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**Title 40 –Protection of Environment**  
**Chapter I –Environmental Protection Agency**  
**Subchapter E –Pesticide Programs**  
**Part 180 –Tolerances and Exemptions for Pesticide Chemical Residues in Food**  
**Subpart D –Exemptions From Tolerances**

**Authority:** 21 U.S.C. 321(q), 346a and 371.

**Source:** 36 FR 22540, Nov. 25, 1971, unless otherwise noted.

**Editorial Note:** Nomenclature changes to part 180 appear at 62 FR 66023, Dec. 17, 1997.

**§ 180.960 Polymers; exemptions from the requirement of a tolerance.**

Residues resulting from the use of the following substances, that meet the definition of a polymer and the criteria specified for defining a low-risk polymer in 40 CFR 723.250, as an inert ingredient in a pesticide chemical formulation, including antimicrobial pesticide chemical formulations, are exempted from the requirement of a tolerance under FFDCA section 408, if such use is in accordance with good agricultural or manufacturing practices.

Table 1 to § 180.960

Polymer	CAS No.
Acetic acid ethenyl ester, polymer with ethane, ethenyltriethoxysilane and sodium ethenesulfonate (1:1); minimum number average molecular weight (in amu), 16,200	913187-38-9
Acetic acid ethenyl ester, polymer with ethene and ethenol, minimum number average molecular weight (in amu), 20,000	26221-27-2
Acetic acid ethenyl ester, polymer with ethene, N-(hydroxymethyl)-2-propenamide, and 2-propenamide, (AM-E-NMA-VA) minimum number average molecular weight (in amu), 5500	49603-78-3
Acetic acid ethenyl ester, polymer with ethenol and (α)-2-propenyl-(ω)-hydroxypoly (oxy-1,2-ethanediyl) minimum number average molecular weight (in amu), 15,000	137091-12-4
Acetic acid ethenyl ester, polymer with 1-ethenyl-2-pyrrolidinone	25086-89-9
Acetic acid ethenyl ester, polymer with oxirane, minimum number average molecular weight (in amu), 17,000	25820-49-9
Acetic acid ethenyl ester, polymer with sodium 2-methyl-2-[(1-oxo-2-propen-1-yl)amino]-1-propanesulfonate (1:1), hydrolyzed, minimum number average molecular weight (in amu), 61,000	924892-37-5
Acrylamide-Sodium Acrylamidomethylpropanesulfonate Copolymer, minimum number average molecular weight (amu), 1,000,000 daltons.	38193-60-1
Acrylic acid-benzyl methacrylate-1-propanesulfonic acid,	1152297-42-1

Polymer	CAS No.
2-methyl-2-[(1-oxo-2-propenyl)amino]-, monosodium salt, minimum number average molecular weight (in amu), 1500	
Acrylic acid-butyl acrylate-styrene copolymer, minimum number average molecular weight (in amu), 5,200	25586-20-3
Acrylic acid, polymerized, and its ethyl and methyl esters	None
Acrylic acid-sodium acrylate-sodium-2-methylpropanesulfonate copolymer, minimum average molecular weight (in amu), 4,500	97953-25-8
Acrylic acid-stearyl methacrylate copolymer, minimum number average molecular weight (in amu), 2,500	27756-15-6
Acrylic acid, styrene, $\alpha$ -methyl styrene copolymer, ammonium salt, minimum number average molecular weight (in amu), 1,250	89678-90-0
Acrylic acid terpolymer, partial sodium salt, minimum number average molecular weight (in amu), 2,400	151006-66-5
Acrylic polymers composed of one or more of the following monomers: Acrylic acid, butyl acrylate, butyl methacrylate, carboxyethyl acrylate, ethyl acrylate, ethyl methacrylate, hydroxybutyl acrylate, hydroxybutyl methacrylate, hydroxyethyl acrylate, hydroxyethyl methacrylate, hydroxypropyl acrylate, hydroxypropyl methacrylate, isobutyl methacrylate, lauryl methacrylate, methacrylic acid, methyl acrylate, lauryl acrylate, methyl methacrylate and stearyl methacrylate; with none and/or one or more of the following monomers: Acrylamide, diethyl maleate, dioctyl maleate, maleic acid, maleic anhydride, monoethyl maleate, monoethyl maleate, N-methyl acrylamide, N,N-dimethyl acrylamide, N-octylacrylamide, and acrylamidopropyl methyl sulfonic acid; and their corresponding ammonium, isopropylamine, monoethanolamine, potassium, sodium triethylamine, and/or triethanolamine salts; the resulting polymer having a minimum number average molecular weight (in amu), 1,200	None
Acrylonitrile-butadiene copolymer conforming to 21 CFR 180.22, minimum average molecular weight (in amu), 1,000	9003-18-3
Acrylonitrile-styrene-hydroxypropyl methacrylate copolymer, minimum number average molecular weight (in amu), 447,000	None
C10-23 alkyl group-containing alkali-soluble acrylic emulsion polymer, minimum number average molecular weight (in amu), 29,000 Daltons	174127-24-3
Alkoxylated C8-C18 Saturated and Unsaturated Alcohol and Adipic Acid, (AASUAA), minimum number average molecular weight (in amu), 1,300	397247-05-1, 227755-70-6, 397247-06-2, 1065234-83-4, and 497157-72-9.
$\alpha$ -Alkyl- $\omega$ -hydroxypoly (oxypropylene) and/or poly (oxyethylene) polymers where the alkyl chain contains a minimum of six carbons and a minimum number average molecular weight (in amu) 1,100	9002-92-0; 9004-95-9; 9004-98-2; 9005-00-9; 9035-85-2; 9038-29-3; 9038-43-1; 9040-05-5; 9043-30-5; 9087-53-0; 25190-05-0; 24938-91-8; 25231-21-4; 251553-55-6; 26183-52-8; 26468-86-0; 26636-39-5; 26636-40-8;

Polymer	CAS No.
	27252-75-1; 27306-79-2;
	31726-34-8; 32128-65-7;
	34398-01-1; 34398-05-5;
	37251-67-5; 37311-00-5;
	37311-01-6; 37311-02-7;
	37311-04-9; 39587-22-9;
	50861-66-0; 52232-09-4;
	52292-17-8; 52609-19-5;
	57679-21-7; 59112-62-8;
	60636-37-5; 60828-78-6;
	61702-78-1; 61723-78-2;
	61725-89-1; 61791-13-7;
	61791-20-6; 61791-28-4;
	61804-34-0; 61827-42-7;
	61827-84-7; 62648-50-4;
	63303-01-5; 63658-45-7;
	63793-60-2; 64366-70-7;
	64415-24-3; 64415-25-4;
	64425-86-1; 65104-72-5;
	65150-81-4; 66455-14-9;
	66455-15-0; 67254-71-1;
	67763-08-0; 68002-96-0;
	68002-97-1; 68131-39-5;
	68131-40-8; 68154-96-1;
	68154-97-2; 68154-98-3;
	68155-01-1; 68213-23-0;
	68213-24-1; 68238-81-3;
	68238-82-4; 68409-58-5;
	68409-59-6; 68439-30-5;
	68439-45-2; 68439-46-3;
	68439-48-5; 68439-49-6;
	68439-50-9; 68439-51-0;
	68439-53-2; 68439-54-3;
	68458-88-8; 68526-94-3;
	68526-95-4; 68551-12-2;
	68551-13-3; 68551-14-4;
	68603-20-3; 68603-25-8;
	68920-66-1; 68920-69-4;
	68937-66-6; 68951-67-7;
	68954-94-9; 68987-81-5;
	68991-48-0; 69011-36-5;
	69013-18-9; 69013-19-0;
	69227-20-9; 69227-21-0;
	69227-22-1; 69364-63-2;
	70750-27-5; 70879-83-3;
	70955-07-6; 71011-10-4;
	71060-57-6; 71243-46-4;
	72066-65-0; 72108-90-8;

