

Appendix VI

Proposed Regulatory Language

The SIA/SEMI coalition proposes modifying the regulatory language contained in EPA's October 18, 2000 proposal as indicated below. Modifications of the regulatory language are underlined and placed in bold:

§ 721.9582 Certain perfluorooctyl sulfonates.

(a) *Chemical substances and significant new uses subject to reporting.*

(1) The chemical substances listed in Tables 1 and 2 of this paragraph are subject to reporting under this section for the significant new uses described in paragraph (a)(2) of this section.

Table 1. Chemicals requiring SNUN after January 1, 2001

CAS NO.	Ninth Collective Index Chemical Name
383-07-3	2-Propenoic acid, 2-[butyl[(heptadecafluorooctyl)sulfonyl]amino]ethyl ester.
423-82-5	2-Propenoic acid, 2-[butyl[(heptadecafluorooctyl)sulfonyl]amino]ethyl ester.
14650-24-9	2-Propenoic acid, 2-methyl-, 2-[[heptadecafluorooctyl)sulfonyl]methylamino]ethyl ester.
55120-77-9	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, lithium salt
68156-01-4	Cyclohexanesulfonic acid, nonafluorobis(trifluoromethyl)-, potassium salt.
68329-56-6	2-Propenoic acid, eicosyl ester, polymer with 2-[[heptadecafluorooctyl)sulfonyl]methylamino]ethyl 2-propenoate, hexadecyl 2-propenoate, 2-[methyl[(nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate and octadecyl 2-propenoate.
68555-91-9	2-Propenoic acid, 2-methyl-, 2-[ethyl[tridecafluorohexyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-methyl-2-propenoate, 2-[ethyl[(tridecafluorohexyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl(undecafluoropentyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate and octadecyl 2-methyl-2-propenoate.
68552-92-0	2-Propenoic acid, 2-methyl-, 2-[[heptadecafluorooctyl)sulfonyl]methylamino]ethyl ester, polymer with 2-[methyl[(nonafluorobutyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[methyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[methyl(tridecafluorohexyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[methyl[(undecafluoropentyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate and octadecyl 2-methyl-2-propenoate.
68909-15-9	2-propenoic acid, eicosyl ester, polymers with branched octyl acrylate, 2-[[heptadecafluorooctyl)sulfonyl]methylamino]ethylacrylate, 2-[methyl[(nonafluorobutyl)sulfonyl]amino]ethyl acrylate, 2-[methyl[(pentadecafluoroheptyl)sulfonyl]amino]ethylacrylate, 2-[methyl[(tridecafluorohexyl)sulfonyl]amino]ethyl acrylate, 2-[methyl[(undecafluoropentyl)sulfonyl]amino]ethylacrylate, polyethylene glycol acrylate Me ether and stearyl acrylate.
117806-54-9	1-Heptanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-, lithium salt
148240-79-3	Fatty acids, C 18-unsatd., trimers, 2-[methyl[(nonafluorobutyl)sulfonyl]amino]ethyl esters.
148240-80-6	Fatty acids, C 18-unsatd., trimers, 2-[methyl[(tridecafluorohexyl)sulfonyl]amino]ethyl esters.
148240-81-7	Fatty acids, C 18-unsatd., trimers, 2-[methyl[(undecafluoropentyl)sulfonyl]amino]ethyl esters.
148240-82-8	Fatty acids, C 18-unsatd., trimers, 2-[methyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl esters.

