

**APPENDIX G**  
**Chemicals Requiring Designated Areas:**  
**Select Carcinogens, Reproductive Toxins, and**  
**Substances Which Have a High Degree of Acute Toxicity**  
 Partly revised summer 2003

This list is revised periodically to reflect changes in the publications used as references (National Toxicology Program, OSHA regulations, and International Agency for Research on Cancer). Contact the REM Industrial Hygiene section at 46113 to inquire about the most recent updates.

1-(2-Chloroethyl)-3-(4-methylcyclohexyl)-1-nitrosourea	[13909-09-6]	3,3'-Dimethylbenzidine dihydrochloride	[612-82-8]
1-(2-Chloroethyl)-3-cyclohexyl-1-nitrosourea (CCNU,	[13010-47-4]	3,7-Dinitrofluoranthene	[105735-71-5]
1,1,2,2-Tetrachloroethane	[79-34-5]	3,9-Dinitrofluoranthene	[22506-53-2]
1,1,2-trichloroethane (vinyl trichloride)	[79-00-5]	3-Amino-9-ethylcarbazole hydrochloride	[6109-97-3]
1,1-Dichloroethane	[75-34-3]	3-Bromopropyne (Propargyl Bromide)	[106-96-7]
1,1-Dichloroethylene (vinylidene chloride)	[75-35-4]	3-Methylcholanthrene	[56-49-5]
1,1-dimethylhydrazine (UDMH)	[57-14-7]	4-(N-Nitrosomethylamino)-1-(3-pyridyl)-1-butanone (NNK)	[64091-91-4]
1,2,3-Trichloropropane	[96-18-4]	4,4'-diaminodiphenyl ether (4,4'-oxydianiline)	[101-80-4]
1,2-dibromo-3-chloropropane (DBCP, Fumazone)	[96-12-8]	4,4'-Methylene bis(2-methylaniline)	[838-88-0]
1,2-Dichloropropane	[78-87-5]	4,4'-Methylenebis(2-chloraniline) (MBOCA)	[101-14-4]
1,2-Diethylhydrazine	[1615-80-1]	4,4'-methylenebis(N,N-dimethylaniline)	[101-61-1]
1,2-Dimethylhydrazine	[540-73-8]	4,4'-Methylenedianiline (4,4'-diaminodiphenylmethane)	[101-77-9]
1,3-Butadiene	[106-99-0]	4,4'-Methylenedianiline Dihydrochloride	[13552-44-8]
1,3-Dichloropropene	[542-75-6]	4,4'-Thiodianiline	[139-65-1]
1,3-Propane sultone	[1120-71-4]	4-Amino-2-nitrophenol	[119-34-6]
1,4-butanediol dimethanesulfonate (Busulphan, Myleran)	[55-98-1]	4-aminodiphenyl (4-aminobiphenyl)	[92-67-1]
1,4-Dichloro-2-butene	[764-41-0]	4-Chloro-o-phenylenediamine	[95-83-0]
1,4-Dioxane	[123-91-1]	4-dimethylaminoazobenzene (p-dimethylaminoazobenzene )	[60-11-7]
1,6-Dinitropyrene	[42397-64-8]	4-Nitrobiphenyl (4-Nitrodiphenyl)	[92-93-3]
1,8-Dihydroxyanthraquinone (Danthron, Chrysazin)	[117-10-2]	4-Nitropyrene	[57835-92-4]
1,8-Dinitropyrene	[42397-65-9]	4-vinyl-1-cyclohexene diepoxide (vinyl cyclohexenedioxide)	[106-87-6]
1-[(5-nitrofurfurylidene)-amino]-2-imidazolidinone (Nifuradene)	[555-84-0]	4-Vinylcyclohexene	[100-40-3]
1-Amino-2,4-dibromoanthraquinone	[81-49-2]	5-(Morpholinomethyl)-3-[(5-nitro-furfurylidene)-amino]-2-	[139-91-3]
