

## **HPV Challenge Program**

### **List of Un-sponsored Chemicals**

## 267 Un-sponsored Chemicals (11/30/06)

Changes to the Orphans list since the last update (03/31/06):

22 chemicals removed (14 sponsorships + 5 SIDS + 3 NoLongerHPVs), & 2 chemicals added (2 sponsorship withdrawals).

CAS#	Official 9th Collective Index Chemical Name
56-40-6	Glycine
62-23-7	Benzoic acid, 4-nitro-
62-56-6	Thiourea
75-07-0	Acetaldehyde
75-36-5	Acetyl chloride
75-87-6	Acetaldehyde, trichloro-
77-76-9	Propane, 2,2-dimethoxy-
78-00-2	Plumbane, tetraethyl-
78-11-5	1,3-Propanediol, 2,2-bis[(nitrooxy)methyl]-, dinitrate (ester)
81-07-2	1,2-Benzisothiazol-3(2H)-one, 1,1-dioxide
81-16-3	1-Naphthalenesulfonic acid, 2-amino-
81-84-5	1H,3H-Naphtho[1,8-cd]pyran-1,3-dione
83-41-0	Benzene, 1,2-dimethyl-3-nitro-
84-65-1	9,10-Anthracenedione
84-69-5	1,2-Benzenedicarboxylic acid, bis(2-methylpropyl) ester
85-40-5	1H-Isoindole-1,3(2H)-dione, 3a,4,7,7a-tetrahydro-
89-32-7	1H,3H-Benzo[1,2-c:4,5-c']difuran-1,3,5,7-tetrone
91-53-2	Quinoline, 6-ethoxy-1,2-dihydro-2,2,4-trimethyl-
91-68-9	Phenol, 3-(diethylamino)-
94-96-2	1,3-Hexanediol, 2-ethyl-
96-22-0	3-Pentanone
97-00-7	Benzene, 1-chloro-2,4-dinitro-
98-09-9	Benzenesulfonyl chloride
98-16-8	Benzenamine, 3-(trifluoromethyl)-
98-56-6	Benzene, 1-chloro-4-(trifluoromethyl)-
100-53-8	Benzenemethanethiol
101-34-8	9-Octadecenoic acid, 12-(acetyloxy)-, 1,2,3-propanetriyl ester, (9Z,9'Z,9''Z,12R,12'R,12''R)-
104-66-5	Benzene, 1,1'-[1,2-ethanediylbis(oxy)]bis-
104-91-6	Phenol, 4-nitroso-
104-93-8	Benzene, 1-methoxy-4-methyl-
107-39-1	1-Pentene, 2,4,4-trimethyl-
107-40-4	2-Pentene, 2,4,4-trimethyl-
108-19-0	Imidodicarbonic diamide
109-87-5	Methane, dimethoxy-
110-03-2	2,5-Hexanediol, 2,5-dimethyl-
110-18-9	1,2-Ethanediamine, N,N,N',N'-tetramethyl-
110-33-8	Hexanedioic acid, dihexyl ester
110-44-1	2,4-Hexadienoic acid, (2E,4E)-
111-44-4	Ethane, 1,1'-oxybis[2-chloro-
111-85-3	Octane, 1-chloro-
111-91-1	Ethane, 1,1'-[methylenebis(oxy)]bis[2-chloro-
112-52-7	Dodecane, 1-chloro-
118-82-1	Phenol, 4,4'-methylenebis[2,6-bis(1,1-dimethylethyl)-