CAS NO.	Ninth Collective Index Chemical Name
P-83-1102	Fatty acids, linseed-oil, dimers, 2-[[heptadecafluorooctyl)sulfonyl]methylamino]ethyl esters.
P-84-1163	Propanoic acid, 3-hydroxy-2-(hydroxymethyl)-2-methyl-, polymer with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol and N,N',2-tris(6-isocyanatohexyl)imidodicarbonic diamide, reaction products with N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-(2-hydroxyethyl)-1-octanesulfonamide and N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-N-(2-hydroxyethyl)-1-heptanesulfonamide, compds. with triethylamine.
P-84-1171	Propanoic acid, 3-hydroxy-2-(hydroxymethyl)-2-methyl-, polymer with 1,1'-methylenebis[4-isocyanatobenzene] and 1,2,3-propanetriol, reaction products with N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-(2-hydroxyethyl)-1-octanesulfonamide and N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-N-(2-hydroxyethyl)-1-heptanesulfonamide, compds. with morpholine.
P-86-0301	Sulfonamides, C4-8-alkane, perfluoro, N-(hydroxyethyl)-N-methyl, reaction products with 2-ethyl-1-hexanol and TDI, ammonium salts.
P-89-0799	Sulfonamides, C4-8-alkane, perfluoro, N-ethyl-N-(hydroxyethyl), reaction products with 2-ethyl-1-hexanol and polymethylenepolyphenylene isocyanate.
P-94-0545	1-Hexadecanaminium, N,N-dimethyl-N[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]-, bromide, polymers with Bu acrylate, Bumethacrylate and 2-[methyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl acrylate.
P-94-0927	2-Propenoic acid, 2-methyl-, 2-methylpropyl ester, polymer with 2,4-diisocyanato-1methylbenzene, 2-ethyl-2-(hydroxymethyl)-1,3-propanediol and 2-propenoic acid, N-ethyl-N(hydroxyethyl)perfluoro-C4-8-alkanesulfon amides-blocked.
P-94-2206	Siloxanes and Silicones, di-Me, mono[3-[(2-methyl-1-oxo-2-propenyl)oxy]propylgroup]-terminated, polymers with 2-[methyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl acrylate and stearyl methacrylate.
P-97-0790	1-Decanaminium, N-decyl-N,N-dimethyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonic acid (1:1).
P-98-0251	2-Propenoic acid, butyl ester, polymers with acrylamide, 2-[methyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl acrylate and vinylidene chloride.
P-98-1272	2-Propenoic acid, 2-methyl-, 3-(trimethoxysilyl)propyl ester, polymers with acrylic acid, 2-[methyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl acrylate and propylene glycol monacrylate, hydrolyzed, compds. with 2,2'-(methylimino)bis[ethanol].
P-98-0188	Hexane, 1,6-diisocyanato-, homopolymer, N-(hydroxyethyl)-N-methyl perfluoro C4-8-alkane sulfonamide- and stearyl alc.-blocked.
P-99-0319	Poly(oxy-1,2-ethanediyl), .alpha.-[2-(methylamino)ethyl]-.omega.-[(1,1,3,3-tetramethylbutyl)phenoxy]-, N-[(perfluoro-C4-8-alkyl)sulfonyl]dervis..

Table 2. Chemicals requiring SNUN after January 1, 2003

CAS NO.	Ninth Collective Index Chemical Name
307-35-7	1-Octanesulfonyl fluoride, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-
307-51-7	1-Decanesulfonyl fluoride, 1,1,2,2,3,3,4,4,5,5,5,6,6,7,7,8,8,9,9,10,10-heneicosafuoro-
376-14-7	2-Propenoic acid, 2-methyl-, 2-[ethyl[(heptadecafluorooctyl)sulfonyl]amino]ethyl ester
423-50-7	1-Hexanesulfonyl fluoride, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-
754-91-6	1-Octanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-
1691-99-2	1-Octanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-(2-hydroxyethyl)-
1763-23-1	1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-
2795-39-3	1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-potassium salt
4151-50-2	1-Octanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-
17202-41-4	1-Nonanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-nonadecafluoro-
24448-09-7	-1-Octanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-(2-hydroxyethyl)-N-methyl-
25268-77-3	2-Propenoic acid, 2-[[heptadecafluorooctyl)sulfonyl]methylamino]ethyl ester

