoate (CAS Reg. No. 131298-44-7)	
Isophorone	
Isopropanolamine (mono-, di-, tri-)	
Isopropyl acetate	
Isopropyl alcohol (isopropanol)	
Isopropyl-*m*- and *p*-cresol (thymol derived)	
4,4'-Isopropylidenediphenol	
4,4'-Isopropylidenediphenol, polybutylated mixture	For use as preservative only.
Isopropyl peroxydicarbonate	
p-Isopropoxy diphenylamine	
4,4'-Isopropylidene-bis(*p*-phenyleneoxy)-di-2-propanol	

Substances	Limitations
Itaconic acid	
Japan wax	
Kerosene	
Lauroyl peroxide	
Lauroyl sulfate salts:	
Ammonium	
Magnesium	
Potassium	
Sodium	
Lauryl alcohol	
Lauryl pyridinium 5-chloro-2-mercaptobenzothiazole	
Lignin calcium sulfonate	
Lignin sodium sulfonate	
Linoleamide (linoleic acid amide)	
Magnesium fluoride	For use only as bonding agent for aluminum foil, stabilizer, or preservative. Total fluoride from all sources not to exceed 1 percent by weight of the finished adhesives.
Magnesium glycerophosphate	
Maleic acid	
Maleic anhydride-diisobutylene copolymer, ammonium or sodium salt	
Manganese acetate	
Marine oil fatty acid soaps, hydrogenated	
Melamine	
Melamine-formaldehyde copolymer	
2-Mercaptobenzothiazole	
2-Mercaptobenzothiazole and dimethyl dithiocarbamic acid mixture, sodium salt	For use as preservative only.
2-Mercaptobenzothiazole, sodium or zinc salt	For use as preservative only.
Methacrylate-chromic chloride complex, ethyl or methyl ester	
p-Menthane hydroperoxide	
Methyl acetate	
Methyl acetyl ricinoleate	

Substances	Limitations
Methyl alcohol (methanol)	
Methylcellulose	
Methylene chloride	
4,4'-Methylenebis(2,6-di-*tert*-butylphenol)	
2,2-Methylenebis (4-ethyl-6-*tert*-butylphenol)	
2,2-Methylenebis (4-methyl-6-nonylphenol)	
2,2-Methylenebis (4-methyl-6-*tert*-butylphenol)	
Methyl ethyl ketone	
Methyl ethyl ketone-formaldehyde condensate	
2-Methylhexane	
1-Methyl-2-hydroxy-4-isopropyl benzene	
Methyl isobutyl ketone	
Methyl oleate	
Methyl oleate-palmitate mixture	
Methyl ricinoleate	
Methyl salicylate	
a-Methylstyrene-vinyltoluene copolymer resins (molar ratio 1 *a* methylstyrene to 3 vinyltoluene)	
Methyl tallowate	
Mineral oil	
Monochloracetic acid	
Monooctyldiphenylamine	
Montan wax	
Morpholine	
Myristic acid-chromic chloride complex	
Myristyl alcohol	
Naphtha	
Naphthalene, monosulfonated	
Naphthalene sulfonic acid-formaldehyde condensate, sodium salt	
α-Naphthylamine	
α,α',α",α'"-Neopentane tetrayltetrakis [*omega*-hydroxypoly (oxypropylene) (1-2 moles)], average molecular weight 400	
Nitric acid	
μ-Nitrobiphenyl	
Nitrocellulose	
2-Nitropropane	
α-(*p*-Nonylphenyl)-*omega*-hydroxypoly (oxyethylene) mixture of dihydrogen phosphate and monohydrogen phosphate esters; the nonyl group is a propylene trimer isomer and the poly (oxyethylene) content averages 6-9 moles or 50 moles	
α(*p*-Nonylphenyl)-*omega*-hydroxypoly (oxyethylene) produced by the condensation of 1 mole	

