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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  |
| 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  |
| 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  |
| Acrylamide-Sodium Acrylamidomethylpropanesulfonate Copolymer, minimum number average molecular weight (amu), 1,000,000 daltons.   | 38193-60-1 |
| Acrylic acid-benzyl methacrylate-1-propanesulfonic acid, 2-methyl-2-[(1-oxo-2-propenyl)amino]-, monosodium salt, minimum number average molecular weight (in amu), 1500               | 1152297-4  |
| 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   | 97953-25-8 |

| Polymer   | CAS No   |
|---|--|
| weight (in amu), 4,500  |  |
| 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  |
| 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 <u>21 CFR 180.22</u> , 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  |
| Alkoxyated C8-C18 Saturated and Unsaturated Alcohol and Adipic Acid, (AASUAA), minimum number average molecular weight (in amu), 1,300  | 397247-05;<br>227755-70;<br>397247-06;<br>1065234-8;<br>and<br>497157-72;  |
| $\alpha$ -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;<br>9004-95-9;<br>9004-98-2;<br>9005-00-9;<br>9035-85-2;<br>9038-29-3;<br>9038-43-1;<br>9040-05-5;<br>9043-30-5;<br>9087-53-0;<br>25190-05-0;<br>24938-91-8;<br>25231-21-4;<br>251553-55;<br>26183-52-8;<br>26468-86-0 |

| Polymer | CAS No     |
|---------|------------|
|         | 26636-39-5 |
|         | 26636-40-8 |
|         | 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 |

| Polymer | CAS No     |
|---------|------------|
|         | 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 |

| Polymer | CAS No     |
|---------|------------|
|         | 70750-27-5 |
|         | 70879-83-3 |
|         | 70955-07-6 |
|         | 71011-10-4 |
|         | 71060-57-6 |
|         | 71243-46-4 |
|         | 72066-65-0 |
|         | 72108-90-8 |
|         | 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- |
|         | 103331-86- |
|         | 103657-84- |
|         | 103657-85- |
|         | 103818-93- |
|         | 103819-03- |
|         | 106232-83- |
|         | 111905-54- |
|         | 116810-31- |
|         | 116810-32- |
|         | 116810-33- |
|         | 120313-48- |
|         | 120944-68- |
|         | 121617-09- |
|         | 126646-02- |
|         | 126950-62- |
|         | 127036-24- |
|         | 139626-71- |
|         | 152231-44- |
|         | 154518-36- |
|         | 157627-86- |

| Polymer  | CAS No   |
|--|--|
|  | 157627-88-<br>157707-41-<br>157707-43-<br>159653-49-<br>160875-66-<br>160901-20-<br>160901-09-<br>160901-19-<br>161025-21-<br>161025-22-<br>161133-70-<br>166736-08-<br>169107-21-<br>172588-43-<br>176022-76-<br>196823-11-<br>287935-46-<br>288260-45-<br>303176-75-<br>954108-36-<br>2222805-2-<br>2409830-3- |
| Amines, coco alkyl, ethoxylated, compounds with acrylic acid-Bu acrylate-methylstyrene-styrene polymer, ammonium salts; minimum number average molecular weight (in amu), 2700   | 1186094-7-   |
| 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-   |
| 1,3-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, 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 | None   |
| 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   |