Polymer	CAS No.
	72484-69-6; 72854-13-8; 72905-87-4; 73018-31-2; 73049-34-0; 74432-13-6; 74499-34-6; 78330-19-5; 78330-20-8; 78330-21-9; 78330-23-1; 79771-03-2; 84133-50-6; 85422-93-1; 97043-91-9; 97953-22-5; 102782-43-4; 103331-86-8; 103657-84-7; 103657-85-8; 103818-93-5; 103819-03-0; 106232-83-1; 111905-54-5; 116810-31-2; 116810-32-3; 116810-33-4; 120313-48-6; 120944-68-5; 121617-09-2; 126646-02-4; 126950-62-7; 127036-24-2; 139626-71-4; 152231-44-2; 154518-36-2; 157627-86-6; 157627-88-8; 157707-41-0; 157707-43-2; 159653-49-3; 160875-66-1; 160901-20-2; 160901-09-7; 160901-19-9; 161025-21-4; 161025-22-5; 161133-70-6; 166736-08-9; 169107-21-5; 172588-43-1; 176022-76-7; 196823-11-7; 287935-46-0; 288260-45-7; 303176-75-2; 954108-36-2; 2222805-23-2; 2409830-33-5
Amines, coco alkyl, ethoxylated, compounds with acrylic acid-Bu acrylate-methylstyrene-styrene polymer, ammonium salts; minimum number average molecular weight (in amu), 2700	1186094-73-4
2H-Azepin-2-one, 1-ethenylhexahydro-, homopolymer	25189-83-7
1,3 Benzene dicarboxylic acid, 5-sulfo-, 1,3-dimethyl ester, sodium salt, polymer with 1,3-benzene dicarboxylic acid, 1,4-benzene dicarboxylic acid, dimethyl 1,4-benzene dicarboxylate and 1,2-ethanediol, minimum number average molecular weight (in amu), 2,580	212842-88-1
1,3-Benzenedicarboxylic acid, 5-sulfo-, sodium salt (1:1), polymer with 1,3-benzenedicarboxylic acid, 1,4-cyclohexanedimethanol and 2,2'-oxybis[ethanol], minimum number average molecular weight (in amu), 30,400	54590-72-6
3,5-Bis(6-isocyanatohexyl)-2H-1,3,5-oxadiazine-2,4,6-(3H,5H)-trione, polymer with diethylenetriamine, minimum number average molecular weight (in amu), 1,000,000	87823-33-4
Polymer of one or more diglycidyl ethers of bisphenol A, resorcinol,	None

Polymer	CAS No.
glycerol, cyclohexanedimethanol, neopentyl glycol, and polyethylene glycol with one or more of the following: Polyoxypropylene diamine, polyoxypropylene triamine, N-aminoethyl-piperazine, trimethyl-1,6-hexanediamine isophorone diamine, N,N-dimethyl-1,3-diaminopropane, nadic methyl anhydride, 1,2-cyclohexane-dicarboxylic anhydride and 1,2,3,6-tetrahydrophthalic anhydride, minimum number average molecular weight (in amu), 400,000	
Butadiene-styrene copolymer	None
Butanedioic acid, 2-methylene-, homopolymer, sodium salt, minimum number average molecular weight (in amu), 3936	26099-89-8
Butanedioic acid, 2-methylene-, polymer with 1,3-butadiene, ethenylbenzene and 2-hydroxyethyl 2-propenoate, minimum number average molecular weight (in amu), 10,000	36089-06-2
Butanedioic acid, 2-methylene-, polymer with 2,5-furandione, sodium and ammonium salts, hydrogen peroxide-initiated, minimum number average molecular weight (in amu), 2,500-3,000	556055-76-6 701908-99-8
Butanedioic acid, 2-methylene-, telomer with sodium phosphinate (1:1), acidified, potassium salt minimum number average molecular weight (in amu), 3800	1663489-14-2
1,4-Butanediol-methylenebis(4-phenylisocyanate)-poly(tetramethylene glycol) copolymer, minimum molecular weight (in amu) 158,000	9018-04-6
Butene, homopolymer	9003-29-6
2-butenedioic acid (2Z)-, monobutyl ester, polymer with methoxyethene, sodium salt, minimum number average molecular weight (in amu), 18,200	205193-99-3
2-Butenedioic acid (Z)-, polymer with ethenol and ethenyl acetate, sodium salt, minimum number average molecular weight (in amu), 75,000	139871-83-3
Butyl acrylate-vinyl acetate-acrylic acid copolymer, minimum number average molecular weight (in amu), 18,000	65405-40-5
Carbonic acid, diethyl ester, polymer with $\alpha$ -hydro- $\omega$ -hydroxypoly[oxy(methyl-1,2-ethanediyl)] ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), ester with $\alpha$ -[[[5-(carboxyamino)-1,3,3-trimethylcyclohexyl]methyl]amino]carbonyl]- $\omega$ -methoxypoly(oxy-1,2-ethanediyl), minimum number average molecular weight (in amu), 1,900	1147260-65-8
Castor oil, ethoxylated, dioleate, minimum number average molecular weight (in amu), 1260.	110531-96-9
Castor oil, ethoxylated, oleate, minimum number average molecular weight (in amu), 1,600	220037-02-5
Castor oil, polymer with adipic acid, linoleic acid, oleic acid and ricinoleic acid, minimum number average molecular weight (in amu), 3,500	1357486-09-9
Castor oil, polyoxyethylated; the poly(oxyethylene) content averages	None

Polymer	CAS No.
5–54 moles	
Cellulose carboxymethyl ether, potassium salt, minimum number average molecular weight 9587 Daltons	54848–04–3
Cellulose, ethyl ether, minimum number average molecular weight (in amu), insert 13,000 Daltons	9004–57–3
Cellulose, ethyl 2-hydroxyethyl ether, minimum number average molecular weight (in amu), 165,000 Daltons	9004–58–4
Chlorinated polyethylene	64754–90–1
Cross-linked nylon-type polymer formed by the reaction of a mixture of sebacoyl chloride and polymethylene polyphenylisocyanate with a mixture of ethylenediamine and diethylenetriamine	None
Cross-linked polyurea-type encapsulating polymer	None
D-Glucitol, polymer with decanedioic acid, docosanoate, minimum number average molecular weight (in amu) 1,100	943440–33–3
D-Glucitol, polymer with decanedioic acid, docosanoate, minimum number average molecular weight (in amu) 1,100	1681043–28–6
D-Glucitol, polymer with decanedioic acid, octadecanoate, minimum number average molecular weight (in amu) 1,100	68562–93–6
D-Glucitol, polymer with decanedioic acid and 1,3-propanediol, minimum number average molecular weight (in amu) 1,100	1681043–31–1
D-Glucitol, polymer with decanedioic acid and 1,3-propanediol, octadecanoate, minimum number average molecular weight (in amu) 1,100	1681043–33–3
$\alpha$ -D-Glucopyranoside, $\beta$ -D-fructofuranosyl, polymer with methyloxirane and oxirane with a minimum number average molecular weight (in amu) of 9,800	26301–10–0
Dimethylpolysiloxane minimum number average molecular weight (in amu), 6,800	63148–62–9
Dimethyl silicone polymer with silica, minimum number average molecular weight (in amu), 1,100,000	67762–90–7
$\alpha$ -(o,p-Dinonylphenyl)- $\omega$ -hydroxypoly(oxyethylene) produced by condensation of 1 mole of dinonylphenol (nonyl group is a propylene trimer isomer) with an average of 140-160 moles of ethylene oxide	9014–93–1
Docosyl methacrylate-acrylic acid copolymer, or docosyl methacrylate-octadecyl methacrylate-acrylic acid copolymer, minimum number average molecular weight (in amu), 3,000	None
1,12-Dodecanediol dimethacrylate polymer, minimum molecular weight (in amu), 100,000	None
$\alpha$ -(p-Dodecylphenyl)- $\omega$ -hydroxypoly(oxyethylene) produced by the condensation of 1 mole of dodecylphenol (dodecyl group is a propylene tetramer isomer) with an average of 30-70 moles of ethylene oxide	9014–92–0 26401–47–8
1,2-Ethanediamine, N1-(2-aminoethyl)-, polymer with 2,4-diisocyanato-1-methylbenzene, minimum number average	35297–61–1