Substances	Limitations
of *p*-nonylphenol (nonyl group is a propylene trimer isomer) with an average of 1-40 moles of ethylene oxide	
α-(*p*-Nonylphenyl)-*omega*-hydroxypoly (oxyethylene) sulfate, ammonium salt: the nonyl group is a propylene trimer isomer and the poly (oxyethylene) content averages 9 or 30 moles	
endo-*cis*-5-Norbornene-2,3-dicarboxylic anhydride	
α-*cis*-9-Octadecenyl-*omega*-hydroxypoly (oxyethylene); the octadecenyl group is derived from oleyl alcohol and the poly (oxyethylene) content averages 20 moles	
Octadecyl 3,5-di-*tert*-butyl-4-hydroxyhydrocinnamate	
Octyl alcohol	
Octylphenol	
Octylphenoxyethanols	
Octylphenoxypolyethoxy-polypropoxyethanol (13 moles of ethylene oxide and propylene oxide)	
Odorless light petroleum hydrocarbons	
Oleamide (oleic acid amide)	
Oleic acid, sulfated	
2,2'-Oxamidobis[ethyl 3-(3,5-di-*tert*-butyl-4-hydroxyphenyl)propionate] (CAS Reg. No. 70331-94-1)	
Oxazoline	
α-(oxiranylmethyl)-ω-(oxiranylmethoxy)poly[oxy(methyl-1,2-ethanediyl)], (alternative name: epichlorohydrin-polypropylene glycol) (CAS Reg. No. 26142-30-3)	For use as a reactant in the preparation of epoxy-based resins.
2,2'-[oxybis[(methyl-2,1-ethanediyl)-oxymethylene]]bisoxirane, (alternative name: epichlorohydrin-dipropylene glycol) (CAS Reg. No. 41638-13-5)	For use as a reactant in the preparation of epoxy-based resins.
n-Oxydiethylene-benzothiazole	
Palmitamide (palmitic acid amide)	
Paraffin (C_{12}-C_{20}) sulfonate	
Paraformaldehyde	
Pentachlorophenol	
Pentaerythritol ester of maleic anhydride	
Pentaerythritol monostearate	For use as preservative only.
Pentaerythritol tetrabenzoate [CAS Registry No. 4196-86-5]	
Pentaerythritol tetrastearate	
2,4-Pentanedione	

Substances	Limitations
Pentasodium diethylenetriaminepentaacetate (CAS Reg. No. 140-01-2)	
Perchloroethylene	
Petrolatum	
Petroleum hydrocarbon resin (cyclopentadiene type), hydrogenated	
Petroleum hydrocarbon resin (produced by the catalytic polymerization and subsequent hydrogenation of styrene, vinyltoluene, and indene types from distillates of cracked petroleum stocks)	
Petroleum hydrocarbon resins (produced by the homo-and copolymerization of dienes and olefins of the aliphatic, alicyclic, and monobenzenoid arylalkene types from distillates of cracked petroleum stocks)	
Phenol	For use as preservative only.
Phenol-coumarone-indene resin	
Phenolic resins as described in § 175.300(b)(3)(vi)	
Phenothiazine	For use only as polymerization-control agent.
Phenyl-β-naphthylamine (free of β-naphthylamine)	
o-Phenylphenol	For use as preservative only.
o-Phthalic acid	
Pimaric acid	
Pine oil	
Piperazine	
Piperidinium pentamethylenedithiocarbamate	
Poly(acrylamide-[2-acrylamide-2-methylpropylsulfonate]-dimethylidiallyl ammonium chloride) sodium salt (CAS Reg. No. 72275-68-4)	
Polyamides derived from reaction of one or more of the following acids with one or more of the following amines:	
Acids:	
Azelaic acid	
Dimerized vegetable oil acids	
Amines:	
Bis(hexamethylene) triamine and higher homologues	
Diethylenetriamine	
Diphenylamine	
Ethylenediamine	
Hexamethylenediamine	
Poly(oxypropylene)diamine (weight average molecular weight 2010) (CAS Reg. No. 9046-10-0)	
Poly(oxypropylene)diamine (weight average molecular weight 440) (CAS Reg. No. 9046-10-0)	
Tetraethylenepentamine	