| Polymer   | CAS No                     |
|---|----------------------------|
| 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  | 556055-76-7<br>701908-99-9 |
| Butanedioic acid, 2-methylene-, telomer with sodium phosphinate (1:1), acidified, potassium salt minimum number average molecular weight (in amu), 3800   | 1663489-1-1                |
| 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 (Z)-, monobutyl ester, polymer with methoxyethene, sodium salt, minimum number average molecular weight (in amu), 18,200   | 205193-99-9                |
| 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 | 1147260-6-6                |
| Castor oil, ethoxylated, dioleate, minimum number average molecular weight (in amu), 1260.  | 110531-96-6                |
| Castor oil, ethoxylated, oleate, minimum number average molecular weight (in amu), 1,600  | 220037-02-2                |
| Castor oil, polymer with adipic acid, linoleic acid, oleic acid and ricinoleic acid, minimum number average molecular weight (in amu), 3,500  | 1357486-0-0                |
| Castor oil, polyoxyethylated; the poly(oxyethylene) content averages 5-54 moles   | None                       |
| 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  | 1681043-2-2                |
| 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   | 1681043-3-3                |
| D-Glucitol, polymer with decanedioic acid and 1,3-propanediol, octadecanoate, minimum number average molecular weight (in amu) 1,100  | 1681043-3-3                |
| $\alpha$ -D-Glucopyranoside, $\beta$ -D-fructofuranosyl, polymer with methyloxirane and oxirane with a minimum number   | 26301-10-0                 |

| Polymer  | CAS No                  |
|--|-------------------------|
| average molecular weight (in amu) of 9,800   |                         |
| 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<br>26401-47-8 |
| 1,2-Ethanediamine, N1-(2-aminoethyl)-, polymer with 2,4-diisocyanato-1-methylbenzene, minimum number average molecular weight (in amu), one million  | 35297-61-1              |
| 1, 2-Ethanediamine, polymer with methyl oxirane and oxirane, minimum number average molecular weight (in amu), 1,100   | 26316-40-5              |
| Ethanol, 2,2',2''-nitrilotris, compd. with $\alpha$ -hydro-hydroxypoly (oxy-1,2-ethanediyl) ether with N-[4-[[4-bis(2-hydroxyethyl)amino]phenyl](2,4-disulfo)phenyl)methylene]-2,5-cyclohexadien-1-ylidene]-2-hydroxy-N-(2-hydroxyethyl)ethanaminium inner salt (1:4:1), minimum number average molecular weight (in amu) of 1,400 | 1147101-8               |
| 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  | 1685270-8               |
| Fatty acids, C <sub>18</sub> -unsatd., dimers, polymers with docosenoic acid and sorbitol, minimum number average molecular weight (in amu) 1,100  | 1685271-0               |
| 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   | 1685271-0               |
| 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   | 1685270-8               |
| Fatty acids, C <sub>18</sub> -unsatd., dimers, polymers with 1,3-propanediol, sorbitol and stearic acid  | 1685271-0               |
| Fatty acids, C <sub>18</sub> -unsatd., dimers, polymers with sorbitol and stearic acid, minimum number average molecular weight (in amu) 1,100   | 1685270-9               |
| 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               |
| 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               |
| 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               |
| Fatty acids, C <sub>18</sub> -unsatd., dimers, polymers with 1-docosanol and ethylenediamine, minimum number average   | 1699751-1               |

| Polymer  | CAS No     |
|--|------------|
| molecular weight (in amu) 1,400  |            |
| 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   | 1699751-2  |
| Fatty acids, C <sub>18</sub> -unsatd., dimers, polymers with hexamethylenediamine and stearyl alcohol, minimum number average molecular weight (in amu) 1,400  | 1699751-2  |
| Fatty acids, C <sub>18</sub> -unsatd., dimers, hydrogenated, polymers with cetyl alcohol and ethylenediamine, minimum number average molecular weight (in amu) 1,400   | 1699751-2  |
| 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   | 1699751-2  |
| Fatty acids, C <sub>18</sub> -unsatd., dimers, polymers with 1-docosanol and trimethylenediamine, minimum number average molecular weight (in amu) 1,400   | 1699751-2  |
| 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  | 1699751-3  |
| 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   | 1685271-0  |
| Fatty acids, rape-oil, triesters with polyethylene glycol ether with glycerol (3:1); minimum number average molecular weight (in amu), 1800  | 688045-21  |
| 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  |
| Formaldehyde, polymer with 1,3-benzenediol, ethers with polyethylene glycol mono-Me ether, minimum number average molecular weight (in amu) 1,000,000  | 1998118-3  |
| 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   | 1998118-3  |
| 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 | 1062609-1  |
| 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  | 1812871-2  |
| 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  |
| 2,5-Furandione, polymer with methoxyethene, butyl ethyl ester, sodium salt, minimum number average molecular weight (in amu), 18,200   | 1471342-0  |