Polymer	CAS No.
molecular weight (in amu), one million	
1, 2-Ethanediamine, polymer with methyl oxirane and oxirane, minimum number average molecular weight (in amu), 1,100	26316-40-5
Ethylene glycol dimethacrylate-lauryl methacrylate copolymer, minimum molecular weight (in amu), 100,000	None
Ethylene glycol dimethacrylate polymer, minimum molecular weight (in amu), 100,000	None
Fatty acids, montan-wax, ethoxylated, minimum number average molecular weight (in amu), 1800	68476-04-0
Fatty acids, C <sub>18</sub> -unsatd., dimers, polymers with docosanoic acid and sorbitol, minimum number average molecular weight (in amu) 1,100	1685270-83-0
Fatty acids, C <sub>18</sub> -unsatd., dimers, polymers with docosenoic acid and sorbitol, minimum number average molecular weight (in amu) 1,100	1685271-02-6
Fatty acids, C <sub>18</sub> -unsatd., dimers, polymers with docosenoic acid, 1,3-propanediol and sorbitol, minimum number average molecular weight (in amu) 1,100	1685271-04-8
Fatty acids, C <sub>18</sub> -unsatd., dimers, polymers with docosanoic acid, 1,3-propanediol and stearic acid, minimum number average molecular weight (in amu) 1,100	1685270-84-1
Fatty acids, C <sub>18</sub> -unsatd., dimers, polymers with 1,3-propanediol, sorbitol and stearic acid	1685271-01-5
Fatty acids, C <sub>18</sub> -unsatd., dimers, polymers with sorbitol and stearic acid, minimum number average molecular weight (in amu) 1,100	1685270-99-8
Fatty acids, C <sub>18</sub> -unsatd., dimers, polymers with ethylenediamine and stearyl alcohol, minimum number average molecular weight (in amu) 1,400	363162-42-9
Fatty acids, C <sub>18</sub> -unsatd., dimers, hydrogenated, polymers with ethylenediamine, neopentyl glycol and stearyl alcohol, minimum number average molecular weight (in amu) 1,400	678991-29-2
Fatty acids, C <sub>18</sub> -unsatd., dimers, hydrogenated, polymers with ethylenediamine and stearyl alcohol, minimum number average molecular weight (in amu) 1,400	951153-32-5
Fatty acids, C <sub>18</sub> -unsatd., dimers, polymers with 1-docosanol and ethylenediamine, minimum number average molecular weight (in amu) 1,400	1699751-19-3
Fatty acids, C <sub>18</sub> -unsatd., dimers, polymers with cetyl alcohol, neopentyl glycol and trimethylenediamine, minimum number average molecular weight (in amu) 1,400	1699751-23-9
Fatty acids, C <sub>18</sub> -unsatd., dimers, polymers with hexamethylenediamine and stearyl alcohol, minimum number average molecular weight (in amu) 1,400	1699751-24-0
Fatty acids, C <sub>18</sub> -unsatd., dimers, hydrogenated, polymers with cetyl alcohol and ethylenediamine, minimum number average molecular weight (in amu) 1,400	1699751-25-1

Polymer	CAS No.
Fatty acids, C <sub>18</sub> -unsatd., dimers, hydrogenated, polymers with neopentyl glycol, stearyl alcohol and trimethylenediamine, minimum number average molecular weight (in amu) 1,400	1699751-28-4
Fatty acids, C <sub>18</sub> -unsatd., dimers, polymers with 1-docosanol and trimethylenediamine, minimum number average molecular weight (in amu) 1,400	1699751-29-5
Fatty acids, C <sub>18</sub> -unsatd., dimers, polymers with 1-docosanol, hexamethylenediamine and neopentyl glycol, minimum number average molecular weight (in amu) 1,400	1699751-31-9
Fatty acids, C <sub>18</sub> -unsatd., dimers, polymers with docosanoic acid, 1,3-propanediol and sorbitol, minimum number average molecular weight (in amu) 1,400	1685271-04-8
Fatty acids, rape-oil, triesters with polyethylene glycol ether with glycerol (3:1); minimum number average molecular weight (in amu), 1800	688045-21-8
Fatty acids, tall-oil, ethoxylated propoxylated, minimum number average molecular weight (in amu), 2,009	67784-86-5
Formaldehyde, polymer with α-[bis(1-phenylethyl)phenyl]-ω-hydroxypoly(oxy-1,2-ethanediyl), number average molecular weight (in amu), 1,803	157291-93-5
Formaldehyde, polymer with 1,3-benzenediol, ethers with polyethylene glycol mono-Me ether, minimum number average molecular weight (in amu) 1,000,000	1998118-32-3
Formaldehyde, polymer with 1,3-benzenediol, 2-methyloxirane and oxirane, ethers with polyethylene glycol mono-Me ether, minimum number average molecular weight (in amu) 1,000,000	1998118-31-2
Formaldehyde, polymer with 2-methyloxirane and 4-nonylphenol, minimum number average molecular weight (in amu), 4,000	37523-33-4
Formaldehyde, reaction products with melamine, minimum number average molecular weight (in amu), 10000	94645-56-4
Formaldehyde, reaction products with melamine and methanol, minimum number average molecular weight (in amu), 10000	94645-53-1
Fumaric acid-isophthalic acid-styrene-ethylene/propylene glycol copolymer, minimum average molecular weight (in amu), 1 × 10 <sup>18</sup>	None
2,5-Furandione, polymer with ethenylbenzene, hydrolyzed, 3-(dimethylamino)propyl imide, imide with polyethylene-polypropylene glycol 2-aminopropyl me ether, 2,2'-(1,2-diazenediyl)bis[2-methylbutanenitrile]-initiated, minimum number average molecular weight (in amu), 5,816	1062609-13-5
2,5-Furandione, polymer with ethenylbenzene, octyl imide, imide with polyethylene-polypropylene glycol 2-aminopropyl Me ether, minimum number average molecular weight (in amu), 11,000	1812871-29-6
2,5-Furandione, polymer with ethenylbenzene, reaction products with polyethylene-polypropylene glycol 2-aminopropyl Me ether; minimum number average molecular weight (in amu), 14,000	162568-32-3