CAS NO.	Ninth Collective Index Chemical Name
29081-56-9	1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, ammonium salt
29117-08-6	Poly(oxy-1,2-ethanediyl), .alpha.-[2-[ethyl[(heptadecafluorooctyl)sulfonyl]amino]ethyl]-.omega.-hydroxy-
29457-72-5	1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, lithium salt
31506-32-8	1-Octanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-methyl-
38850-58-7	1-Propanaminium, N-(2-hydroxyethyl)-N,N-dimethyl-3-[(3-sulfopropyl)](tridecafluorohexyl)sulfonyl]amino]-, inner salt
67584-42-3	Cyclohexanesulfonic acid, decafluoro(pentafluoroethyl)-, potassium salt
67906-42-7	1-Decanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heneicosfluoro-, ammonium salt
68298-62-4	2-Propenoic acid, 2-[butyl(heptadecafluorooctyl)sulfonyl]amino]ethyl ester, telomer with 2-[butyl[pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, methyloxirane polymer with oxirane di-2-propenoate, methyloxirane polymer with oxirane mono-propenoate and 1-octanethiol
68541-80-0	2-Propenoic acid, polymer with 2-[ethyl[(heptadecafluorooctyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate and octadecyl 2-propenoate
68555-90-8	2-Propenoic acid, butyl ester, polymer with 2-[[heptadecafluorooctyl)sulfonyl]methylamino]ethyl 2-propenoate, 2-[methyl[(nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(tridecafluorohexyl)sulfonyl]amino]ethyl 2-propenoate and 2-[methyl[(undecafluoropentyl)sulfonyl]amino]ethyl 2-propenoate
68586-14-1	2-Propenoic acid, 2-[[heptadecafluorooctyl)sulfonyl]methylamino]ethyl ester, telomer with 2-[methyl[(nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate, .alpha.-2(methyl-1-oxo-2-propenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl), .alpha.-(2-methyl-1-oxo-2-propenyl)-.omega.-[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl), 2-[methyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(tridecafluorohexyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(undecafluoropentyl)sulfonyl]amino]ethyl 2-propenoate and 1-octanethiol
68649-26-3	1-Octanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-(2-hydroxyethyl)-, reaction products with N-ethyl-1,1,2,2,3,3,4,4,4-nonafluoro-N-(2-hydroxyethyl)-1-butanefulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-N-(2-hydroxyethyl)-1-heptanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(2-hydroxyethyl)-1-hexanesulfonamide, -ethyl-1,1,2,2,3,3,4,4,5,5,5-undecafluoro-N-(2-hydroxyethyl)-1-pentanesulfonamide, polymethylenepolyphenylene isocyanate and stearyl acid
68867-60-7	2-Propenoic acid, 2-[[heptadecafluorooctyl)sulfonyl]methylamino]ethyl ester, polymer with 2-[methyl[(nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(tridecafluorohexyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(undecafluoropentyl)sulfonyl]amino]ethyl 2-propenoate and .alpha.-(1-oxo-2-propenyl)-.omega.-methoxypoly(oxy-1,2-ethanediyl)
68867-62-9	2-Propenoic acid, 20methyl-, 2-[ethyl[(heptadecafluorooctyl)sulfonyl]amino]ethyl ester, telomer with 2-[ethyl[(nonafluorobutyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(tridecafluorohexyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(undecafluoropentyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 1-octanethiol and .alpha.-1(1oxo-2-propenyl)-[ethyl[(undecafluoropentyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 1-octanethiol and .alpha.-(1-oxo-2-propenyl)-.omega.-methoxypoly(oxy-1,2-ethanediyl)
68958-61-2	Poly(oxy-1,2,-ethanediyl), .alpha.-2-[ethyl[(heptadecafluorooctyl)sulfonyl]amino]ethyl]-.omega.-methoxy-
70225-14-8	1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-hpetadecafluoro-, compd. with 2,2'-iminobis[ethanol] (1:1)
71487-20-2	2-Propenoic acid, 2-methyl-, methyl ester, polymer with ethenylbenzene, 2-

