

OMB Control No. 2070-0054; EPA ICR No. 0586.11

Attachment H

List of Chemicals Covered by Final PAIR Rules, 2004-2007

Chemicals Listed in December 7, 2004 Section 8(a) PAIR - 69 FR 70552

<u>CAS No.</u>	<u>Substance</u>
* * * * * Pyridinamines:	
462-08-8	3-Pyridinamine.
504-24-5	4-Pyridinamine.
504-29-0	2-Pyridinamine
* * * * * Tungsten compounds:	
1314-35-8	Tungsten oxide (WO ₃)
7440-33-7	Tungsten
7783-03-1	Tungstate (WO ₄ \2\^-), dihydrogen, (T- 4)
7783-82-6	Tungsten fluoride (WF ₆), (OC-6-11)
7790-60-5	Tungstate (WO ₄ \2\^-), dipotassium, (T-4)
7790-85-4	Cadmium tungsten oxide (CdWO ₄)
10213-10-2	Tungstate (WO ₄ \2\^-), disodium, dihydrate, (T-4)
11105-11-6	Tungsten oxide (WO ₃), hydrate
11120-01-7	Sodium tungsten oxide
11120-25-5	Tungstate (W ₁₂ (OH) ₂ O ₄₀ \10\^-), decaammonium.
12027-38-2	Tungstate(4-),[.mu.12- [orthosilicato(4-)- .kappa.O:.kappa.O:.kappa.O:.kappa.O':.kappa.O':.kappa.O': .kappa.O":.kappa.O" :.kappa.O" :.kappa.O":.kappa.O" :.kappa.O""]]tetracosa- .mu.- oxododecaoxododeca-, tetrahydrogen.
12028-48-7	Tungstate (W ₁₂ (OH) ₂ O ₃₈ \6\^-), hexaammonium.
12036-22-5	Tungsten oxide (WO ₂)
12067-99-1	Tungsten hydroxide oxide phosphate.
12138-09-9	Tungsten sulfide (WS ₂)
12141-67-2	Tungstate (W ₁₂ (OH) ₂ O ₃₈ \6\^-), hexasodium.
13283-01-7	Tungsten chloride (WCl ₆), (OC-6-11)-
13472-45-2	Tungstate (WO ₄ \2\^-), disodium, (T- 4)-.
14040-11-0	Tungsten carbonyl (W(CO) ₆), (OC-6- 11)-.
23321-70-2	Tungsten oxide (WO ₃), dihydrate.

Chemicals Listed in August 16, 2006 Section 8(a) PAIR - 71 FR 47122

* * * * * Voluntary HPV Challenge Program orphan (unsponsored) chemicals

<u>CAS No.</u>	<u>Substance</u>
62-56-6	Thiourea.
74-97-5	Methane, bromochloro-.
75-46-7	Methane, trifluoro-..
77-76-9	Propane, 2,2-dimethoxy-
77-86-1	1,3-Propanediol, 2- amino-2- (hydroxymethyl)-.
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-.
84-69-5	1,2- Benzenedicarboxylic acid, bis(2- methylpropyl) ester.
85-40-5	1H-Isoindole-1,3(2H)- dione, 3a,4,7,7a- tetrahydro-.
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)-.
99-51-4	Benzene, 1,2-dimethyl- 4-nitro-.
100-64-1	Cyclohexanone, oxime..
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- .
104-93-8	Benzene, 1-methoxy-4- methyl-.
107-39-1	1-Pentene, 2,4,4- trimethyl-.
107-40-4	2-Pentene, 2,4,4- trimethyl-.
107-45-9	2-Pentanamine, 2,4,4- trimethyl-.
110-18-9	1,2-Ethanediamine, N,N,N',N'-tetramethyl-.

110-33-8	Hexanedioic acid, dihexyl ester.
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-.
118-90-1	Benzoic acid, 2-methyl-.
119-33-5	Phenol, 4-methyl-2- nitro-.
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- .
137-20-2	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.
142-73-4	Glycine, N- (carboxymethyl)-.
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..
557-61-9	1-Octacosanol.
563-72-4	Ethanedioic acid, calcium salt (1:1).
579-66-8	Benzenamine, 2,6- diethyl-.
590-19-2	1,2-Butadiene....
592-45-0	1,4-Hexadiene.
598-72-1	Propanoic acid, 2- bromo-.