Polymer	CAS No.
2,5-Furandione, polymer with methoxyethene, butyl ethyl ester, sodium salt, minimum number average molecular weight (in amu), 18,200	1471342-08-1
Hexadecyl acrylate-acrylic acid copolymer, hexadecyl acrylate-butyl acrylate-acrylic acid copolymer, or hexadecyl acrylate-dodecyl acrylate-acrylic acid copolymer, minimum number average molecular weight (in amu), 3,000	None
Hexamethyl disilizane, reaction product with silica, minimum number average molecular weight (in amu), 645,000	68909-20-6
1,6-Hexanediol dimethacrylate polymer, minimum molecular weight (in amu), 100,000	None
$\alpha$ -Hydro- $\omega$ -hydroxy-poly(oxyethylene) C8 alkyl ether citrates, poly(oxyethylene) content is 4-12 moles, minimum number average molecular weight (in amu) 1,300	330977-00-9
$\alpha$ -Hydro- $\omega$ -hydroxy-poly(oxyethylene) C10-C16-alkyl ether citrates, poly(oxyethylene) content is 4-12 moles, minimum number average molecular weight (in amu) 1,100	330985-58-5
$\alpha$ -Hydro- $\omega$ -hydroxy-poly(oxyethylene) C16-C18-alkyl ether citrates, poly(oxyethylene) content is 4-12 moles, minimum number average molecular weight (in amu) 1,300	330985-61-0
$\alpha$ -Hydro- $\omega$ -hydroxypoly(oxyethylene), minimum number average molecular weight (in amu), 17,000	25322-68-3
$\alpha$ -Hydro- $\omega$ -hydroxypoly(oxyethylene)poly (oxypropylene) poly(oxyethylene) block copolymer; the minimum poly(oxypropylene) content is 27 moles and the minimum molecular weight (in amu) is 1,900	None
$\alpha$ -Hydro- $\omega$ -hydroxypoly(oxypropylene); minimum molecular weight (in amu) 2,000	None
12-Hydroxystearic acid-polyethylene glycol copolymer, minimum number average molecular weight (in amu), 3,690	70142-34-6
Isodecyl alcohol ethoxylated (2-8 moles) polymer with chloromethyl oxirane, minimum number average molecular weight (in amu) 2,500	None
Lauryl methacrylate-1,6-hexanediol dimethacrylate copolymer, minimum molecular weight (in amu), 100,000	None
Lignosulfonic acid, calcium, comp. with 1,6 hexanediamine polymer with guanidine hydrochloride (1:1), minimum number average molecular weight (in amu); 4,500 daltons	1905409-74-6
Maleic acid-butadiene copolymer	None
Maleic acid monobutyl ester-vinyl methyl ether copolymer, minimum average molecular weight (in amu), 52,000	25119-68-0
Maleic acid monoethyl ester-vinyl methyl ether copolymer, minimum average molecular weight (in amu), 46,000	25087-06-3
Maleic acid monoisopropyl ester-vinyl methyl ether copolymer, minimum average molecular weight (in amu), 49,000	31307-95-6

Polymer	CAS No.
Maleic anhydride-diisobutylene copolymer, sodium salt, minimum number average molecular weight (in amu) 5,0007–18,000	37199–81–8
Maleic anhydride-methylstyrene copolymer sodium salt, minimum number average molecular weight (in amu), 15,000	60092–15–1
Maleic anhydride-methyl vinyl ether, copolymer, average molecular weight (in amu), 250,000	None
Maltodextrin-vinyl pyrrolidinone copolymer, minimum number average molecular weight (in amu), 21,000	1323833–56–2
Methacrylic acid-methyl methacrylate-polyethylene glycol methyl ether methacrylate copolymer, minimum number average molecular weight (in amu), 3,700	100934–04–1
Methacrylic acid-methyl methacrylate-polyethylene glycol monomethyl ether methacrylate graft copolymer, minimum number average molecular weight (in amu), 1,800	111740–36–4
Methacrylic copolymer, minimum number average molecular weight (in amu), 15,000	63150–03–8
Methyl methacrylate-methacrylic acid-monomethoxypolyethylene glycol methacrylate copolymer,) minimum number average molecular weight (in amu), 2,730	119724–54–8
Methyl methacrylate-2-sulfoethyl methacrylate-dimethylaminoethylmethacrylate-glycidyl methacrylate-styrene-2-ethylhexyl acrylate graft copolymer, minimum average molecular weight (in amu), 9,600	None
2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid monosodium salt polymer with 2-propenoic acid, 2-methyl-, C12-16 alkyl esters, minimum number average molecular weight (in amu), 10,000	2115702–24–2
Methyl vinyl ether-maleic acid copolymer), minimum number average molecular weight (in amu), 75,000	25153–40–6
Methyl vinyl ether-maleic acid copolymer, calcium sodium salt, minimum number average molecular weight (in amu), 900,000	62386–95–2
Monophosphate ester of the block copolymer $\alpha$ -hydro- $\omega$ -hydroxypoly(oxyethylene) poly(oxypropylene) poly(oxyethylene); the poly(oxypropylene) content averages 37–41 moles, average molecular weight (in amu), 8,000	None
$\alpha$ -(p-Nonylphenyl)- $\omega$ -hydroxypoly(oxyethylene) mixture of dihydrogen phosphate and monohydrogen phosphate esters and the corresponding ammonium, calcium, magnesium, monoethanolamine, potassium, sodium, and zinc salts of the phosphate esters; the nonyl group is a propylene trimer isomer and the poly(oxyethylene) content averages 30 moles	None
$\alpha$ -(p-Nonylphenyl)- $\omega$ -hydroxypoly(oxyethylene) sulfate, and its ammonium, calcium, magnesium, monoethanolamine, potassium, sodium, and zinc salts; the nonyl group is a propylene trimer isomer and the poly(oxyethylene) content averages 30-90 moles of ethylene	None

Polymer	CAS No.
oxide	
$\alpha$ -( <i>p</i> -Nonylphenyl)- $\omega$ -hydroxypoly(oxypropylene) block polymer with poly(oxyethylene); polyoxypropylene content of 10–60 moles; polyoxyethylene content of 10–80 moles; molecular weight (in amu), 1,200–7,100.	None
$\alpha$ -( <i>p</i> -Nonylphenyl)poly(oxypropylene) block polymer with poly(oxyethylene); poly oxyethylene content 30 to 90 moles; minimum number average molecular weight (in amu), 1,889	37251–69–7
Octadecanoic acid, 12-hydroxy-, homopolymer, ester with $\alpha$ , $\alpha'$ , $\alpha''$ -1,2,3-propanetriyltris[ $\omega$ -hydroxypoly(oxy-1,2-ethanediyl)], minimum number average molecular weight (in amu), 5,000	1939051–18–9
Octadecanoic acid, 12-Hydroxy-, Homopolymer Ester with 2-Methylloxirane Polymer with Oxirane monobutyl Ether, minimum number average molecular weight (in amu), 4,500	1373125–59–7
Octadecanoic acid, 12-hydroxy-, homopolymer, octadecanoate minimum number average molecular weight (in amu), 1,370	58128–22–6)
$\alpha$ -cis-9-Octadecenyl- $\omega$ -hydroxypoly(oxyethylene); the octadecenyl group is derived from oleyl alcohol and the poly(oxyethylene) content averages 20 moles	None
Octadecyl acrylate-acrylic acid copolymer, octadecyl acrylate-dodecyl acrylate-acrylic acid copolymer, octadecyl methacrylate-butyl acrylate-acrylic acid copolymer, octadecyl methacrylate-hexyl acrylate-acrylic acid copolymer, octadecyl methacrylate-dodecyl acrylate-acrylic acid copolymer, or octadecyl methacrylate-dodecyl methacrylate-acrylic acid copolymer, minimum number average molecular weight (in amu) 3,000	None
Oleic acid diester of $\alpha$ -hydro- $\omega$ -hydroxypoly(oxyethylene); the poly(oxyethylene), average molecular weight (in amu), 2,300	None
2-oxepanone, homopolymer, minimum number average molecular weight (in amu) 52,000	24980–41–4
Oxirane, decyl-, reaction products with polyethylene-polypropylene glycol ether with trimethylolpropane (3:1)	903890–89–1
Oxirane, hexadecyl-, reaction products with polyethylene-polypropylene glycol ether with trimethylolpropane (3:1)	893427–80–0
Oxirane, 2-methyl-, polymer with oxirane, dimethyl ether, minimum number average molecular weight (in amu), 2,800	61419–46–3
Oxirane, 2-methyl-, polymer with oxirane, ether with D-glucitol (6:1), minimum number average molecular weight (in amu) of 10,000	56449–05–9
Oxirane, 2-methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1), minimum number average molecular weight (in amu) of 6,000	9082–00–2
Oxirane, methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), reaction products with tetradecyloxirane	903890–90–4
Oxirane, methyl-, polymer with oxirane, mono[2-(2-butoxyethoxy) ethyl] ether, minimum number average molecular weight (in amu), 2,500	85637–75–8