CAS NO.	Ninth Collective Index Chemical Name
	[[[(heptadecafluorooctyl)sulfonyl]methylamino]ethyl 2-propenoate, 2-[methyl[(nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(tridecafluorohexyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(undecafluoropentyl)sulfonyl]amino]ethyl 2-propenoate and 2-propenoic acid
91081-99-1	1-Octanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-(2-hydroxyethyl)-N-methyl-, polymer with (chloromethyl)oxirane, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-(2-hydroxyethyl)-N-methyl-, polymer with (chloromethyl)oxirane, 1,1,2,2,3,3,4,4,4-nonafluoro-N-(2-hydroxyethyl)-N-methyl-1-butanedisulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-N-(2-hydroxyethyl)-N-methyl-1-hepanedisulfonamide, 1,1,2,2,3,3,4,4,5,5,5,6,6,6,6-tridecafluoro-N-(2-hydroxyethyl)-N-methyl-1-hexanedisulfonamide and 1,1,2,2,3,3,4,4,5,5,5-undecafluoro-N-(2-hydroxyethyl)-N-methyl-1-pentanedisulfonamide, hexanedioate (ester)
98999-57-6	Sulfonamides, C7-8 alkane, perfluoro, N-methyl-N-[2-[(1-oxo-2-propenyl)oxy]ethyl], polymers with 2-ethoxyethyl acrylate, glycidyl methacrylate and N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]ethanaminiumchloride
L-92-0151	2-Propenoic acid, 2-methyl-, butyl ester, polymer with 2-methyl-, 2[ethyl [(heptadecafluorooctyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(nonafluorobutyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate 2-[ethyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(tridecafluorohexyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, and 2-propenoic acid
P-80-0183	Sulfonamides, C4-8 alkane, perfluoro, N-[3-(dimethylamino)propyl], reaction products with acrylic acid
P-86-0958	2-Propenoic acid, 2-methyl-, dodecyl ester, polymers with 2-[methyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl acrylate and vinylidene chloride
P-90-0111	Sulfonamides, C4-8 alkane, perfluoro, N-methyl-N-[(3-octadecyl-2-oxo-5-oxazolidiny)methyl]
P-91-1419	Poly(oxy-1,2-ethanediyl), .alpha.-hydroxy-, polymer with 1,6-diisocyanatohexane, N-(2-hydroxyethyl)-N-methylperfluoro C4-8 alkane sulfonamide-blocked
P-93-1444	2-Propenoic acid, 2-methyl-, dodecyl ester, polymers with N-(hydroxymethyl)-2-propenamides, 2-[methyl[(perfluoro C4-8-alkyl)sulfonyl]amino]ethyl methacrylate, stearyl methacrylate and vinylidene chloride
P-95-0120	Sulfonamides, C4-8 alkane, perfluoro, N,N'-[1-6-hexanediy]bis[[2-oxo-3,5-oxazolidinediy]methylene]]bis[N-methyl-
P-96-1262	Sulfonic acids, C6-8-alkane, perfluoro, compds. with polyethylene-polypropylene glycol bis(2-aminopropyl) ether
P-96-1424	2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, telomers with 2-[ethyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl methacrylate and 1-octanethiol, N-oxides
P-96-1433	Sulfonamides, C4-8-alkane, perfluoro, N-[3-(dimethylamino)propyl], potassium salts

(2) **Except as provided in paragraph (a)(3)**, the significant new uses are:

(i) Any manufacture or import for any use of any chemical listed in Table 1 of paragraph (a)(1) of this section on or after January 1, 2001.

(ii) Any manufacture or import for any use of any one or more of the chemicals listed in Table 2 of paragraph (a)(1) of this section in excess of an aggregate volume for all of these chemicals of 1,100,000 pounds per person per calendar year on or after January 1, 2001 and before January 1, 2003.

(iii) Any manufacture or import for any use of any of the chemicals listed in Table 2 of paragraph (a)(1) of this section on or after January 1, 2003.

(3) The chemical substances listed in Table 1 below are not subject to this section if they are used as components of the following substances, or as intermediates to produce components of the following substances:

(i) a photoresist substance (including a photo acid generator or surfactant) used in a photolithography process to produce semiconductors or other electronic devices; or

(ii) an anti-reflective coating used in a photolithography process to produce semiconductors or other electronic devices.