Substances	Limitations
Triethylenetetramine	
Polybutene, hydrogenated	
Polybutylene glycol (molecular weight 1,000)	
Poly [2(diethylamino) ethyl methacrylate] phosphate	
Polyester of adipic acid, phthalic acid, and propylene glycol, terminated with butyl alcohol	
Polyester of diglycolic acid and propylene glycol containing ethylene glycol monobutyl ether as a chain stopper	
Polyester resins (including alkyd type), as the basic polymer, formed as esters when one or more of the following acids are made to react with one or more of the following alcohols:	
Acids:	
Azelaic acid	
Dimethyl 1,4-cyclohexanedicarboxylate (CAS Reg. No. 94-60-0)	
Dimethyl-5-sulfoisophthalic acid (CAS Reg. No. 50975-82-1) and/or its sodium salt (CAS Reg. No. 3965-55-7)	
Polybasic and monobasic acids identified in § 175.300(b)(3)(vii)(*a*) and (*b*)	
5-sulfo-1,3-benzenedicarboxylic acid, monosodium salt (CAS Reg. No. 6362-79-4)	
Tetrahydrophthalic acid	
Alcohols:	
1,4-Cyclohexanedimethanol	
2,2-Dimethyl-1,3-propanediol	
1,6-Hexanediol (CAS Reg. No. 629-11-8)	
Polyhydric and monohydric alcohols identified in § 175.300(b)(3)(vii)(*c*) and (*d*)	
Polyethyleneadipate modified with ethanolamine with the molar ratio of the amine to the adipic acid less than 0.1 to 1	For use only in the preparation of polyurethan resins.
Polyethylene glycol (molecular weight 200-6,000)	
Polyethylene glycol mono-isotridecyl ether sulfate, sodium salt (CAS Reg. No. 150413-26-6)	
Polyethyleneglycol alkyl(C_{10}-C_{12})ether sulfosuccinate, disodium salt (CAS Reg. No. 68954-91-6)	
Polyethylene, oxidized	
Polyethylene resins, carboxyl modified, identified in § 177.1600 of this chapter	
Polyethylenimine	
Polyethylenimine-epichlorohydrin resins	
Poly(ethyloxazoline) (CAS Reg. No. 25805-17-8)	
Polyisoprene	
Polymeric esters of polyhydric alcohols and polycarboxylic acids prepared from glycerin and phthalic anhydride and modified with benzoic acid, castor oil, coconut oil, linseed oil, rosin, soybean oil, styrene, and vinyl toluene	
Polymers: Homopolymers and copolymers of the following monomers:	

Substances	Limitations
Acrylamide	
Acrylic acid	
Acrylonitrile	
Allylmethacrylate (CAS Reg. No. 00096-05-09)	
Butadiene	
Butene	
N-tert-Butylacrylamide	
Butyl acrylate	
1,3-Butylene glycol dimethacrylate	
Butyl methacrylate	
Crotonic acid	
Decyl acrylate	
Diallyl fumarate	
Diallyl maleate	
Diallyl phthalate	
Dibutyl fumarate	
Dibutyl itaconate	
Dibutyl maleate	
Di(2-ethylhexyl) maleate	
Dimethyl-α-methylstyrene	
Dioctyl fumarate	
Dioctyl maleate	
Divinylbenzene	
Ethyl acrylate	
Ethylene	
Ethylene cyanohydrin	
2-Ethylhexyl acrylate	
Ethyl methacrylate	
Fatty acids, C_{10-13}-branched, vinyl esters (CAS Reg. No. 184785-38-4)	
Fumaric acid and/or its methyl, ethyl, propyl, butyl, amyl hexyl, heptyl and octyl esters	
Glycidyl methacrylate	
1-Hexene (CAS Reg. No. 592-41-6)	
2-Hydroxyethyl acrylate	
2-Hydroxyethyl methacrylate	
2-Hydroxypropyl methacrylate	
Isobutyl acrylate	
Isobutylene	
Itaconic acid	
Maleic acid, diester with 2-hydroxyethanesulfonic acid, sodium salt	