Polymer	CAS No.
Oxirane, methyl-, polymer with Oxirane, Monobutyl Ether	9038-95-3
Oxirane, 2-methyl-, polymer with oxirane, mono[2-[2-(2-methoxymethylethoxy) methylethoxy]methylether] ether, minimum number average molecular weight (in amu), 1400 daltons	CAS Reg. No. 2112825-11-1.
Oxirane, 2-methyl-, polymer with oxirane, minimum number average molecular weight (in amu), 1,100	9003-11-6
Oxirane, 2-methyl-, polymer with oxirane, mono [2-[2-(2-butoxymethylethoxy)methylethoxy]methylethyl] ether, minimum number average molecular weight (in amu), 3,000	926031-36-9
Oxirane, 2-methyl, polymer with oxirane, hydrogen sulfate, ammonium salt; average molecular weight (in amu), 1800	57608-14-7
Oxirane, 2-methyl, polymer with oxirane, hydrogen sulfate, potassium salt; average molecular weight (in amu), 2100	1838191-48-2
Oxirane, 2-methyl-, polymer with oxirane, mono-(9Z)-9-octadecanoate, methyl ether, minimum number average molecular weight (in amu), 1,200	72283-36-4
Oxirane, 2-methyl-, polymer with oxirane, di-(9Z)-9-octadecenoate, minimum number average molecular weight (in amu), 2500	67167-17-3
Oxirane, 2-(phenoxyethyl)-, polymer with oxirane, ether with 2,2',2"-nitrilotris[ethanol] (3:1), diblock, minimum number average molecular weight (in amu), 5,300	2307555-89-9
Oxirane, 2-(phenoxyethyl)-, polymer with oxirane, monobutyl ether, block, minimum number average molecular weight (in amu), 2300 Daltons	CAS Reg. No. 1010819-15-4
Oxirane, phenyl, polymer with oxirane, monoethyl ether, minimum average molecular weight (in amu) 1,200	83653-00-3
Polyamide polymer derived from sebacic acid, vegetable oil acids with or without dimerization, terephthalic acid and/or ethylenediamine	None
Polyethylene glycol-polyisobutenyl anhydride-tall oil fatty acid copolymer, minimum number average molecular weight (in amu), 2,960	68650-28-2
Polyethylene, oxidized, minimum number average molecular weight (in amu), 1,200	None
Polyglycerol polyricinoleate; minimum number average molecular weight (in amu), 2,500	29894-35-7
Polymers produced by the reaction of either 1,6-hexanediisocyanate; 2,4,4-trimethyl-1,6-hexanediisocyanate; 5-isocyanato-1-(isocyanatomethyl)-fxsp0;1,3,3-trimethylcyclohexane (isophoronediiisocyanate); 4,4'-methylene-bis-1,1'-cyclohexanediisocyanate; 4,4'-methylene-bis-1,1' benzyldiisocyanate; or 1,3-bis-(2-isocyanatopropan-2-yl)benzene with polyethylene glycol and end-capped with one or a mixture of more than one of octanol, decanol, dodecanol, tetradecanol, hexadecanol, octadecanol, and octadec-9-enol or polyethyleneglycol ethers of octanol, decanol,	1161844-26-3, 1161844-30-9, 1161844-43-4, 1161844-51-4, 1161844-53-6, 693252-31-2, 162993-60-4, 630102-86-2

Polymer	CAS No.
dodecanol, tetradecanol, hexadecanol, octadecanol, and octadec-9-enol, minimum number average molecular weight (in amu), 20,000	
Polymethylene polyphenylisocyanate, polymer with ethylene diamine, diethylene triamine and sebacoyl chloride, cross-linked; minimum number average molecular weight (in amu), 100,000	None
Polyoxyalkylated glycerol fatty acid esters; the mono-, di-, or triglyceride mixtures of C <sub>8</sub> through C <sub>22</sub> , primarily C <sub>8</sub> through C <sub>18</sub> saturated and unsaturated, fatty acids containing up to 15% water by weight reacted with a minimum of three moles of either ethylene oxide or propylene oxide; the resulting polyoxyalkylated glycerol ester polymer minimum number average molecular weight (in amu), 1,500	61791-23-9, 68201-46-7, 68440-49-3, 68458-88-8, 68553-06-0, 68606-12-2, 68648-38-4, 70377-91-2, 70914-02-2, 72245-12-6, 72698-41-3, 180254-52-8, 248273-72-5, 308063-50-5, 952722-33-7
Polyoxyalkylated sorbitan fatty acid esters with C <sub>6</sub> through C <sub>22</sub> aliphatic alkanolic and/or alkenolic fatty acids, branched or linear, the resulting polyoxyalkylene sorbitan esters minimum number average molecular weight (in amu), 1,300	81776-11-6, 87090-31-1, 88895-72-1, 103171-31-9, 161026-53-5, 1472644-80-6, 1472644-81-7, 1472644-84-0, 1472644-85-1, 1472644-87-3, 1472644-88-4, 1472654-83-3, 1472655-32-5, 1472661-05-4, 1472661-17-8, 1472663-59-4, 1472663-64-1, 1472663-66-3, 1472663-92-5, 1472668-03-3
Polyoxyalkylated trimethylpropanes with 20 to 80 moles of ethylene and/or propylene oxide, fatty acid esters with C <sub>8</sub> through C <sub>22</sub> aliphatic alkanolic and/or alkenolic fatty acids, branched or linear; minimum number average molecular weight (in amu), 3,000	25765-36-0; 29860-47-7; 37339-03-0; 52624-57-4; 58090-24-7; 63964-38-5; 72939-62-9; 74521-14-5; 75300-70-8; 75300-90-2; 84271-03-4; 84271-04-5; 86850-92-2; 107120-02-5; 133331-01-8; 137587-60-1; 149797-40-0; 149797-41-1; 150695-97-9; 152130-24-0; 163349-94-8; 163349-95-9; 163349-96-0; 163349-97-1; 163349-98-2; 165467-70-9; 183619-46-7; 183619-50-3; 185260-01-9; 202606-04-0; 210420-84-1; 233660-70-3; 263011-96-7; 283602-94-8; 701980-40-7; 872038-58-9; 875709-44-7; 875709-45-8; 875709-46-9; 875709-47-0; 879898-63-2; 910038-01-6; 1190748-04-9; 1225384-02-0; 1428944-41-5; 1446498-15-2.