Table 1

<u>CAS NO.</u>	<u>Ninth Collective Index Chemical Name</u>
<u>383-07-3</u>	<u>2-Propenoic acid, 2-[butyl]((heptadecafluorooctyl)sulfonyl)aminoethyl ester.</u>
<u>423-82-5</u>	<u>2-Propenoic acid, 2-[butyl]((heptadecafluorooctyl)sulfonyl)aminoethyl ester.</u>
<u>14650-24-9</u>	<u>2-Propenoic acid, 2-methyl-, 2-[[heptadecafluorooctyl)sulfonyl]methylaminoethyl ester.</u>
<u>55120-77-9</u>	<u>1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, lithium salt</u>
<u>68156-01-4</u>	<u>Cyclohexanesulfonic acid, nonafluorobis(trifluoromethyl)-, potassium salt.</u>
<u>68329-56-6</u>	<u>2-Propenoic acid, eicosyl ester, polymer with 2-[[heptadecafluorooctyl)sulfonyl]methylaminoethyl 2-propenoate, hexadecyl 2-propenoate, 2-[methyl]((nonafluorobutyl)sulfonyl)aminoethyl 2-propenoate, 2-[methyl]((pentadecafluoroheptyl)sulfonyl)aminoethyl 2-propenoate and octadecyl 2-propenoate.</u>
<u>68555-91-9</u>	<u>2-Propenoic acid, 2-methyl-, 2-[ethyl]((tridecafluorohexyl)sulfonyl)aminoethyl 2-methyl-2-propenoate, 2-methyl-2-propenoate, 2-[ethyl]((tridecafluorohexyl)sulfonyl)aminoethyl 2-methyl-2-propenoate, 2-[ethyl]((undecafluoropentyl)sulfonyl)aminoethyl 2-methyl-2-propenoate and octadecyl 2-methyl-2-propenoate.</u>
<u>68552-92-0</u>	<u>2-Propenoic acid, 2-methyl-, 2-[[heptadecafluorooctyl)sulfonyl]methylaminoethyl ester, polymer with 2-[methyl]((nonafluorobutyl)sulfonyl)aminoethyl 2-methyl-2-propenoate, 2-[methyl]((pentadecafluoroheptyl)sulfonyl)aminoethyl 2-methyl-2-propenoate, 2-[methyl]((tridecafluorohexyl)sulfonyl)aminoethyl 2-methyl-2-propenoate, 2-[methyl]((undecafluoropentyl)sulfonyl)aminoethyl 2-methyl-2-propenoate and octadecyl 2-methyl-2-propenoate.</u>
<u>68909-15-9</u>	<u>2-propenoic acid, eicosyl ester, polymers with branched octyl acrylate, 2-[[heptadecafluorooctyl)sulfonyl]methylaminoethylacrylate, 2-[methyl]((nonafluorobutyl) sulfonyl)aminoethyl acrylate, 2-[methyl]((pentadecafluoroheptyl)sulfonyl)aminoethylacrylate, 2-[methyl]((tridecafluorohexyl)sulfonyl)aminoethyl acrylate, 2-[methyl]((undecafluoropentyl) sulfonyl)aminoethylacrylate, polyethylene glycol acrylate Me ether and stearyl acrylate.</u>
<u>117806-54-9</u>	<u>1-Heptanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-, lithium salt</u>
<u>148240-79-3</u>	<u>Fatty acids, C 18-unsatd., trimers, 2-[methyl]((nonafluorobutyl)sulfonyl)aminoethyl esters.</u>
<u>148240-80-6</u>	<u>Fatty acids, C 18-unsatd., trimers, 2-[methyl]((tridecafluorohexyl)sulfonyl)aminoethyl esters.</u>
<u>148240-81-7</u>	<u>Fatty acids, C 18-unsatd., trimers, 2-[methyl]((undecafluoropentyl)sulfonyl)aminoethyl esters.</u>
<u>148240-82-8</u>	<u>Fatty acids, C 18-unsatd., trimers, 2-[methyl]((pentadecafluoroheptyl)sulfonyl)aminoethyl esters.</u>
<u>P-83-1102</u>	<u>Fatty acids, linseed-oil, dimers, 2-[[heptadecafluorooctyl)sulfonyl]methylaminoethyl esters.</u>
<u>P-84-1163</u>	<u>Propanoic acid, 3-hydroxy-2-(hydroxymethyl)-2-methyl-, polymer with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol and N,N',2-tris(6-isocyanatohexyl)imidodicarbonic diamide, reaction products with N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-</u>