Substances	Limitations
Maleic anhydride	
Methacrylic acid	
Methyl acrylate	
N,N'-Methylenebisacrylamide	
Methyl methacrylate	
N-Methylolacrylamide	
Methyl styrene	
-Methyl styrene	
Monoethyl maleate	
Monomethyl maleate	
Mono (2-ethylhexyl) maleate	
5-Norbornene-2 3-dicarboxylic acid, mono-*n*-butyl ester	
1-Octene (CAS Reg. No. 111-66-0)	
Propyl acrylate	
Propylene	
Styrene	
Triallyl cyanurate	
Vinyl acetate	
Vinyl alcohol (from alcoholysis or hydrolysis of vinyl acetate units)	
Vinyl butyrate	
Vinyl chloride	
Vinyl crotonate	
Vinyl ethyl ether	
Vinyl hexoate	
Vinylidene chloride	
Vinyl methyl ether	
Vinyl pelargonate	
Vinyl propionate	
Vinyl pyrrolidone	
Vinyl stearate	
Polyoxyalkylated-phenolic resin (phenolic resin obtained from formaldehyde plus butyl- and/or amylphenols, oxyalkylated with ethylene oxide and/or propylene oxide)	
Poly(oxycaproyl) diols and triols (minimum molecular weight 500)	
Polyoxyethylated (40 moles) tallow alcohol sulfate, sodium salt	
Polyoxyethylene (20 mol)—anhydrous lanolin adduct	
Polyoxyethylene (molecular weight 200) dibenzoate	
Polyoxyethylene (molecular weight 200-600) esters of fatty acids derived from animal or vegetable fats and oils (including tall oil)	
Polyoxyethylene (15 moles) ester of rosin	
Polyoxyethylene (4-5 moles) ether of phenol	

Substances	Limitations
Polyoxyethylene (25 moles)—glycerol adduct	
Polyoxyethylene (40 moles) stearate	
Polyoxyethylene (5-15 moles) tridecyl alcohol	
Polyoxypropylene (3 moles) tridecyl alcohol sulfate	
Polyoxypropylene (20 moles) butyl ether	
Polyoxypropylene (40 moles) butyl ether	
Polyoxypropylene (20 moles) oleate butyl ether	
Polyoxypropylene-polyoxyethylene condensate (minimum molecular weight 1,900)	
Polypropylene glycol (minimum molecular weight 150)	
Polypropylene glycol (3-4 moles) triether with 2-ethyl-2-(hydroxymethyl)-1,3-propane-diol, average molecular weight 730	
Polypropylene glycol dibenzoate (CAS Reg. No. 72245-46-6)	For use as a plasticizer at levels not to exceed 20 percent by weight of the finished adhesive.
Polypropylene, noncrystalline	
Polysiloxanes:	
Diethyl polysiloxane	
Dihydrogen polysiloxane	
Dimethyl polysiloxane	
Diphenyl polysiloxane	
Ethyl hydrogen polysiloxane	
Ethyl phenyl polysiloxane	
Methyl ethyl polysiloxane	
Methyl hydrogen polysiloxane	
Methyl phenyl polysiloxane	
Phenyl hydrogen polysiloxane	
Polysorbate 60	
Polysorbate 80	
Polysorbate 20 (polyoxyethylene (20) sorbitan monolaurate)	
Polysorbate 40 (polyoxyethylene (20) sorbitan monopalmitate)	
Poly[styrene-co-disodium maleate-co-α-(*p*-nonyl-phenyl)-*omega*-(*p*-vinyl-benzyl)poly(oxyethylene)] terpolymer	
Polytetrafluoroethylene.	
Polyurethane resins produced by: (1) reacting diisocyanates with one or more of the polyols or polyesters named in this paragraph, or (2) reacting the chloroformate derivatives of one or more of the polyols or polyesters named in this paragraph with one or more of the polyamines named in this paragraph, or (3) reacting toluene diisocyanate or 4,4'	