118-90-1 Benzoic acid, 2-methyl-  
119-33-5 Phenol, 4-methyl-2-nitro-  
119-61-9 Methanone, diphenyl-  
121-69-7 Benzenamine, N,N-dimethyl-  
121-82-4 1,3,5-Triazine, hexahydro-1,3,5-trinitro-  
124-63-0 Methanesulfonyl chloride  
127-68-4 Benzenesulfonic acid, 3-nitro-, sodium salt  
131-57-7 Methanone, (2-hydroxy-4-methoxyphenyl)phenyl-  
137-16-6 Glycine, N-methyl-N-(1-oxododecyl)-, sodium salt  
137-20-2 Ethanesulfonic acid, 2-[methyl[(9Z)-1-oxo-9-octadecenyl]amino]-, sodium salt  
138-25-0 1,3-Benzenedicarboxylic acid, 5-sulfo-, 1,3-dimethyl ester  
139-40-2 1,3,5-Triazine-2,4-diamine, 6-chloro-N,N'-bis(1-methylethyl)-  
140-93-2 Carbonodithioic acid, O-(1-methylethyl) ester, sodium salt  
142-30-3 3-Hexyne-2,5-diol, 2,5-dimethyl-  
142-73-4 Glycine, N-(carboxymethyl)-  
144-62-7 Ethanedioic acid  
149-44-0 Methanesulfinic acid, hydroxy-, monosodium salt  
150-50-5 Phosphorotrithious acid, tributyl ester  
330-54-1 Urea, N'-(3,4-dichlorophenyl)-N,N-dimethyl-  
460-00-4 Benzene, 1-bromo-4-fluoro-  
506-51-4 1-Tetracosanol  
506-52-5 1-Hexacosanol  
513-74-6 Carbamodithioic acid, monoammonium salt  
515-40-2 Benzene, (2-chloro-1,1-dimethylethyl)-  
529-33-9 1-Naphthalenol, 1,2,3,4-tetrahydro-  
529-34-0 1(2H)-Naphthalenone, 3,4-dihydro-  
542-92-7 1,3-Cyclopentadiene  
553-26-4 4,4'-Bipyridine  
557-61-9 1-Octacosanol  
563-72-4 Ethanedioic acid, calcium salt (1:1)  
590-19-2 1,2-Butadiene  
592-45-0 1,4-Hexadiene  
594-42-3 Methanesulfonyl chloride, trichloro-  
598-72-1 Propanoic acid, 2-bromo-  
617-94-7 Benzenemethanol, .alpha.,.alpha.-dimethyl-  
624-83-9 Methane, isocyanato-  
628-13-7 Pyridine, hydrochloride  
628-96-6 1,2-Ethandiol, dinitrate  
630-20-6 Ethane, 1,1,1,2-tetrachloro-  
645-62-5 2-Hexenal, 2-ethyl-  
693-95-8 Thiazole, 4-methyl-  
756-80-9 Phosphorodithioic acid, O,O-dimethyl ester  
870-72-4 Methanesulfonic acid, hydroxy-, monosodium salt  
928-72-3 Glycine, N-(carboxymethyl)-, disodium salt  
939-97-9 Benzaldehyde, 4-(1,1-dimethylethyl)-  
1000-82-4 Urea, (hydroxymethyl)-  
1002-69-3 Decane, 1-chloro-  
1111-78-0 Carbamic acid, monoammonium salt  
1323-65-5 Phenol, dinonyl-  
1324-76-1 Benzenesulfonic acid, [[4-[[4-(phenylamino)phenyl][4-(phenylimino)-2,5-cyclohexadien-1-ylidene]methyl]phenyl]amino]-  
1401-55-4 Tannins  
1445-45-0 Ethane, 1,1,1-trimethoxy-

1498-51-7 Phosphorodichloridic acid, ethyl ester  
1738-25-6 Propanenitrile, 3-(dimethylamino)-  
1912-24-9 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)-  
2152-64-9 Benzenamine, N-phenyl-4-[[4-(phenylamino)phenyl][4-(phenylimino)-2,5-cyclohexadien-1-ylidene]methyl]-, monohydrochloride  
2210-79-9 Oxirane, [(2-methylphenoxy)methyl]-  
2372-45-4 1-Butanol, sodium salt  
2409-55-4 Phenol, 2-(1,1-dimethylethyl)-4-methyl-  
2425-54-9 Tetradecane, 1-chloro-  
2494-89-5 Ethanol, 2-[(4-aminophenyl)sulfonyl]-, hydrogen sulfate (ester)  
2524-03-0 Phosphorochloridothioic acid, O,O-dimethyl ester  
2524-04-1 Phosphorochloridothioic acid, O,O-diethyl ester  
2691-41-0 1,3,5,7-Tetrazocine, octahydro-1,3,5,7-tetranitro-  
2814-20-2 4(1H)-Pyrimidinone, 6-methyl-2-(1-methylethyl)-  
2905-62-6 Benzoyl chloride, 3,5-dichloro-  
2915-53-9 2-Butenedioic acid (2Z)-, dioctyl ester  
2941-64-2 Carbonochloridothioic acid, S-ethyl ester  
3039-83-6 Ethenesulfonic acid, sodium salt  
3132-99-8 Benzaldehyde, 3-bromo-  
3338-24-7 Phosphorodithioic acid, O,O-diethyl ester, sodium salt  
3386-33-2 Octadecane, 1-chloro-  
3724-65-0 2-Butenoic acid  
3779-63-3 1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1,3,5-tris(6-isocyanatohexyl)-  
3965-55-7 1,3-Benzenedicarboxylic acid, 5-sulfo-, 1,3-dimethyl ester, sodium salt  
4035-89-6 Imidodicarbonic diamide, N,N',2-tris(6-isocyanatohexyl)-  
4170-30-3 2-Butenal  
4316-73-8 Glycine, N-methyl-, monosodium salt  
4719-04-4 1,3,5-Triazine-1,3,5(2H,4H,6H)-triethanol  
4860-03-1 Hexadecane, 1-chloro-  
5026-74-4 Oxiranemethanamine, N-[4-(oxiranylmethoxy)phenyl]-N-(oxiranylmethyl)-  
5216-25-1 Benzene, 1-chloro-4-(trichloromethyl)-  
5460-09-3 2,7-Naphthalenedisulfonic acid, 4-amino-5-hydroxy-, monosodium salt  
5915-41-3 1,3,5-Triazine-2,4-diamine, 6-chloro-N-(1,1-dimethylethyl)-N'-ethyl-  
6381-77-7 D-erythro-Hex-2-enonic acid, .gamma.-lactone, monosodium salt  
6473-13-8 2-Naphthalenesulfonic acid, 6-[(2,4-diaminophenyl)azo]-3-[[4-[[4-[[7-[(2,4-diaminophenyl)azo]-1-hydroxy-3-sulfo-2-naphthalenyl]azo]phenyl]amino]-3-sulfophenyl]azo]-4-hydroxy-, trisodium salt  
  
