

OMB Control No. 2070-0054; EPA ICR No. 0586.13

Attachment G

List of Chemicals Covered by Final PAIR Rules, 2004-2010

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-.

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| 628-13-7 | Pyridine, hydrochloride. |
| 628-96-6 | 1,2-Ethandiol, 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. |

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| 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)ethylamino]ethyl]-, sulfate (2:3).

26377-29-7 Phosphorodithioic acid, O,O-dimethyl ester, sodium salt.

26401-27-4 Phosphorous acid, isooctyl 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-(1-oxooctadecyl)oxy]methyl]-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.

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| 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-jjjjjjjjjjlean.

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.

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- hydroxypropanesulfonate.

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.