Substances	Limitations
methylenebis(cyclohexylisocyanate) (CAS Reg. No. 5124-30-1) with: (i) one or more of the polyols or polyesters named in this paragraph and with either *N*-methyldiethanolamine (CAS Reg. No. 105-59-9) and dimethyl sulfate (CAS Reg. No. 77-78-1) or dimethylolpropionic acid (CAS Reg. No. 4767-03-7) and triethylamine (CAS Reg. No. 121-44-8), or (ii) a fumaric acid-modified polypropylene glycol or fumaric acid-modified tripropylene glycol), triethylamine (CAS Reg. No. 107-15-3), and ethylenediamine (CAS Reg. No. 121-44-8), or (4) reacting *meta*-tetramethylxylene diisocyanate (CAS Reg. No. 2778-42-9) with one or more of the polyols and polyesters listed in this paragraph and with dimethylolpropionic acid (CAS Reg. No. 4767-03-7) and triethylamine (CAS Reg. No. 121-44-8), *N*-methyldiethanolamine (CAS Reg. No. 105-59-9), 2-dimethylaminoethanol (CAS Reg. No. 108-01-0), 2-dimethylamino-2-methyl-1-propanol (CAS Reg. No. 7005-47-2), and/or 2-amino-2-methyl-1-propanol (CAS Reg. No. 124-68-5)	
Polyvinyl alcohol modified so as to contain not more than 3 weight percent of comonomer units derived from 1-alkenes having 12 to 20 carbon atoms	
Polyvinyl butyral	
Polyvinyl formal	
Potassium ferricyanide	For use only as polymerization-control agent.
Potassium *N*-methyldithiocarbamate	
Potassium pentachlorophenate	For use as preservative only.
Potassium permanganate	
Potassium persulfate	
Potassium phosphates (mono-, di-, tribasic)	
Potassium tripolyphosphate	
α, α', α"-1,2,3-Propanetriyltris [*omega*-(2,3-epoxypropoxy) poly (oxypropylene) (24 moles)]	
β-Propiolactone	
Propyl alcohol (propanol)	
Propylene carbonate	
Propylene glycol and *p-p'*-isopropylidenediphenol diether	
Propylene glycol dibenzoate (CAS Reg. No. 19224-26-1)	For use as a plasticizer at levels not to exceed 20 percent by weight of the finished adhesive.
Propylene glycol esters of coconut fatty acids	
Propylene glycol monolaurate	
Propylene glycol monomethyl ether	
Propylene glycol monostearate	

Substances	Limitations
α, α', α"-[Propylidynetris (methylene)] tris [*omega*-hydroxypoly (oxypropylene) (1.5 moles minimum)], minimum molecular weight 400	
Quaternary ammonium chloride (hexadecyl, octadecyl derivative)	For use as preservative only.
Rosin (wood, gum, and tall oil rosin), rosin dimers, decarboxylated rosin (including rosin oil, disproportionated rosin, and these substances as modified by one or more of the following reactants:	
Alkyl (C_1-C_9) phenolformaldehyde	
Ammonia	
Ammonium caseinate-*p*-Cyclohexylphenolformaldehyde	
Diethylene glycol	
Dipentaerythritol	
Ethylene glycol	
Formaldehyde	
Fumaric acid	
Glycerin	
Hydrogen	
Isophthalic acid	
4,4'-Isopropylidenediphenol-epichlorohydrin (epoxy)	
4,4'-Isopropylidenediphenol-formaldehyde	
Maleic anhydride	
Methyl alcohol	
Pentaerythritol	
Phthalic anhydride	
Polyethylene glycol	
Phenol-formaldehyde	
Phenyl μ-cresol-formaldehyde	
p-Phenylphenol-formaldehyde	
Sulfuric acid	
Triethylene glycol	
Xylenol-formaldehyde	
Rosin salts (salts of wood, gum, and tall oil rosin, and the dimers thereof, decarboxylated rosin disproportionated rosin, hydrogenated rosin):	
Aluminum	
Ammonium	
Calcium	
Magnesium	
Potassium	
Sodium	
Zinc	