CAS NO.	Ninth Collective Index Chemical Name
	<u>N-(2-hydroxyethyl)-1-octanesulfonamide and N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-N-(2-hydroxyethyl)-1-heptanesulfonamide, compds. with triethylamine.</u>
<u>P-84-1171</u>	<u>Propanoic acid, 3-hydroxy-2-(hydroxymethyl)-2-methyl-, polymer with 1,1'-methylenebis[4-isocyanatobenzene] and 1,2,3-propanetriol, reaction products with N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-(2-hydroxyethyl)-1-octanesulfonamide and N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-N-(2-hydroxyethyl)-1-heptanesulfonamide, compds. with morpholine.</u>
<u>P-86-0301</u>	<u>Sulfonamides, C4-8-alkane, perfluoro, N-(hydroxyethyl)-N-methyl, reaction products with 2-ethyl-1-hexanol and TDI, ammonium salts.</u>
<u>P-89-0799</u>	<u>Sulfonamides, C4-8-alkane, perfluoro, N-ethyl-N-(hydroxyethyl), reaction products with 2-ethyl-1-hexanol and polymethylenepolyphenylene isocyanate.</u>
<u>P-94-0545</u>	<u>1-Hexadecanaminium, N,N-dimethyl-N[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]-, bromide, polymers with Bu acrylate, Bumethacrylate and 2-[methyl(perfluoro-C4-8-alkyl)sulfonyl]aminoethyl acrylate.</u>
<u>P-94-0927</u>	<u>2-Propenoic acid, 2-methyl-, 2-methylpropyl ester, polymer with 2,4-diisocyanato-1-methylbenzene, 2-ethyl-2-(hydroxymethyl)-1,3-propanediol and 2-propenoic acid, N-ethyl-N(hydroxyethyl)perfluoro-C4-8-alkanesulfon amides-blocked.</u>
<u>P-94-2206</u>	<u>Siloxanes and Silicones, di-Me, mono[3-[(2-methyl-1-oxo-2-propenyl)oxy]propylgroup]-terminated, polymers with 2-[methyl(perfluoro-C4-8-alkyl)sulfonyl]aminoethyl acrylate and stearyl methacrylate.</u>
<u>P-97-0790</u>	<u>1-Decanaminium, N-decyl-N,N-dimethyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonic acid (1:1).</u>
<u>P-98-0251</u>	<u>2-Propenoic acid, butyl ester, polymers with acrylamide, 2-[methyl(perfluoro-C4-8-alkyl)sulfonyl]aminoethyl acrylate and vinylidene chloride.</u>
<u>P-98-1272</u>	<u>2-Propenoic acid, 2-methyl-, 3-(trimethoxysilyl)propyl ester, polymers with acrylic acid, 2-[methyl(perfluoro-C4-8-alkyl)sulfonyl]aminoethyl acrylate and propylene glycol monacrylate, hydrolyzed, compds. with 2,2'-(methylimino)bis[ethanol].</u>
<u>P-98-0188</u>	<u>Hexane, 1,6-diisocyanato-, homopolymer, N-(hydroxyethyl)-N-methyl perfluoro C4-8-alkane sulfonamide- and stearyl alc.-blocked.</u>
<u>P-99-0319</u>	<u>Poly(oxy-1,2-ethanediy), .alpha.-[2-(methylamino)ethyl]-.omega.-[(1,1,3,3-tetramethylbutyl)phenoxy]-, N-[(perfluoro-C4-8-alkyl)sulfonyl]derivis..</u>
<u>307-35-7</u>	<u>1-Octanesulfonyl fluoride, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-</u>
<u>307-51-7</u>	<u>1-Decanesulfonyl fluoride, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-heneicosafuoro-</u>
<u>376-14-7</u>	<u>2-Propenoic acid, 2-methyl-, 2-[ethyl(heptadecafluorooctyl)sulfonyl]aminoethyl ester</u>
<u>423-50-7</u>	<u>1-Hexanesulfonyl fluoride, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-</u>
<u>754-91-6</u>	<u>1-Octanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-</u>
<u>1691-99-2</u>	<u>1-Octanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-(2-hydroxyethyl)-</u>
<u>1763-23-1</u>	<u>1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-</u>
<u>2795-39-3</u>	<u>1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-potassium salt</u>
<u>4151-50-2</u>	<u>1-Octanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-</u>
<u>17202-41-4</u>	<u>1-Nonanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-nonadecafluoro-</u>
<u>24448-09-7</u>	<u>-1-Octanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-(2-hydroxyethyl)-N-methyl-</u>
<u>25268-77-3</u>	<u>2-Propenoic acid, 2-[(heptadecafluorooctyl)sulfonyl]methylaminoethyl ester</u>
<u>29081-56-9</u>	<u>1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, ammonium salt</u>
<u>29117-08-6</u>	<u>Poly(oxy-1,2-ethanediy), .alpha.-[2-[ethyl(heptadecafluorooctyl)sulfonyl]amino]ethyl]-.omega.-hydroxy-</u>
<u>29457-72-5</u>	<u>1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-,lithium salt</u>
<u>31506-32-8</u>	<u>1-Octanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-methyl-</u>
<u>38850-58-7</u>	<u>1-Propanaminium, N-(2-hydroxyethyl)-N,N-dimethyl-3-[(3-sulfopropyl)(tridecafluorohexyl)sulfonyl]amino]-,inner salt</u>