617-94-7		Benzenemethanol, .alpha.,.alpha.- dimethyl-.
628-13-7		Pyridine, hydrochloride.
628-96-6		1,2-Ethanediol, dinitrate.
645-62-5		2-Hexenal, 2-ethyl-..
693-07-2		Ethane, 1-chloro-2- (ethylthio)-.
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.
1115-20-4		Propanoic acid, 3- hydroxy-2,2-dimethyl-, 3-hydroxy-2,2-dimethylpropyl ester.
1401-55-4		Tannins.
1445-45-0		Ethane, 1,1,1- trimethoxy-.
1459-93-4		1,3-Benzenedicarboxylic acid, dimethyl ester.
1498-51-7		Phosphorodichloridic acid, ethyl ester.
1558-33-4		Silane, dichloro(chloromethyl) methyl-.
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.
2611-00-9		3-Cyclohexene-1- carboxylic acid, 3- cyclohexen-1-ylmethyl 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.
3039-83-6	Ethenesulfonic acid, sodium salt.
3088-31-1	Ethanol, 2-[2- (dodecyloxy)ethoxy]-, hydrogen sulfate, 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-.
3710-84-7	Ethanamine, N-ethyl-N- hydroxy-.
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.
4860-03-1	Hexadecane, 1-chloro-.
5026-74-4	Oxiranemethanamine, N- [4- (oxiranylmethoxy)pheny l]-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-.
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]pheny l]amino]-3- sulfophenyl]azo]-4- hydroxy-, trisodium salt.
6863-58-7	Butane, 2,2'-oxybis-.
6865-35-6	Octadecanoic acid, barium salt.
7320-37-8	Oxirane, tetradecyl-..
7795-95-1	1-Octanesulfonyl chloride.
8001-58-9	Creosote.
10265-69-7	Glycine, N-phenyl-, monosodium salt.
13749-94-5	Ethanimidothioic acid, N-hydroxy-, methyl ester.
13826-35-2	Benzenemethanol, 3- phenoxy-.
14666-94-5	9-Octadecenoic acid (9Z)-, cobalt salt.

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- Benzotetraoxatriplumba cycloundecin-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.
20469-71-0	Hydrazinecarbodithioic acid, compd. with hydrazine (1:1).
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.
24794-58-9	Formic acid, compd. with 2,2,2"- nitrilotris[ethanol] (1:1).
25154-38-5	Piperazineethanol.
25168-05-2	Benzene, chloromethyl-,
25168-06-3	Phenol, (1- methylethyl)-.
25321-41-9	Benzenesulfonic acid, dimethyl-.
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)ethylamin o]ethyl]-, sulfate (2:3).
26377-29-7	Phosphorodithioic acid, O,O-dimethyl ester, sodium salt.
26401-27-4	Phosphorous acid, isoctyl diphenyl ester.
26680-54-6	2,5-Furandione, dihydro-3-(octenyl)-.
27193-28-8	Phenol, (1,1,3,3- tetramethylbutyl)-.
28106-30-1	Benzene, ethenylethyl-
28188-24-1	Octadecanoic acid, 2- (hydroxymethyl)-2-[[1-oxooctadecyl)oxy]methy l]-1,3-propanediyl ester.
28777-98-2	2,5-Furandione, dihydro-3- (octadecenyl)-.
28908-00-1	Benzothiazole, 2- [(chloromethyl)thio]-.
30574-97-1	2-Butenenitrile, 2- methyl-, (2E)-.
32072-96-1	2,5-Furandione, 3- (hexadecenyl)dihydro-.

33509-43-2	1,2,4-Triazin-5(2H)- one, 4-amino-6-(1,1- dimethylethyl)-3,4-dihydro-3-thioxo-.
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	Carbonochloridothioic 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.
61789-32-0	Fatty acids, coco, 2- sulfoethyl esters, sodium salts.
61789-85-3	Sulfonic acids, petroleum.
63302-49-8	Phosphorochloridous acid, bis(4- nonylphenyl) ester.
64743-02-8	Alkenes, C>10 .alpha.-
64743-03-9	Phenols (petroleum).
65996-79-4	Solvent naphtha (coal)
65996-80-7	Ammonia liquor (coal).
65996-81-8	Fuel gases, coke-oven.
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)
66071-94-1	Corn, steep liquor.
68081-86-7	Phenol, nonyl derivs..
68082-78-0	Lard, oil, Me esters..
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.
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, isobutyleneated methylstyrenated.
68476-80-2	Fats and Glyceridic oils, vegetable, deodorizer distillates.
68478-20-6	Residues (petroleum), steam-cracked petroleum distillates cyclopentadiene conc., C4-cyclopentadiene- free.
68513-62-2	Disulfides, C5-12-alkyl
68514-41-0	Ketones, C12-branched.
68515-89-9	Barium, carbonate nonylphenol complexes.
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.
68603-84-9	Carboxylic acids, C5-9

68608-59-3	Ethane, 1,2-dichloro-, manuf. of, by-products from, distn. lights.
68609-05-2	Cyclohexane, oxidized, non-acidic by- products, distn. lights.
68610-90-2	2-Butenedioic acid (2E)- , di-C8-18-alkyl esters.
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]ethan ol.
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.
68937-29-1	1,6-Hexanediol, distn. residues.
68937-69-9	Carboxylic acids, C6- 18 and C5-15-di-.
68937-70-2	Carboxylic acids, C6- 18 and C8-15-di-.
68937-72-4	Carboxylic acids, di-, C4-11.
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- hydroxypropanesulfonat e.
71077-05-9	Ethanol, 2,2'-oxybis-, reaction products with ammonia, morpholine product tower residues.

72162-15-3	1-Decene, sulfurized
72162-28-8	2-Propanone, reaction products with phenol.
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.