Substances	Limitations
Rosin, gasoline-insoluble fraction	
Rubber hydrochloride polymer	
Rubber latex, natural	
Salicylic acid	For use as preservative only.
Sandarac	
Sebacic acid	
Shellac	
Silicon dioxide as defined in § 172.480(a) of this chapter	
Sodium alkyl (C_2-$C_{13.5}$ aliphatic) benezenesulfonate	
Sodium aluminum pyrophosphate	
Sodium aluminum sulfate	
Sodium bisulfate	
Sodium calcium silicate	
Sodium capryl polyphosphate	
Sodium carboxymethylcellulose	
Sodium chlorate	
Sodium chlorite	
Sodium chromate	
Sodium decylsulfate	
Sodium dehydroacetate	For use as preservative only.
Sodium di-(2-ethylhexoate)	
Sodium di-(2-ethylhexyl) pyrophosphate	
Sodium dihexylsulfosuccinate	
Sodium dissobutylphenoxydiethoxyethyl sulfonate	
Sodium diisobutylphenoxymonoethoxyethyl sulfonate	
Sodium diisopropyl- and triisopropylnaphthalenesulfonate	
Sodium dimethyldithiocarbamate	
Sodium dioctylsulfosuccinate	
Sodium *n*-dodecylpolyethoxy (50 moles) sulfate	
Sodium ethylene ether of nonylphenol sulfate	
Sodium 2-ethylhexyl sulfate	
Sodium fluoride	For use only as bonding agent for aluminum foil, stabilizer, or preservative. Total fluoride for all sources not to

Substances	Limitations
	exceed 1 percent by weight of the finished adhesive.
Sodium formaldehyde sulfoxylate	
Sodium formate	
Sodium heptadecylsulfate	
Sodium hypochlorite	
Sodium isododecylphenoxypolyethoxy (40 moles) sulfate	
Sodium *N*-lauroyl sarcosinate	
Sodium metaborate	
Sodium α-naphthalene sulfonate	
Sodium nitrate	
Sodium nitrite	
Sodium oleoyl isopropanolamide sulfosuccinate	
Sodium pentachlorophenate	For use as preservative only.
Sodium perborate	
Sodium persulfate	
Sodium μ-phenylphenate	For use as preservative only.
Sodium polyacrylate	
Sodium polymethacrylate	
Sodium polystyrene sulfonate	
Sodium salicylate	For use as preservative only.
Sodium salt of 1-hydroxy 2(1H)-pyridine thione	Do.
Sodium tetradecylsulfate	
Sodium thiocyanate	
Sodium bis-tridecylsulfosuccinate	
Sodium xylene sulfonate	
Sorbitan monooleate	
Sorbitan monostearate	
Soybean oil, epoxidized	
Spermaceti wax	
Sperm oil wax	
Stannous 2-ethylhexanoate	For use only as a catalyst for polyurethane resins.
Stannous stearate	