CAS NO.	Ninth Collective Index Chemical Name
<u>67584-42-3</u>	<u>Cyclohexanesulfonic acid, decafluoro(pentafluoroethyl)-, potassium salt</u>
<u>67906-42-7</u>	<u>1-Decanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heneicosafuoro-, ammonium salt</u>
<u>68298-62-4</u>	<u>2-Propenoic acid, 2-[butyl(heptadecafluorooctyl)sulfonyl]aminoethyl ester, telomer with 2-[butyl(pentadecafluoroheptyl)sulfonyl]aminoethyl 2-propenoate, methyloxirane polymer with oxirane di-2-propenoate, methyloxirane polymer with oxirane mono-propenoate and 1-octanethiol</u>
<u>68541-80-0</u>	<u>2-Propenoic acid, polymer with 2-[ethyl(heptadecafluorooctyl)sulfonyl]aminoethyl 2-methyl-2-propenoate and octadecyl 2-propenoate</u>
<u>68555-90-8</u>	<u>2-Propenoic acid, butyl ester, polymer with 2-[(heptadecafluorooctyl)sulfonyl]methylaminoethyl 2-propenoate, 2-[methyl(nonafluorobutyl)sulfonyl]aminoethyl 2-propenoate, 2-[methyl(pentadecafluoroheptyl)sulfonyl]aminoethyl 2-propenoate, 2-[methyl(tridecafluorohexyl)sulfonyl]aminoethyl 2-propenoate and 2-[methyl(undecafluoropentyl)sulfonyl]aminoethyl 2-propenoate</u>
<u>68586-14-1</u>	<u>2-Propenoic acid, 2-[(heptadecafluorooctyl)sulfonyl]methylaminoethyl ester, telomer with 2-[methyl(nonafluorobutyl)sulfonyl]aminoethyl 2-propenoate, .alpha.-2(methyl-1-oxo-2-propenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl), .alpha.-(2-methyl-1-oxo-2-propenyl)-.omega.-[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl), 2-[methyl(pentadecafluoroheptyl)sulfonyl]aminoethyl 2-propenoate, 2-[methyl(tridecafluorohexyl)sulfonyl]aminoethyl 2-propenoate, 2-[methyl(undecafluoropentyl)sulfonyl]aminoethyl 2-propenoate and 1-octanethiol</u>
<u>68649-26-3</u>	<u>1-Octanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-(2-hydroxyethyl)-, reaction products with N-ethyl-1,1,2,2,3,3,4,4,4-nonafluoro-N(2-hydroxyethyl)-1butanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-N-(2-hydroxyethyl)-1-heptanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(2-hydroxyethyl)-1-hexanesulfonamide, -ethyl-1,1,2,2,3,3,4,4,5,5,5,5-undecafluoro-N-(2-hydroxyethyl)-1-pentanesulfonamide, polymethylenepolyphenylene isocyanate and stearyl acid</u>
<u>68867-60-7</u>	<u>2-Propenoic acid, 2-[(heptadecafluorooctyl)sulfonyl]methylaminoethyl ester, polymer with 2-[methyl(nonafluorobutyl)sulfonyl]aminoethyl 2-propenoate, 2-[methyl(pentadecafluoroheptyl)sulfonyl]aminoethyl 2-propenoate, 2-[methyl(tridecafluorohexyl)sulfonyl]aminoethyl 2-propenoate, 2-[methyl(undecafluoropentyl)sulfonyl]aminoethyl 2-propenoate and .alpha.-(1-oxo-2-propenyl)-.omega.-methoxypoly(oxy-1,2-ethanediyl)</u>
<u>68867-62-9</u>	<u>2-Propenoic acid, 20methyl-, 2-[ethyl(heptadecafluorooctyl)sulfonyl]aminoethyl ester, telomer with 2-[ethyl(nonafluorobutyl)sulfonyl]aminoethyl 2-methyl-2-propenoate, 2-[ethyl(pentadecafluoroheptyl)sulfonyl]aminoethyl 2-methyl-2-propenoate, 2-[ethyl(tridecafluorohexyl)sulfonyl]aminoethyl 2-methyl-2-propenoate, 2-[ethyl(undecafluoropentyl)sulfonyl]aminoethyl 2-methyl-2-propenoate, 1-octanethiol and .alpha.-1(1oxo-2-propenyl)-ethyl(undecafluoropentyl)sulfonyl]aminoethyl 2-methyl-2-propenoate, 1-octanethiol and .alpha.-(1-oxo-2-propenyl)-.omega.-methoxypoly(oxy-1,2-ethanediyl)</u>
<u>68958-61-2</u>	<u>Poly(oxy-1,2,-ethanediyl), .alpha.-2-[ethyl(heptadecafluorooctyl)sulfonyl]aminoethyl]-.omega.-methoxy-</u>
<u>70225-14-8</u>	<u>1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-hpetadecafluoro-, compd. with 2,2'-iminobis[ethanol] (1:1)</u>
<u>71487-20-2</u>	<u>2-Propenoic acid, 2-methyl-, methyl ester, polymer with ethenylbenzene, 2-[(heptadecafluorooctyl)sulfonyl]methylaminoethyl 2-propenoate, 2-[methyl(nonafluorobutyl)sulfonyl]aminoethyl 2-propenoate, 2-[methyl(pentadecafluoroheptyl)sulfonyl]aminoethyl 2-propenoate, 2-[methyl(tridecafluorohexyl)sulfonyl]aminoethyl 2-propenoate, 2-[methyl(undecafluoropentyl)sulfonyl]aminoethyl 2-propenoate and 2-propenoic acid</u>
<u>91081-99-1</u>	<u>1-Octanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-(2-hydroxyethyl)-N-methyl-, polymerwith (chloromethyl)oxirane,</u>