7795-95-1 1-Octanesulfonyl chloride  
8001-58-9 Creosote  
8005-02-5 C.I. Solvent Black 7  
8007-45-2 Tar, coal  
10265-69-7 Glycine, N-phenyl-, monosodium salt  
13749-94-5 Ethanimidothioic acid, N-hydroxy-, methyl ester  
13826-35-2 Benzenemethanol, 3-phenoxy-  
17103-31-0 Urea, sulfate (2:1)  
17321-47-0 Phosphoramidothioic acid, O,O-dimethyl ester  
17976-43-1 2,4,6,8,3,5,7-Benzotetraoxatriumbacycloundecin-3,5,7-triylidene, 1,9-dihydro-1,9-dioxo-  
19438-61-0 1,3-Isobenzofurandione, 5-methyl-  
19525-59-8 Glycine, N-phenyl-, monopotassium salt  
20068-02-4 2-Butenenitrile, 2-methyl-, (2Z)-  
20227-53-6 Phosphorous acid, 2-(1,1-dimethylethyl)-4-[1-[3-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-methylethyl]phenyl bis(4-nonylphenyl) ester  
21351-39-3 Urea, sulfate (1:1)  
22527-63-5 Propanoic acid, 2-methyl-, 3-(benzoyloxy)-2,2,4-trimethylpentyl ester  
24615-84-7 2-Propenoic acid, 2-carboxyethyl ester