Polymer	CAS No.
Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy-, polymer with 1, 1'-methylene-bis-[4-isocyanatocyclohexane], minimum number average molecular weight (in amu), 1800	39444-87-6
Poly(oxy-1,2-ethanediyl)- $\alpha$ -hydro- $\omega$ -hydroxy-, polymer with poly(isocyanatoalkyl) benzene, alkylol-blocked, number average molecular weight (Mn), 18,721	None
Polyoxyethylated primary amine (C <sub>14</sub> -C <sub>18</sub> ); the fatty amine is derived from an animal source and contains 3% water; the poly(oxyethylene) content averages 20 moles	None
Polyoxyethylated sorbitol fatty acid esters; the polyoxyethylated sorbitol solution containing 15% water is reacted with fatty acids limited to C <sub>12</sub> , C <sub>14</sub> , C <sub>16</sub> , and C <sub>18</sub> , containing minor amounts of associated fatty acids; the poly(oxyethylene) content averages 30 moles.	None
Polyoxyethylated sorbitol fatty acid esters; the sorbitol solution containing up to 15% water is reacted with 20-50 moles of ethylene oxide and aliphatic alkanolic and/or alkenolic fatty acids C <sub>8</sub> through C <sub>22</sub> with minor amounts of associated fatty acids; the resulting polyoxyethylene sorbitol ester having a minimum molecular weight (in amu), 1,300	None
Poly(oxyethylene/oxypropylene) monoalkyl (C <sub>6</sub> -C <sub>10</sub> ) ether sodium fumarate adduct, minimum number average molecular weight (in amu), 1,900	102900-02-7
Poly[oxy(methyl-1,2-ethanediyl)], $\alpha$ -[(9Z)-1-oxo-9-octadecen-1-yl]- $\omega$ -[[[(9Z)-1-oxo-9-octadecen-1-yl]oxy]-, minimum number average molecular weight (in amu) 2,300	26571-49-3
Polyoxymethylene copolymer, minimum number average molecular weight (in amu), 15,000	None
Poly(oxypropylene) block polymer with poly(oxyethylene), molecular weight (in amu), 1,800-16,000	None
Poly(phenylhexylurea), cross-linked, minimum average molecular weight (in amu), 36,000	None
Polypropylene	9003-07-0
Polystyrene, minimum number average molecular weight (in amu), 50,000	9003-53-6
Polytetrafluoroethylene	9002-84-0
Polyvinyl acetate, copolymer with maleic anhydride, partially hydrolyzed, sodium salt, minimum number average molecular weight (in amu), 53,000	None
Polyvinyl acetate, minimum molecular weight (in amu), 2,000	None
Polyvinyl acetate-polyvinyl alcohol copolymer, minimum number average molecular weight (in amu), 50,000	25213-24-5
Polyvinyl acetate-polyvinyl alcohol copolymer, minimum number average molecular weight (in amu), 14,000	25213-24-5
Polyvinyl alcohol	9002-89-5

Polymer	CAS No.
Polyvinyl chloride	None
Polyvinyl chloride, minimum number average molecular weight (in amu), 29,000	9002-86-2
Polyvinylpyrrolidone butylated polymer, minimum number average molecular weight (in amu), 9,500	26160-96-3
Poly(vinylpyrrolidone), minimum number average molecular weight (in amu), 4,000	9003-39-8
Poly(vinylpyrrolidone-1-eicosene), minimum average molecular weight (in amu), 3,000	28211-18-9
Poly(vinylpyrrolidone-1-hexadecene), minimum average molecular weight (in amu), 4,700	63231-81-2
Propanesulfonic acid, 2-methyl-2-[(1-oxo-2-propen-1-y1)amino]-, homopolymer, sodium salt, minimum number average molecular weight (in amu) 14,000	55141-01-0
1-propanesulfonic acid, 2-methyl-2-[(1-oxo-2-propenyl)amino]-, monosodium salt, polymer with ethenol and ethenyl acetate, minimum number average molecular weight (in amu) 50,000	107568-12-7
1-Propanesulfonic acid, 2-methyl-2-[(1-oxo-2-propen-1-y1)amino]-, sodium salt (1:1), homopolymer, minimum number average molecular weight (in amu) 14,000	35641-59-9
Propanoic acid, 3-hydroxy-(hydroxymethyl)-2-methyl-, polymer with 2-amino-2-methyl-1-propanol, $\alpha$ -hydro- $\omega$ -hydroxypoly[oxy(methyl-1,2-ethanediyl)], 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane and methyloxirane polymer with oxirane ether with 4,4'-(1-methylethylidene)bis[phenol] (2:1), polyethylene-polypropylene glycol 2-aminopropyl Me ether-blocked, compds. with 2-amino-2-methyl-1-propanol, minimum number average molecular weight (in amu), 6,800	515152-49-5
2-Propene-1-sulfonic acid sodium salt, polymer with ethenol and ethenyl acetate, number average molecular weight (in amu) 6,000-12,000	None
2-Propenoic acid, butyl ester, polymer with 1,6-diisocyanatohexane, N-(hydroxymethyl)-2-methyl-2-propenamamide and 2-propenenitrile, minimum number average molecular weight (in amu), 100,000	1469998-09-1
2-Propenoic acid, butyl ester, polymer with ethenyl acetate and sodium ethenesulfonate, minimum number average molecular weight (in amu), 20,500	66573-43-1
2-propenoic acid, butyl ester, polymer with ethenylbenzene, methyl 2-methyl-2-propenoate and 2-propenoic acid (in amu), 1900	27306-39-4
2-Propenoic acid, butyl ester, polymer with ethyl 2-propenoate and N-(hydroxymethyl)-2-propenamamide, minimum number average molecular weight (in amu), 30,000	33438-19-6
2-Propenoic acid, 2-ethylhexyl ester, polymer with ethenylbenzene 14,000 daltons	25153-46-2

Polymer	CAS No.
2-Propenoic acid, 2-ethylhexyl ester, polymer with ethenylbenzene and 2-methylpropyl 2-methyl-2-propenoate, minimum number average molecular weight (in amu), 18,000	68240-06-2
2-Propenoic acid, homopolymer, ester with $\alpha$ -methyl- $\omega$ -hydroxypoly(oxy-1,2-ethanediyl) and $\alpha$ -[2,4,6-tris(1-phenylethyl)phenyl]- $\omega$ -hydroxypoly(oxy-1,2-ethanediyl), graft, sodium salt, minimum number average molecular weight (in amu), 4,000	2221936-17-8
2-propenoic acid, homopolymer, ester with $\alpha$ -[2,4,6-tris(1-phenylethyl)phenyl]- $\omega$ -hydroxypoly(oxy-1,2-ethanediyl), compd. with 2,2,2"-nitrilotris[ethanol], minimum number average molecular weight (in amu), 10,000	1477613-46-9
2-Propenoic acid, 2-hydroxyethyl ester, polymer with $\alpha$ -[4-(ethenoxy)butyl]- $\omega$ -hydroxypoly(oxy-1,2-ethanediyl), minimum number average molecular weight (in amu), 17,000	1007234-89-0
2-Propenoic acid, methyl-, polymer with butyl 2-propenoate and methyl 2-methyl-2-propenoate compd. with 2-amino-2-methyl-1-propanol, minimum number average molecular weight (in amu), 22,700	1203962-19-9
[2-propenoic acid, 2-methyl-, C12-16-alkyl esters, telomers with 1-dodecanethiol, polyethylene-polypropylene glycol ether with propylene glycol monomethacrylate (1:1), and styrene 2,2'-(1,2-diazenediyl)bis[2-methylbutanenitrile]-initiated, minimum number average molecular weight (in amu), 4,000	950207-35-9
2-propenoic acid, 2-methyl-, dodecyl ester, polymer with 1-ethenyl-2-pyrrolidinone and $\alpha$ -(2-methyl-1-oxo-2-propen-1-yl)- $\omega$ -methoxypoly(oxy-1,2-ethanediyl), minimum number average molecular weight (in amu), 20,600	193743-10-1
2-Propenoic acid, methyl ester, polymer with ethene and 2,5-furandione, minimum number average molecular weight (in amu), 10,500	88450-35-5
2-Propenoic acid, methyl ester, polymer with ethenyl acetate, hydrolyzed, sodium salts	886993-11-9
2-Propenoic acid, 2-methyl-, 2-ethylhexyl ester, telomer with 1-dodecanethiol, ethenylbenzene and 2-methyloxirane polymer with oxirane monoether with 1,2-propanediol mono(2-methyl-2-propenoate), hydrogen 2-sulfobutanedioate, sodium salt, 2, 2'-(1,2-diazenediyl)bis[2-methylpropanenitrile]-initiated, minimum number average molecular weight (in amu), 1,200	1283712-50-4
2-Propenoic acid, 2-methyl-, 2-methylpropyl ester, homopolymer, minimum number average molecular weight (in amu), 55,000	9011-15-8
2-Propenoic acid, 2-methyl-, 2-oxiranylmethyl ester, polymer with butyl 2-propenoate, ethenylbenzene and 2-ethylhexyl 2-propenoate, minimum number average molecular weight (in amu), 3,600	58499-26-6
2-propenoic acid, 2-methyl-, 2-oxiranylmethyl ester, polymer with ethene, ethenyl acetate, ethenyltrimethoxysilane and sodium	518057-54-0