Substances	Limitations
Starch hydrolysates	
Starch or starch modified by one or more of the treatments described in §§ 172.892 and 178.3520 of this chapter	
Starch, reacted with a urea-formaldehyde resin	
Starch, reacted with formaldehyde	
Stearamide (stearic acid amide)	
Stearic acid	
Stearic acid-chromic chloride complex	
Stearyl-cetyl alcohol, technical grade, approximately 65 percent-80 percent stearyl and 20 percent-35 percent cetyl	
Strontium salicylate	
Styrenated phenol	
Styrene block polymers with 1,3-butadiene	
Styrene-maleic anhydride copolymer, ammonium or potassium salt	
Styrene-maleic anhydride copolymer (partially methylated) sodium salt	
Styrene-methacrylic acid copolymer, potassium salt	
Sucrose acetate isobutyrate	
Sucrose benzoate	
Sucrose octaacetate	
2-sulfoethyl methacrylate (CAS Registry No. 10595-80-9)	For use at levels not to exceed 2 percent by weight of the dry adhesive.
α-Sulfo-omega-(dodecyloxy)poly (oxyethylene), ammonium salt	
Sulfonated octadecylene (sodium form)	
Sulfosuccinic acid 4-ester with polyethylene glycol dodecyl ether disodium salt (alcohol moiety produced by condensation of 1 mole of *n*-dodecyl alcohol and an average of 5-6 moles of ethylene oxide, Chemical Abstracts Service Registry No. 039354-45-5)	
Sulfosuccinic acid 4-ester with polyethylene glycol nonylphenyl ether, disodium salt (alcohol moiety produced by condensation of 1 mole of nonylphenol and an average of 9-10 moles of ethylene oxide) (CAS Reg. No. 9040-38-4)	
Sulfur	
Synthetic primary linear aliphatic alcohols whose weight average molecular weight is greater than 400 (CAS Reg. No. 71750-71-5)	
Synthetic wax polymer as described in § 176.170(a)(5) of this chapter	
Tall oil	
Tall oil fatty acids, linoleic and oleic	
Tall oil fatty acid methyl ester	
Tall oil, methyl ester	
Tall oil pitch	

Substances	Limitations
Tall oil soaps	
Tallow alcohol (hydrogenated)	
Tallow amine, secondary (hexadecyl, octadecyl), of hard tallow	
Tallow, blown (oxidized)	
Tallow, propylene glycol ester	
Terpene resins (α-and β-pinene) homopolymers, copolymers, and condensates with phenol, formaldehyde, coumarone, and/or indene	
Terphenyl	
Terphenyl, hydrogenated	
Terpineol	
Tetraethylene pentamine	
Tetraethylthiuram disulfide	
Tetrahydrofuran	
Tetrahydrofurfuryl alcohol	
Tetra-isopropyl titanate	
Tetrakis[methylene (3,5-di-*tert*-butyl-4-hydroxy-hydro-cinnamate)] methane	
a[*p*-(1,1,3,3-Tetramethylbutyl) phenyl]-*omega*-hydroxypoly-(oxyethylene) produced by the condensation of 1 mole of *p*-(1,1,3,3-tetramethylbutyl) phenol with an average of 1-40 moles of ethylene oxide	
a-[*p*-(1,1,3,3-Tetramethylbutyl) phenyl]-*omega*-hydroxy-poly(oxyethylene) mixture of dihydrogen phosphate and monohydrogen phosphate esters and their sodium, potassium, and ammonium salts having a poly(oxyethylene) content averaging 6-9 or 40 moles	
Tetramethyl decanediol	
Tetramethyl decynediol	
Tetramethyl decynediol plus 1-30 moles of ethylene oxide	
Tetramethylthiuram monosulfide	
Tetrasodium *N*-(1,2-dicarboxyethyl)*N*-octadecylsulfosuccinamate	
4,4'-Thiobis-6-*tert*-butyl-*m*-cresol	
Thiodiethylene-bis(3,5-di-*tert*-butyl-4-hydroxyhydrocinnamate)	
2,2'-(2,5-Thiophenediyl) bis[5-*tert*-butylbenzoxazole]	
Thiram	
Thymol	For use as preservative only.
Titanium dioxide	
Titanium dioxide-barium sulfate	
Titanium dioxide-calcium sulfate	
Titanium dioxide-magnesium silicate	
Toluene	
Toluene 2,4-diisocyanate	
Toluene 2,6-diisocyanate	