24634-61-5 2,4-Hexadienoic acid, potassium salt, (2E,4E)-  
 24794-58-9 Formic acid, compd. with 2,2',2''-nitrotris[ethanol] (1:1)  
 25154-38-5 Piperazineethanol  
 25168-05-2 Benzene, chloromethyl-  
 25168-06-3 Phenol, (1-methylethyl)-  
 25321-41-9 Benzenesulfonic acid, dimethyl-  
 25377-73-5 2,5-Furandione, 3-(dodecenyl)dihydro-  
 25383-99-7 Octadecanoic acid, 2-(1-carboxyethoxy)-1-methyl-2-oxoethyl ester, sodium salt  
 25646-71-3 Methanesulfonamide, N-[2-[(4-amino-3-methylphenyl)ethylamino]ethyl]-, sulfate (2:3)  
 26377-29-7 Phosphorodithioic acid, O,O-dimethyl ester, sodium salt  
 26401-27-4 Phosphorous acid, isooctyl diphenyl ester  
 26544-38-7 2,5-Furandione, dihydro-3-(tetrapropenyl)-  
 26680-54-6 2,5-Furandione, dihydro-3-(octenyl)-  
 27193-28-8 Phenol, (1,1,3,3-tetramethylbutyl)-  
 27859-58-1 Butanedioic acid, (tetrapropenyl)-  
 28106-30-1 Benzene, ethenylethyl-  
 28188-24-1 Octadecanoic acid, 2-(hydroxymethyl)-2-[[[(1-oxooctadecyl)oxy]methyl]-1,3-propanediyl ester  
 28908-00-1 Benzothiazole, 2-[(chloromethyl)thio]-  
 30574-97-1 2-Butenenitrile, 2-methyl-, (2E)-  
 31138-65-5 D-gluco-Heptonic acid, monosodium salt, (2.xi.)-  
 34689-46-8 Phenol, methyl-, sodium salt  
 35203-06-6 Benzenamine, 2-ethyl-6-methyl-N-methylene-  
 35203-08-8 Benzenamine, 2,6-diethyl-N-methylene-  
 37734-45-5 Carbonochloridithioic acid, S-(phenylmethyl) ester  
 37764-25-3 Acetamide, 2,2-dichloro-N,N-di-2-propenyl-  
 38185-06-7 Benzenesulfonic acid, 4-chloro-3,5-dinitro-, potassium salt  
 38321-18-5 Ethanol, 2-(2-butoxyethoxy)-, sodium salt  
 39515-51-0 Benzaldehyde, 3-phenoxy-  
 40630-63-5 1-Octanesulfonyl fluoride  
 40876-98-0 Butanedioic acid, oxo-, diethyl ester, ion(1-), sodium  
 51632-16-7 Benzene, 1-(bromomethyl)-3-phenoxy-  
 52184-19-7 Phenol, 2,4-bis(1,1-dimethylpropyl)-6-[(2-nitrophenyl)azo]-  
 52556-42-0 1-Propanesulfonic acid, 2-hydroxy-3-(2-propenyloxy)-, monosodium salt  
 52663-57-7 Ethanol, 2-butoxy-, sodium salt  
 56803-37-3 Phosphoric acid, (1,1-dimethylethyl)phenyl diphenyl ester  
 57693-14-8 Chromate(3-), bis[3-(hydroxy-.kappa.O)-4-[[2-(hydroxy-.kappa.O)-1-naphthalenyl]azo-.kappa.N1]-7-nitro-1-naphthalenesulfonato(3-)]-, trisodium  
  
 61788-44-1 Phenol, styrenated  
 61788-76-9 Alkanes, chloro  
 61789-85-3 Sulfonic acids, petroleum  
 61790-13-4 Naphthenic acids, sodium salts  
 63302-49-8 Phosphorochloridous acid, bis(4-nonylphenyl) ester  
 64743-02-8 Alkenes, C>10 .alpha.-  
 64743-03-9 Phenols, petroleum  
 65652-41-7 Phosphoric acid, bis[(1,1-dimethylethyl)phenyl] phenyl ester  
 65996-78-3 Light oil, coal, coke-oven  
 65996-79-4 Solvent naphtha, coal  
 65996-82-9 Tar oils, coal  
 65996-83-0 Extracts, coal tar oil alk.  
 65996-86-3 Extract oils, coal, tar base  
 65996-87-4 Extract residues, coal, tar oil alk.  
 65996-89-6 Tar, coal, high-temp.