Polymer	CAS No.
ethenesulfonate (1:1), minimum number average molecular weight (in amu), 20,000	
2-Propenoic acid, 2-methyl-, phenylmethyl ester, polymer with 2-propenoic acid, peroxydisulfuric acid ([HO]S(O) <sub>2</sub> ]2O <sub>2</sub> ) sodium salt (1:2)-initiated, compounds with diethanolamine, minimum number average molecular weight (in amu), 2,000	1574486-33-1
2-Propenoic acid, 2-methyl-, phenylmethyl ester, polymer with 2-propenoic acid and sodium 2-methyl-2-[(1-oxo-2-propen-1-yl)amino]-1-propanesulfonate (1:1), peroxydisulfuric acid ([HO]S(O) <sub>2</sub> ]2O <sub>2</sub> ) sodium salt (1:2)-initiated minimum number average molecular weight >1,000 Daltons; maximum number average molecular weight 10,000 Daltons	CASRN 1246766-57-3
2-Propenoic acid, 2-methyl-, polymer with butyl 2-methyl-2-propenoate, butyl 2-propenoate, N-(1,1-dimethyl-3-oxobutyl)-2-propenamido, ethenylbenzene, 2-ethylhexyl 2-propenoate and methyl 2-methyl-2-propenoate, minimum number average molecular weight (in amu), 7,300	481053-27-4
2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate and ethenylbenzene, minimum number average molecular weight (in amu), 17,000	25036-16-2
2-Propenoic acid, 2-Methyl-, Polymer with Butyl 2-Propenoate, Methyl 2-Methyl-2-Propenoate, Methyl 2-Propenoate and 2-Propenoic Acid, graft, Compound with 2-Amino-2-Methyl-1-Propanol	153163-36-1
2-Propenoic Acid, 2-Methyl-, Polymer with Ethenylbenzene, 2-Ethylhexyl 2-Propenoate, 2-Hydroxyethyl 2-Propenoate, N-(Hydroxymethyl) -2-Methyl-2-Propenamido and Methyl 2-Methyl-2-Propenoate, Ammonium Salt	146753-99-3
2-Propenoic acid, 2-methyl-, polymers with Bu acrylate, Et acrylate, Me methacrylate and polyethylene glycol methacrylate C <sub>16-18</sub> -alkyl ethers, minimum number average molecular weight (in amu), 13,000	890051-63-5
2-propenoic acid, 2-methyl-, polymer with 2,5-furandione and 2,4,4-trimethyl-1-pentene, potassium salt, with a minimum number average molecular weight (in amu) of 6,000	1802325-28-5
2-propenoic acid, 2-methyl-, polymers with tert-Bu acrylate, Me methacrylate, polyethylene glycol methacrylate C <sub>16</sub> -C <sub>18</sub> -alkyl ethers and vinylpyrrolidone, tert-Bu 2-ethylhexaneperoxoate-initiated, compounds with 2-amino-2-methyl-1-propanol, minimum number average molecular weight (in amu), 2,600	1515872-09-9
2-Propenoic acid, 2-methyl-, telomer with 2-ethylhexyl 2-propenoate, 2-propanol and sodium 2-methyl-2-[(1-oxo-2-propen-1-yl) amino]-1-propanesulfonate (1:1), sodium salt, minimum number average molecular weight (in amu): 2,900	1260001-65-7
2-Propenoic acid, monoester with 1,2-propanediol, polymer with α-[4-(ethenyloxy) butyl]-ω-hydroxypoly (oxy-1,2-ethanediyl) and 2,5-furandione, minimum number average molecular weight (in amu), 25,000	955015-23-3

Polymer	CAS No.
2-propenoic acid polymer, with 1,3-butadiene and ethenylbenzene, minimum number average molecular weight (in amu), 9400	25085-39-6
2-Propenoic acid, polymer with butyl 2-propenoate, ethenylbenzene and (1-methylethenyl) benzene, ammonium salt, minimum number average molecular weight (in amu), 2,300	360564-31-4
2-Propenoic acid, polymer with ethene, ethenyl acetate and sodium ethenesulfonate, minimum number average molecular weight (in amu) 5,600	429691-44-1
2-Propenoic acid, polymer with ethenyl acetate, ethenylbenzene, 2-ethylhexyl 2-propenoate and ethyl 2-propenoate, minimum number average molecular weight (50,149 Daltons)	85075-52-1
2-Propenoic acid, polymer with ethenylbenzene and (1-methylethenyl)benzene, minimum number average molecular weight (in amu), 2,000	52831-04-6
2-Propenoic acid, polymer with ethenylbenzene and (1-methylethenyl) benzene, sodium salt, minimum number average molecular weight (in amu), 2,800	129811-24-1
2-Propenoic acid, polymer with $\alpha$ -[4-(ethenoxy) butyl]- $\omega$ -hydroxypoly (oxy-1,2-ethanedyl) and 2,5-furandione, sodium salt, minimum number average molecular weight (in amu), 25,000	251479-97-7
2-Propenoic acid, polymer with $\alpha$ -[4-(ethenoxy) butyl]- $\omega$ -hydroxypoly (oxy-1,2-ethanedyl) and 1,2-propanediol mono-2-propenoate, potassium sodium salt, minimum number average molecular weight (in amu), 16,000	518026-64-7
2-Propenoic acid, polymer with $\alpha$ -[4-(ethenoxy) butyl]- $\omega$ -hydroxypoly (oxy-1, 2-ethanedyl), sodium salt, minimum number average molecular weight (in amu), 24,000	250591-84-5
2-Propenoic acid, polymer with 2-propenamide, sodium salt, minimum number average molecular weight (in amu), 18,000	25085-02-3
2-Propenoic acid, sodium salt, polymer with 2-propenamide, minimum number average molecular weight (in amu), 18,000	25987-30-8
2-Propenoic, 2-methyl-, polymers with ethyl acrylate and polyethylene glycol methylacrylate C <sub>18-22</sub> alkyl ethers	888969-14-0
2-Propenoic acid, telomer with N-(1,1-dimethylethyl)-2-propenamide, sodium 2-methyl-2-[(1-oxo-2-propen-1-yl)amino]-1-propanesulfonate (1:1) and sodium sulfite (1:1), sodium salt; number average of molecular weight (in amu), 2,871	115035-53-5
2-Pyrrolidone, 1-ethenyl-, polymer with ethenol, minimum number average molecular weight (in amu), 23,000	26008-54-8
Silane, dichloromethyl- reaction product with silica minimum number average molecular weight (in amu), 3,340,000	68611-44-9
Silane, trimethoxy[3-(oxiranylmethoxy)propyl]-, hydrolysis products with silica, minimum number average molecular weight (in amu), 640,000	68584-82-7
Silicic acid, sodium salt, reaction products with chlorotrimethylsilane	None