| Polymer   | CAS No     |
|---|------------|
| 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 disilazane, 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- |
| $\alpha$ -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- |
| $\alpha$ -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- |
| $\alpha$ -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   | 1905409-7- |
| 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 |
| 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  | 1323833-5- |
| Methacrylic acid-methyl methacrylate-polyethylene glycol methyl ether methacrylate copolymer, minimum number average molecular weight (in amu), 3,700   | 100934-04- |
| Methacrylic acid-methyl methacrylate-polyethylene glycol monomethyl ether methacrylate graft copolymer, minimum number average molecular weight (in amu), 1,800   | 111740-36- |

| Polymer  | CAS No     |
|--|------------|
| 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- |
| 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  | 2115702-2- |
| 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 oxide  | None       |
| $\alpha$ -(p-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       |
| $\alpha$ -(p-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   | 1939051-1- |
| Octadecanoic acid, 12-Hydroxy-, Homopolymer Ester with 2-Methylloxirane Polymer with Oxirane monobutyl Ether, minimum number average molecular weight (in amu), 4,500  | 1373125-5- |
| 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- |
| Oxirane, hexadecyl-, reaction products with polyethylene-polypropylene glycol ether with trimethylolpropane  | 893427-80- |

| Polymer   | CAS No                  |
|---|-------------------------|
| (3:1)   |                         |
| 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               |
| Oxirane, methyl-, polymer with oxirane, mono[2-(2-butoxyethoxy) ethyl] ether, minimum number average molecular weight (in amu), 2,500   | 85637-75-8              |
| 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. N<br>2112825-1 |
| 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               |
| 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  | 1838191-4               |
| 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-(phenoxymethyl)-, polymer with oxirane, ether with 2,2',2"-nitrioltris[ethanol] (3:1), diblock, minimum number average molecular weight (in amu), 5,300                    | 2307555-8               |
| Oxirane, 2-(phenoxymethyl)-, polymer with oxirane, monobutyl ether, block, minimum number average molecular weight (in amu), 2300 Daltons   | CAS Reg. N<br>1010819-1 |
| Oxirane, phenyl-, polymer with oxirane, mono(dihydrogen phosphate), decyl ether, minimum number average molecular weight (in amu) 1300  | 308336-53               |
| Oxirane, phenyl, polymer with oxirane, monoocetyl 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)-hexane (isophoronediiisocyanate); 4,4'- | 1161844-2<br>1161844-3  |

| Polymer   | CAS No  |
|---|---|
| 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, dodecanol, tetradecanol, hexadecanol, octadecanol, and octadec-9-enol, minimum number average molecular weight (in amu), 20,000 | 1161844-4<br>1161844-5<br>1161844-5<br>693252-31<br>162993-60<br>630102-86  |
| 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<br>68201-46-7<br>68440-49-3<br>68458-88-8<br>68553-06-0<br>68606-12-2<br>68648-38-4<br>70377-91-2<br>70914-02-2<br>72245-12-6<br>72698-41-3<br>180254-52<br>248273-72<br>308063-50<br>952722-33  |
| 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<br>87090-31-1<br>88895-72-1<br>103171-31<br>161026-53<br>1472644-8<br>1472644-8<br>1472644-8<br>1472644-8<br>1472644-8<br>1472644-8<br>1472654-8<br>1472655-3<br>1472661-0<br>1472661-1<br>1472663-5<br>1472663-6<br>1472663-6<br>1472663-9<br>1472668-0 |
| Polyoxyalkylated trimethylpropanes with 20 to 80 moles of ethylene and/or propylene oxide, fatty acid   | 25765-36-0  |