1-Amino-2-methylanthraquinone	[82-28-0]	5-(Morpholinomethyl)-3-[(5-nitrofurfurylidene)amino]-2-	[3795-88-8]
1-Chloro-1-nitroethane	[598-92-5]	5-Chloro-o-toluidine	[94-79-4]
1-Chloro-2,4-Dinitrobenzene	[97-00-7]	5-chloro-o-toluidine, strong acid salts	
1-Nitropyrene	[5522-43-0]	5-Fluorouracil	[51-21-8]
2-(2-Formylhydrazino)-4-(5-nitro-2-furyl)thiazole	[3570-75-0]	5-Methoxy psoralen (bergapten, heraclin, majudine)	[484-20-8]
2, 4, 5-Trichlorophenol	[95-95-4]	5-Methylchrysene	[3697-24-3]
2,2-Bis(bromomethyl)-1,3-propanediol	[3296-90-0]	5-Nitroacenaphthene	[602-87-9]
2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD)	[1746-01-6]	5-Nitro-o-anisidine	[99-59-2]
2,3-Dibromo-1-propanol	[96-13-9]	6-methyl-2-thiouracil (methylthiouracil)	[56-04-2]
2,4,5-Trimethylaniline	[137-17-7]	6-Nitrochrysene	[7496-02-8]
2,4,5-Trimethylaniline and its strong acid salts		7,12-Dimethylbenz(a)anthracene	[57-97-6]
2,4,6-Trichlorophenol	[88-06-2]	7H-Dibenzof[c,g]carbazole	[194-59-2]
2,4-Diaminoanisole	[615-05-4]	A-alpha-C (2-Amino-9H-pyrido[2,3-b]indole)	[26148-68-5]
2,4-Diaminotoluene	[95-80-7]	Acetaldehyde	[75-07-0]
2,4-Dichlorophenoxyacetic acid (2,4-D)	[94-75-7]	Acetamide	[60-35-5]
2,4-Dichlorophenyl-p-nitrophenyl ether (nitrofen)	[1836-75-5]	Acetochlor	[34256-82-1]
2,4-Dinitroaniline	[97-02-9]	Acetohydroxamic acid	[546-88-3]
2,4-Dinitrotoluene	[121-14-2]	Acetylene tetrabromide	[79-27-6]
2,6-Dimethylaniline (2,6-Xylidine)	[87-62-7]	Acifluorfen	[62476-59-9]
2,6-Dinitrotoluene	[606-20-2]	Acrolein (2-Propenal)	[107-02-8]
2-Acetylamino fluorene	[53-96-3]	Acrylamide	[79-06-1]
2-Amino-1-methyl-6-phenylimidazo[4,5-b]pyridine (PhIP)	[105650-23-5]	Acrylonitrile	[107-13-1]
2-Amino-3,4-dimethylimidazo[4,5-f]quinoline (MeIQ)	[77094-11-2]	Acrylyl Chloride	[814-68-6]
2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole	[59716-87-9]	Actinomycin D	[50-76-0]
2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole	[712-68-5]	Adriamycin (Doxorubicin hydrochloride)	[23214-92-8]
2-Aminoanthraquinone	[117-79-3]	Aflatoxin	[7220-81-7]
2-Amino fluorene	[153-78-6]	Aflatoxin M1	[6795-23-9]
2-Aminopyridine	[504-29-0]	Aflatoxins	[1402-68-2]
2-Methyl-1-nitroanthraquinone	[129-15-7]	Alachlor	[15972-60-8]
2-Nitrofluorene	[607-57-8]	Aldrin	[309-00-2]
2-Nitropropane	[79-46-9]	Alkylaluminums	
3-(N-Nitrosomethylamino)propionitrile	[60153-49-3]	all-trans retinoic acid	[302-79-4]
3,3'-Dichloro-4,4'-diaminodiphenyl ether	[28434-86-8]	Allyl alcohol [2-Propen-1-ol]	[107-18-61]
3,3'-Dichlorobenzidine	[91-94-1]	Allyl chloride	[107-05-1]
3,3'-Dichlorobenzidine dihydrochloride	[612-83-9]	Allylamine	[107-11-9]
3,3'-Dimethoxybenzidine (o-dianisidine)	[119-90-4]	alpha-Hexachlorocyclohexane	[319-84-6]