<u>CAS NO.</u>	<u>Ninth Collective Index Chemical Name</u>
	<u>1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-(2-hydroxyethyl)-N-methyl-, polymer with (chloromethyl)oxirane, 1,1,2,2,3,3,4,4,4-nonafluoro-N-(2-hydroxyethyl)-N-methyl-1-butanefulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-N-(2-hydroxyethyl)-N-methyl-1-hepanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(2-hydroxyethyl)-N-methyl-1-hexanesulfonamide and 1,1,2,2,3,3,4,4,5,5,5-undecafluoro-N-(2-hydroxyethyl)-N-methyl-1-pentanesulfonamide, hexanedioate (ester)</u>
<u>98999-57-6</u>	<u>Sulfonamides, C7-8 alkane, perfluoro, N-methyl-N-[2-[(1-oxo-2-propenyl)oxy]ethyl], polymers with 2-ethoxyethyl acrylate, glycidyl methacrylate and N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]ethanaminiumchloride</u>
<u>L-92-0151</u>	<u>2-Propenoic acid, 2-methyl-, butyl ester, polymer with 2-methyl-, 2[ethyl [(heptadecafluorooctyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(nonafluorobutyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate 2-[ethyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(tridecafluorohexyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, and 2-propenoic acid</u>
<u>P-80-0183</u>	<u>Sulfonamides, C4-8 alkane, perfluoro, N-[3-(dimethylamino)propyl], reaction products with acrylic acid</u>
<u>P-86-0958</u>	<u>2-Propenoic acid, 2-methyl-, dodecyl ester, polymers with 2-[methyl](perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl acrylate and vinylidene chloride</u>
<u>P-90-0111</u>	<u>Sulfonamides, C4-8 alkane, perfluoro, N-methyl-N-[3-(octadecyl-2-oxo-5-oxazolidinyl)methyl]</u>
<u>P-91-1419</u>	<u>Poly(oxy-1,2-ethanedivyl), .alpha.-hydroxy-, polymer with 1,6-diisocyanatohexane, N-(2-hydroxyethyl)-N-methylperfluoro C4-8 alkane sulfonamide-blocked</u>
<u>P-93-1444</u>	<u>2-Propenoic acid, 2-methyl-, dodecyl ester, polymers with N-(hydroxymethyl)-2-propenamides, 2-[methyl](perfluoro C4-8-alkyl)sulfonyl]amino]ethyl methacrylate, stearyl methacrylate and vinylidene chloride</u>
<u>P-95-0120</u>	<u>Sulfonamides, C4-8 alkane, perfluoro, N,N'-[1-6-hexanedivylbis][2-oxo-3,5-oxazolidinedivyl)methylene]bis[N-methyl-</u>
<u>P-96-1262</u>	<u>Sulfonic acids, C6-8-alkane, perfluoro, compds. with polyethylene-polypropylene glycol bis(2-aminopropyl) ether</u>
<u>P-96-1424</u>	<u>2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, telomers with 2-[ethyl](perfluoro-C4-8-alkylsulfonyl]amino]ethyl methacrylate and 1-octanethiol, N-oxides</u>
<u>P-96-1433</u>	<u>Sulfonamides, C4-8-alkane, perfluoro, N-[3-(dimethyloxidoamino)propyl], potassium salts</u>

(4) For purposes of paragraph (a)(3) the term “photolithography process” refers to the process of transferring an image into a photo-imagable coating (termed a photoresist) through the application of light or other form of actinic radiation to the photoresist with the intent of subsequently transferring the geometric features of the image to the substrate underlying the photoresist. Transfer of the image to the underlying substrate takes place via subsequent physical or chemical processes that are not part of the photolithography process. The photolithography process includes coating the substrate with the photoresist, exposing the photoresist to light and developing the unwanted photoresist to define the image created in the exposure process.

(b) [Reserved].