| Polymer  | CAS No      |
|--|-------------|
| esters with C8 through C22 aliphatic alkanolic and/or alkenolic fatty acids, branched or linear; minimum number average molecular weight (in amu), 3,000 | 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  |
|  | 107120-02-2 |
|  | 133331-01-1 |
|  | 137587-60-0 |
|  | 149797-40-0 |
|  | 149797-41-1 |
|  | 150695-97-0 |
|  | 152130-24-0 |
|  | 163349-94-0 |
|  | 163349-95-0 |
|  | 163349-96-0 |
|  | 163349-97-0 |
|  | 163349-98-0 |
|  | 165467-70-0 |
|  | 183619-46-0 |
|  | 183619-50-0 |
|  | 185260-01-0 |
|  | 202606-04-0 |
|  | 210420-84-0 |
| 233660-70-0  |             |
| 263011-96-0  |             |
| 283602-94-0  |             |
| 701980-40-0  |             |
| 872038-58-0  |             |
| 875709-44-0  |             |
| 875709-45-0  |             |
| 875709-46-0  |             |
| 875709-47-0  |             |
| 879898-63-0  |             |
| 910038-01-0  |             |
| 1190748-0-0  |             |
| 1225384-0-0  |             |
| 1428944-4-0  |             |
| 1446498-1-0  |             |

| Polymer  | CAS No     |
|--|------------|
| Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy-, ether with N-[4-[bis[4-[bis(2-hydroxyethyl)amino]phenyl]methylene]-2,5-cyclohexadien-1-ylidene]-2-hydroxy-N-(2-hydroxyethyl)ethanaminium, benzenesulfonate (6:1:1), minimum number average molecular weight (in amu) of 1,370   | 1313600-4  |
| 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       |
| Poly(oxy-1,2-ethanediyl), polymer with 1,2-ethandiol, 2-methyl-1,3-propanediol, hexanedioic acid, 1,4-benzenedicarboxylic acid, 1,3-benzenedicarboxylic acid, 1,1'-methylenebis[4-isocyanatobenzene] and 2-ethyl-2-(hydroxymethyl)-1,3-propanediol, with a minimum number average molecular weight (in amu) of 1400  | 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  |
| Poly[oxy(methyl-1,2-ethanediyl)], $\alpha$ -[(9Z)-1-oxo-9-octadecen-1-yl]- $\omega$ -[[[(9Z)-1-oxo-9-octadecen-1yl]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  |
| 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 |

| Polymer   | CAS No     |
|---|------------|
| 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-yl)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  |
| 1-Propanesulfonic acid, 2-methyl-2-[(1-oxo-2-propen-1-yl)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  |
| 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-propenamido and 2-propenenitrile, minimum number average molecular weight (in amu), 100,000  | 1469998-0  |
| 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-propenamido, 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 |
| 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   | 2221936-1  |
| 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  | 1477613-4  |
| 2-Propenoic acid, 2-hydroxyethyl ester, polymer with $\alpha$ -[4-(ethenyloxy)butyl]- $\omega$ -hydroxypoly(oxy-1,2-ethanediyl), minimum number average molecular weight (in amu), 17,000   | 1007234-8  |
| 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   | 1203962-1  |
| [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),   | 950207-35  |