3,3'-dimethoxybenzidine dihydrochloride (o-dianisidine)	[20325-40-0]	alpha-Naphthylamine (1-naphthylamine)	[134-32-7]
3,3'-dimethylbenzidine (o-tolidine)	[119-93-7]	Alprazolam	[28981-97-7]

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Amikacin sulfate	[39831-55-5]	Bromine Chloride	[13863-41-7]
Aminoglutethimide	[125-84-8]	Bromine Pentafluoride	[7789-30-2]
Aminoglycosides		Bromine Trifluoride	[7787-71-5]
Aminopterin	[54-62-6]	Bromodichloromethane	[75-27-4]
Amiodarone hydrochloride	[19774-82-4]	Bromoform	[75-25-2]
Amitrole (3-amino-1,2,4-triazole)	[61-82-5]	Bromoxynil	[1689-84-5]
ammonia (gas, liquified)	[7664-41-7]	Butabarbital sodium	[143-81-7]
Ammonium Perchlorate	[7790-98-9]	Butyl Hydroperoxide (Tertiary)	[75-91-2]
Ammonium Permanganate	[7787-36-2]	Butyl Perbenzoate (Tertiary)	[614-45-9]
Amoxapine	[14028-44-5]	Butylated Hydroxyanisole (BHA)	[25013-16-5]
Anabolic steroids (androgenic steroids)		C.I. 12055 (C.I. Solvent Yellow 14, Sudan I)	[842-07-9]
Analgesic mixtures containing phenacetin		C.I. 12075 (D&C Orange No. 17, Permanent Orange)	[3468-63-1]
Angiotensin converting enzyme (ACE) inhibitors		C.I. 12100 (Oil Orange SS)	[2646-17-5]
Aniline	[62-53-3]	C.I. 12156 (C.I. solvent red 80, Citrus Red No. 2)	[6358-53-8]
Aniline hydrochloride	[142-04-1]	C.I. 15585 (D&C Red No. 8)	[2092-56-0]
Anisindione	[117-37-3]	C.I. 15585:1 (D&C Red No. 9)	[5160-02-1]
Antimony oxide (Antimony trioxide)	[1309-64-4]	C.I. 16150 (Xylidine Ponceau 2R, Ponceau MX, D&C Red No.)	[3761-53-3]
Aramite (butylphenoxisopropyl chloroethyl sulfite)	[140-57-8]	C.I. 16155 (Ponceau 3R, D&C Red No. 15)	[3564-09-8]
Aroclor	[12767-79-2]	C.I. 22610 (Direct Blue 6)	[2602-46-2]
Aroclor 1254	[11097-69-1]	C.I. 23635 (C. I. Acid Red 114)	[6459-94-5]
Aroclor 1260	[11096-82-5]	C.I. 23850 (C.I. Direct blue 14, Trypan blue)	[72-57-1]
arsenic and all its compounds		C.I. 24400 (C.I. Direct Blue 15)	[2429-74-5]
Asbestos (amosite)	[12172-73-5]	C.I. 24401 (C.I. Direct Blue 218)	[28407-37-6]
Asbestos (ascanite, tremolite)	[1332-21-4]	C.I. 41000B (C.I. Basic Yellow 2, Auramine, (Brilliant Oil)	[492-80-8]
Asbestos (crocidolite)	[12001-28-4]	C.I. 42500 (Basic Red 9 monohydrochloride, pararosanilin)	[569-61-9]
Asbestos (serpentine chrysotile)	[12001-29-5]	C.I. 42640 (Benzyl violet 4B )	[1694-09-3]
Aspirin	[50-78-2]	C.I. 45170 (D&C Red No. 19, Rhodamine B, Basic Violet 10))	[81-88-9]
Atenolol	[29122-68-7]	C.I. 64500 (Disperse Blue 1)	[2475-45-8]
Atrazine	[1912-24-9]	Cacodylic acid	[75-60-5]
Auramine O	[2465-27-2]	Cadmium	[7440-43-9]
Azacytidine (Azacitidine, Mylosar, 5-azacytidine)	[320-67-2]	Cadmium Chloride	[10108-64-2]