Polymer	CAS No.
and iso-propyl alcohol, reaction with poly(oxypropylene)-poly(oxyethylene) glycol, minimum number average molecular weight (in amu), 75,000	
Siloxanes and silicones, di-Me, Me hydrogen, reaction products with vinyl group-terminated di-Me siloxanes, minimum number average molecular weight (in amu) 10,600"	156065-02-0
Sodium polyflavinoidsulfonate, consisting chiefly of the copolymer of catechin and leucocyanidin	None
Soybean oil, ethoxylated; the poly(oxyethylene) content averages 10 moles or greater	61791-23-9
Starch, oxidized, polymers with Bu acrylate, tert-Bu acrylate and styrene, minimum number average molecular weight (in amu), 10,000	204142-80-3
Stearyl methacrylate-1,6-hexanediol dimethacrylate copolymer, minimum molecular weight (in amu), 100,000	None
Styrene, copolymers with acrylic acid and/or methacrylic acid, with none and/or one or more of the following monomers or polymers: acrylamidopropyl methyl sulfonic acid, methallyl sulfonic acid, 3-sulfopropyl acrylate, 3-sulfopropyl methacrylate, hydroxypropyl methacrylate, hydroxypropyl acrylate, hydroxyethyl methacrylate, hydroxyethyl acrylate, lauryl methacrylate, and/or poly(oxy-1,2-ethanediyl), $\alpha$ -(2-methyl-1-oxo-2-propenyl)- $\omega$ -methoxy-; and its sodium, potassium, ammonium, monoethanolamine, and triethanolamine salts; the resulting polymer having a minimum number average molecular weight (in amu), 1200	None.
Styrene-ethylene-propylene block copolymer, minimum number average molecular weight (in amu), 125,000	108388-87-0
Styrene, 2-ethylhexyl acrylate, butyl acrylate copolymer, minimum number average molecular weight (in amu), 4,200	30795-23-4
Styrene-2-ethylhexyl acrylate-glycidyl methacrylate-2-acrylamido-2-methylpropanesulfonic acid graft copolymer, minimum number average molecular weight (in amu), 12,500	None
Styrene-maleic anhydride copolymer	None
Styrene-maleic anhydride copolymer, ester derivative	None
Styrene-maleic anhydride ethyl amine salt copolymer, minimum number average molecular weight (in amu), 1,700	None
Tall oil, polymer with polyethylene glycol and succinic anhydride monopolyisobutylene derivs., minimum number average molecular weight (in amu), 1,200	1398573-80-2
Tamarind seed gum, 2-hydroxypropyl ether polymer, minimum number average molecular weight (in amu), 10,000	68551-04-2
Tetradecyl acrylate-acrylic acid copolymer, minimum number average molecular weight (in amu), 3,000	None
Tetraethoxysilane, polymer with hexamethyldisiloxane, minimum number average molecular weight (in amu), 2,500	104133-09-7

Polymer	CAS No.
Tetraethoxysilane, polymer with hexamethyldisiloxane, minimum number average molecular weight (in amu), 6,500	104133-09-7
$\alpha$ -[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 a range of 30-70 moles of ethylene oxide	9036-19-5 9002-93-1
$\alpha$ -[p-(1,1,3,3-Tetramethylbutyl)phenyl] poly(oxypropylene) block polymer with poly(oxyethylene); the poly(oxypropylene) content averages 25 moles, the poly(oxyethylene) content averages 40 moles, the molecular weight (in amu) averages 3,400	None
1,3,5-triazine-2,4,6-triamine, polymer with formaldehyde, methylated, minimum number average molecular weight (in amu), 10000	68002-20-0
1,3,5-triazine-2,4,6-triamine, polymer with formaldehyde, minimum number average molecular weight (in amu), 10000	9003-08-1
$\alpha$ -[2,4,6-Tris[1-(phenyl)ethyl]phenyl]- $\omega$ -hydroxy poly(oxyethylene) poly(oxypropylene) copolymer, the poly(oxypropylene) content averages 2-8 moles, the poly(oxyethylene) content averages 16-30moles, average molecular weight (in amu), 1,500	None
Alpha-[2,4,6-Tris[1-(phenyl)ethyl]phenyl]-Omega-hydroxy poly(oxyethylene) poly(oxypropylene) copolymer, the poly(oxypropylene) content averages 2-8 moles, the poly(oxyethylene) content averages 16-60 moles. Minimum number-average molecular weight (in amu) of 1,500	70880-56-7
Urea-formaldehyde copolymer, minimum average molecular weight (in amu), 30,000	9011-05-6
Vinyl acetate-allyl acetate-monomethyl maleate copolymer, minimum average molecular weight (in amu), 20,000	None
Vinyl acetate-ethylene copolymer, minimum number average molecular weight (in amu), 69,000	24937-78-8
Vinyl acetate polymer with none and/or one or more of the following monomers: Ethylene, propylene, N-methyl acrylamide, acrylamide, monoethyl maleate, diethyl maleate, monoethyl maleate, dioctyl maleate, maleic anhydride, maleic acid, octyl acrylate, butyl acrylate, ethyl acrylate, methyl acrylate, acrylic acid, octyl methacrylate, butyl methacrylate, ethyl methacrylate, methyl methacrylate, methacrylic acid, carboxyethyl acrylate, and diallyl phthalate; and their corresponding sodium, potassium, ammonium, isopropylamine, triethylamine, monoethanolamine and/or triethanolamine salts; the resulting polymer having a minimum number average molecular weight (in amu), 1,200	None
Vinyl acetate-vinyl alcohol-alkyl lactone copolymer, minimum number average molecular weight (in amu), 40,000; minimum viscosity of 18 centipoise	None
Vinyl alcohol-disodium itaconate copolymer, minimum average molecular weight (in amu), 50,290	None

Polymer	CAS No.
Vinyl alcohol-vinyl acetate copolymer, benzaldehyde-o-sodium sulfonate condensate, minimum number average molecular weight (in amu), 20,000	None
Vinyl alcohol-vinyl acetate-monomethyl maleate, sodium salt-maleic acid, disodium salt-γ-butyrolactone acetic acid, sodium salt copolymer, minimum number average molecular weight (in amu), 20,000	None
Vinyl chloride-vinyl acetate copolymers	None
Vinyl pyrrolidone-acrylic acid copolymer, minimum number average molecular weight (in amu), 6,000	28062-44-4
Vinyl pyrrolidone-dimethylaminoethylmethacrylate copolymer, minimum number average molecular weight (in amu), 20,000	30581-59-0
Vinyl pyrrolidone-styrene copolymer	25086-29-7

[67 FR 36528, May 24, 2002]

**Editorial Note:** For FEDERAL REGISTER citations affecting § 180.960, see the List of CFR Sections Affected, which appears in the Finding Aids section of the printed volume and at [www.govinfo.gov](http://www.govinfo.gov).