| Polymer   | CAS No             |
|---|--------------------|
| 4,000   |                    |
| 2-propenoic acid, 2-methyl-, dodecyl ester, polymer with 1-ethenyl-2-pyrrolidinone and a-(2-methyl-1-oxo-2-propen-1-yl)-w-methoxypoly(oxy-1,2-ethanediyl), minimum number average molecular weight (in amu), 20,600   | 193743-10          |
| 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          |
| 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 | 1283712-5          |
| 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 ethenesulfonate (1:1), minimum number average molecular weight (in amu), 20,000   | 518057-54          |
| 2-Propenoic acid, 2-methyl-, phenylmethyl ester, polymer with 2-propenoic acid, peroxydisulfuric acid (([HO)S(O)2]2O2) sodium salt (1:2)-initiated, compounds with diethanolamine, minimum number average molecular weight (in amu), 2,000  | 1574486-3          |
| 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)2]2O2) sodium salt (1:2)-initiated minimum number average molecular weight >1,000 Daltons; maximum number average molecular weight 10,000 Daltons                        | CASRN<br>1246766-5 |
| 2-Propenoic acid, 2-methyl-, polymer with butyl 2-methyl-2-propenoate, butyl 2-propenoate, N-(1,1-dimethyl-3-oxobutyl)-2-propenamamide, ethenylbenzene, 2-ethylhexyl 2-propenoate and methyl 2-methyl-2-propenoate, minimum number average molecular weight (in amu), 7,300   | 481053-27          |
| 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          |
| 2-Propenoic Acid, 2-Methyl-, Polymer with Ethenylbenzene, 2-Ethylhexyl 2-Propenoate, 2-Hydroxyethyl 2-Propenoate, N-(Hydroxymethyl) -2-Methyl-2-Propenamamide and Methyl 2-Methyl-2-Propenoate, Ammonium Salt   | 146753-99          |
| 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          |
| 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  | 1802325-2          |
| 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                                   | 1515872-0          |

| Polymer   | CAS No     |
|---|------------|
| 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    | 1260001-6  |
| 2-Propenoic acid, monoester with 1,2-propanediol, polymer with $\alpha$ -[4-(ethenyloxy) butyl]- $\omega$ -hydroxypoly (oxy-1,2-ethanediyl) and 2,5-furandione, minimum number average molecular weight (in amu), 25,000              | 955015-23  |
| 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  |
| 2-Propenoic acid, polymer with ethene, ethenyl acetate and sodium ethenesulfonate, minimum number average molecular weight (in amu) 5,600   | 429691-44  |
| 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  |
| 2-Propenoic acid, polymer with $\alpha$ -[4-(ethenyloxy) butyl]- $\omega$ -hydroxypoly (oxy-1,2-ethanediyl) and 2,5-furandione, sodium salt, minimum number average molecular weight (in amu), 25,000                                 | 251479-97  |
| 2-Propenoic acid, polymer with $\alpha$ -[4-(ethenyloxy) butyl]- $\omega$ -hydroxypoly (oxy-1,2-ethanediyl) and 1,2-propanediol mono-2-propenoate, potassium sodium salt, minimum number average molecular weight (in amu), 16,000    | 518026-64  |
| 2-Propenoic acid, polymer with $\alpha$ -[4-(ethenyloxy) butyl]- $\omega$ -hydroxypoly (oxy-1, 2-ethanediyl), sodium salt, minimum number average molecular weight (in amu), 24,000   | 250591-84  |
| 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  |
| 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  |
| 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 and iso-propyl alcohol, reaction with poly(oxypropylene)-poly(oxyethylene) glycol, minimum number average molecular weight (in amu), 75,000                   | None       |
| Siloxanes and silicones, di-Me, Me hydrogen, reaction products with vinyl group-terminated di-Me siloxanes,   | 156065-02  |

| Polymer   | CAS No                 |
|---|------------------------|
| minimum number average molecular weight (in amu) 10,600"  |                        |
| Sodium polyflavonoidsulfonate, 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              |
| 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              |
| 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  | 1398573-8              |
| 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              |
| Tetraethoxysilane, polymer with hexamethyldisiloxane, minimum number average molecular weight (in amu), 6,500   | 104133-09              |
| $\alpha$ -[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<br>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              |

| Polymer  | CAS No     |
|--|------------|
| α-[2,4,6-Tris[1-(phenyl)ethyl]phenyl]-ω-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       |
| 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).