65996-91-0 Distillates, coal tar, upper  
65996-92-1 Distillates, coal tar  
66241-11-0 C.I. Leuco Sulphur Black 1  
67763-14-8 Phosphoric acid, mono(2-ethylhexyl) ester, compd. with tert-dodecanamine  
68081-86-7 Phenol, nonyl derivs.  
68082-78-0 Lard, oil, Me esters  
68131-13-5 Naphthenic acids, reaction products with diethylenetriamine  
68153-60-6 Fatty acids, tall-oil, reaction products with diethylenetriamine, acetates  
68187-41-7 Phosphorodithioic acid, O,O-di-C1-14-alkyl esters  
68187-57-5 Pitch, coal tar-petroleum  
68187-59-7 Coal, anthracite, calcined  
68187-76-8 Castor oil, sulfated, sodium salt  
68187-84-8 Castor oil, oxidized  
68188-18-1 Paraffin oils, chlorosulfonated, saponified  
68308-74-7 Amides, tall-oil fatty, N,N-di-Me  
68309-16-0 Fatty acids, tall-oil, 2-(2-hydroxyethoxy)ethyl esters  
68309-27-3 Fatty acids, tall-oil, sulfonated, sodium salts  
68334-01-0 Disulfides, alkylaryl dialkyl diaryl, petroleum refinery spent caustic oxidn. products  
68441-66-7 Decanoic acid, mixed esters with dipentaerythritol, octanoic acid and valeric acid  
68442-60-4 Acetaldehyde, reaction products with formaldehyde, by-products from  
68442-77-3 2-Butenediamide, (2E)-, N,N'-bis[2-(4,5-dihydro-2-nortall-oil alkyl-1H-imidazol-1-yl)ethyl] derivs.  
68457-74-9 Phenol, isobutylenated methylstyrenated  
68479-98-1 Benzenediamine, ar,ar-diethyl-ar-methyl-  
68513-62-2 Disulfides, C5-12-alkyl  
68515-89-9 Barium, carbonate nonylphenol complexes  
68527-02-6 Alkenes, C12-24, chloro  
68527-22-0 Naphtha, petroleum, clay-treated light straight-run  
68584-25-8 Benzenesulfonic acid, C10-16-alkyl derivs., compds. with triethanolamine  
68602-81-3 Distillates, hydrocarbon resin prodn. higher boiling  
68607-28-3 Quaternary ammonium compounds, (oxydi-2,1-ethanediyl)bis[coco alkyl dimethyl, dichlorides  
68608-59-3 Ethane, 1,2-dichloro-, manuf. of, by-products from, distn. lights  
68609-04-1 Cyclohexane, oxidized, non-acidic by-products, distn. residues  
68609-05-2 Cyclohexane, oxidized, non-acidic by-products, distn. lights  
68610-90-2 2-Butenedioic acid (2E)-, di-C8-18-alkyl esters  
68611-64-3 Urea, reaction products with formaldehyde  
68647-60-9 Hydrocarbons, C>4  
68649-42-3 Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts  
68650-36-2 Aromatic hydrocarbons, C8, o-xylene-lean  
68782-97-8 Distillates, petroleum, hydrofined lubricating-oil  
68815-50-9 Octadecanoic acid, reaction products with 2-[(2-aminoethyl)amino]ethanol  
68909-77-3 Ethanol, 2,2'-oxybis-, reaction products with ammonia, morpholine derivs. residues  
68915-05-9 Fatty acids, tall-oil, low-boiling, reaction products with ammonia-ethanolamine reaction by-products  
68915-39-9 Cyclohexane, oxidized, aq. ext., sodium salt  
68918-16-1 Tar, coal, dried and oxidized  
68919-17-5 Hydrocarbons, C12-20, catalytic alkylation by-products  
68920-64-9 Disulfides, di-C1-2-alkyl  
68937-29-1 1,6-Hexanediol, distn. residues  
68937-69-9 Carboxylic acids, C6-18 and C5-15-di-  
68938-96-5 Benzene, phenoxytetrapropylene-  
68953-80-0 Benzene, mixed with toluene, dealkylation product  
68955-37-3 Acid chlorides, tallow, hydrogenated  
68955-76-0 Aromatic hydrocarbons, C9-16, biphenyl deriv.-rich

68987-41-7 Benzene, ethylenated  
68987-66-6 Ethene, hydrated, by-products from  
68988-22-7 1,4-Benzenedicarboxylic acid, dimethyl ester, manuf. of, by-products from  
68990-61-4 Tar, coal, high-temp., high-solids  
68990-65-8 Fats and Glyceridic oils, vegetable, reclaimed  
70084-98-9 Terpenes and Terpenoids, C10-30, distn. residues  
70693-50-4 Phenol, 2,4-bis(1-methyl-1-phenylethyl)-6-[(2-nitrophenyl)azo]-  
70851-08-0 Amides, coco, N-[3-(dimethylamino)propyl], alkylation products with sodium 3-chloro-2-hydroxypropanesulfonate  
71077-05-9 Ethanol, 2,2'-oxybis-, reaction products with ammonia, morpholine product tower residues  
72162-15-3 1-Decene, sulfurized  
72854-27-4 Tannins, reaction products with sodium bisulfite, sodium polysulfide and sodium sulfite  
73665-18-6 Extract residues, coal, tar oil alk., naphthalene distn. residues  
83864-02-2 Nickel, bis[(cyano-C)triphenylborato(1-)-N]bis(hexanedinitrile-N,N')-  
84501-86-0 Hexanedioic acid, esters with high-boiling C6-10-alkene hydroformylation products  
90640-80-5 Anthracene oil  
90640-86-1 Distillates, coal tar, heavy oils  
119345-02-7 Benzene, 1,1'-oxybis-, tetrapropylene derivs.  
125997-20-8 Phosphoric acid, mixed 3-bromo-2,2-dimethylpropyl and 2-bromoethyl and 2-chloroethyl esters