Azaserine	[115-02-6]	cadmium compounds	
Azathioprine	[446-86-6]	Cadmium Oxide	[1306-19-0]
Azobenzene	[103-33-3]	Cadmium Sulfate	[10124-36-4]
Barbiturates		Cadmium Sulfide	[1306-23-6]
Beclomethasone dipropionate	[5534-09-8]	Caffeic acid	[331-39-5]
Benomyl	[17804-35-2]	Calcium arsenate	[7778-44-1]
benz[a]anthracene (benzo[a]anthracene)	[56-55-3]	Captafol	[2425-06-1]
benzal chloride (benzylidene chloride, alpha, alpha-	[98-87-3]	Captafol (Crisfolatan, Difolatan, Folcid)	[2939-80-2]
Benzene	[71-43-2]	Captan	[133-06-2]
Benzidine	[92-87-5]	Carbaryl (Sevin)	[63-25-2]
benzidine salts		Carbazole	[86-74-8]
Benzidine-based dyes		Carbon black	[1333-86-4]
Benzo[a]pyrene	[50-32-8]	Carbon disulfide	[75-15-0]
Benzo[b]fluoranthene	[205-99-2]	Carbon monoxide	[630-08-0]
Benzo[j]fluoranthene	[205-82-3]	Carbon tetrachloride	[56-23-5]
Benzo[k]fluoranthene	[207-08-9]	Carbon-black extracts	
Benzodiazepines		Carbonyl Fluoride	[353-50-4]
Benzofuran	[271-89-6]	Carboplatin	[41575-94-4]
Benzotrichloride (alpha, alpha, alpha-trichlorotoluene)	[98-07-7]	Carrageenan, degraded	[9000-07-1]
Benzphetamine hydrochloride	[5411-22-3]	Cellulose Nitrate (concentration greater than 12.6% nitrogen)	[9004-70-0]
benzyl chloride (alpha-chlorotoluene)	[100-44-7]	Ceramic fibers (airborne particles of respirable size)	
Beryl Ore	[1302-52-9]	Chenodiol	[474-25-9]
beryllium	[7440-41-7]	Chinomethionat (Oxythioquinox)	[2439-01-2]
Beryllium Aluminum Alloy	[12770-50-2]	Chlorambucil	[305-03-3]
beryllium chloride	[7787-47-5]	Chloramphenicol (chloromycetin)	[56-75-7]
beryllium and all of its compounds		Chlorcyclizine hydrochloride	[1620-21-9]
Beryllium Phosphate	[13598-15-7]	Chlordane	[57-74-9]
Beryllium sulfate tetrahydrate	[7787-56-6]	Chlordecone (Kepone)	[143-50-0]
beryllium zinc silicate (zinc beryllium silicate )	[39413-47-3]	Chlordiazepoxide	[58-25-3]
beta-Butyrolactone	[3068-88-0]	Chlordiazepoxide hydrochloride	[438-41-5]
beta-Hexachlorocyclohexane	[319-85-7]	Chlordimeform	[6164-98-3]
beta-naphthylamine (C.I. 37270, 2-aminonaphthalene)	[91-59-8]	Chlorendic acid	[115-28-6]
beta-Propiolactone	[57-57-8]	Chlorinated Paraffins (avg C12 , 60% Chlorine)	[108171-26-2]
Betel quid with tobacco		Chlorine	[7782-50-5]
Bis(2-chloroethyl)ether	[111-44-4]	Chlorine dioxide	[10049-04-4]
Bis(2-ethylhexyl) Phthalate (Diocyl phthalate , Di-sec-octyl	[117-81-7]	Chlorine Pentafluoride	[13637-63-3]
bis(chloromethyl) ether	[542-88-1]	Chlorine Trifluoride	[7790-91-2]
bischloroethyl nitrosourea (BCNU, Carmustine)	[154-93-8]	Chlornaphazine (N,N-bis(2-chloroethyl)-2-naphthylamine)	[494-03-1]