Substances	Limitations
o- and *p*-Toluene ethyl sulfonamide	
o- and *p*-Toluene sulfonamide	
p-Toluene sulfonic acid	
p-(*p*'-Toluene-sulfonylamide)-diphenylamide	
Triazine-formaldehyde resins as described in § 175.300(b)(3)(xiii)	
Tributoxyethyl phosphate	
Tributylcitrate	
Tri-*tert*-butyl-*p*-phenyl phenol	For use as preservative only.
Tributyl phosphate	
Tributyltin chloride complex of ethylene oxide condensate of dehydroabietylamine	For use as preservative only.
Tri-*n*-butyltin acetate	For use as preservative only.
Tri-*n*-butyltin neodecanoate	Do.
1,1,1-Trichloroethane	
1,1,2-Trichloroethane	
Trichloroethylene	
Tri-β-chloroethylphosphate	
Tridecyl alcohol	
Triethanolamine	
3-(Triethoxysilyl) propylamine	
Triethylene glycol	
Triethylene glycol dibenzoate	
Triethylene glycol di(2-ethylhexoate)	
Triethylene glycol polyester of benzoic acid and phthalic acid	
Triethylhexyl phosphate	
Triethylphosphate	
2,4,5-Trihydroxy butyrophenone	
Triisopropanolamine	
Trimethylol propane	
2,2,4-Trimethylpentanediol-1,3-diisobutyrate	
Trimeric aromatic amine resin from diphenylamine and acetone of molecular weight approximately 500	
Tri(nonylphenyl) phosphite-formaldehyde resins	As identified in § 177.2600(c)(4)(iii) of this chapter. For use only as a stabilizer.
Triphenylphosphate	

Substances	Limitations
Tripropylene glycol monomethyl ether	
1,3,5-Tris (3,5-di-*tert*-butyl-4-hydroxy-benzyl)-triazine-2,4,6 (1H,3H,5H)-trione	
Tris (*p*-tertiary butyl phenyl) phosphate	
Tris(2-methyl-4-hydroxy-5-*tert*-butyl-phenyl)butane	
Trisodium *N*-hydroxyethylethylenediaminetriacetate (CAS Reg. No. 139-89-9)	
Turpentine	
Urea-formaldehyde resins as described in § 175.300(b)(3)(xii)	
Vegetable oil, sulfonated or sulfated, potassium salt	
Vinyl acetate-maleic anhydride copolymer, sodium salt	
Waxes, petroleum	
Wax, petroleum, chlorinated (40% to 70% chlorine)	
Waxes, synthetic paraffin (Fischer-Tropsch process)	
3-(2-Xenolyl)-1,2-epoxypropane	
Xylene	
Xylene (or toluene) alkylated with dicyclopentadiene	
Zein	
Zinc acetate	
Zinc ammonium chloride	
Zinc dibenzyl dithiocarbamate	
Zinc dibutyldithiocarbamate	
Zinc diethyldithiocarbamate	
Zinc di(2-ethylhexoate)	
Zinc formaldehyde sulfoxylate	
Zinc naphthenate and dehydroabietylamine mixture	
Zinc nitrate	
Zinc orthophosphate	
Zinc resinate	
Zinc sulfide	
Zineb (zinc ethylenebis-dithiocarbamate)	
Ziram (zinc dimethyldithiocarbamate)	

[42 FR 14534, Mar. 15, 1977; 42 FR 56728, Oct. 28, 1977]

Editorial Note: For FEDERAL REGISTER citations affecting § 175.105, see the List of CFR Sections Affected, which appears in the Finding Aids section of the printed volume and at *www.govinfo.gov*.