Bitumens , extracts of steam-refined and air-refined	[8052-42-4]	Chlorodibromomethane	[124-48-1]
Bitumens, extracts of steam-refined and air refined		Chlorodiethylaluminum (also called Diethylaluminum Chloride)	[96-10-6]
Bleomycins	[11056-06-7]	Chloroethane (Ethyl chloride)	[75-00-3]
Boron Trichloride	[10294-34-5]	Chlorofluoromethane (fluorocarbon 31)	[593-70-4]
Boron trifluoride	[7637-07-2]	Chloroform	[67-66-3]
Boron trifluoride compound with methyl ether	[353-42-4]	chloromethyl methyl ether (methyl chloromethyl ether)	[107-30-2]
Bracken fern		Chlorophenols	
Bromine	[7726-95-6]	Chlorophenoxy herbicides	

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Chloropicrin	[76-06-2]	Dichlorvos (No-Pest Strip, 2,2-dichloroethyl dimethyl	[62-73-7]
Chloropicrin and Methyl Bromide mixture		Dicumarol	[66-76-2]
Chloropicrin and Methyl Chloride mixture		Dieldrin	[60-57-1]
Chloroprene (2-chloro-1,3-butadiene)	[126-99-8]	Dienestrol	[84-17-3]
Chlorothalonil	[1897-45-6]	Diepoxybutane	[1464-53-5]
Chlorotrianisene	[569-57-3]	Diesel engine exhaust	
Chlorozotocin	[54749-90-5]	Diethyl sulfate	[64-67-5]
Chromium Hexavalent Compounds		Diethylstilbestrol (DES)	[56-53-1]
Chrysene	[218-01-9]	Diethylzinc	[557-20-0]
Ciclosporin (Cyclosporine, Sandimmune, Neoral)	[79217-60-0]	Diglycidyl ether (di(2,3-epoxypropyl) ether)	[2238-07-5]
Cinnamyl anthranilate	[87-29-6]	diglycidyl resorcinol ether (DGRE)	[101-90-6]
Cisplatin	[15663-27-1]	Dihydroergotamine mesylate	[6190-39-2]
Cladribine	[4291-63-8]	Dihydrosafrole	[94-58-6]
Clarithromycin	[81103-11-9]	Diisopropyl Peroxydicarbonate	[105-64-6]
Clobetasol propionate	[25122-46-7]	Diisopropyl sulfate	[2973-10-6]
Clofibrate	[637-07-0]	Dilauroyl Peroxide	[105-74-8]
Clomiphene citrate	[50-41-9]	Dimethyl sulfate (methyl sulfate)	[77-78-1]
Clorazepate dipotassium	[57109-90-7]	Dimethylamine, Anhydrous	[124-40-3]
Coal tars (coke oven emissions)	[8007-45-2]	Dimethyldichlorosilane	[75-78-5]
Coal-tar pitches	[65996-93-2]	Dimethyldisulfide	[624-92-0]
Cobalt (powder)	[7440-48-4]	Dimethylformamide	[68-12-2]
Cobalt [II] oxide	[1307-96-6]	Dimethylsulfide (methyl sulfide)	[75-18-3]
cobalt compounds		dimethylvinyl chloride (1-chloro-2-methylpropene)	[513-37-1]
Cocaine	[50-36-2]	Dinitrotoluene	[25321-14-6]
Codeine phosphate	[52-28-8]	Dinitrotoluene mixture, 2,4-/2,6-	
Coke Oven Emissions		Dinocap	[39300-45-3]
Coke oven emissions		Dinoseb	[88-85-7]
Colchicine	[64-86-8]	Di-n-propyl isocinchomeronate (MGK Repellent 326)	[136-45-8]
Commune Hydroperoxide	[80-15-9]	Dioxathion	[78-34-2]
creosote (coal tar creosote, creosote oil, liquid pitch oil)	[8001-58-9]	diphenylhydantoin (phenytoin)	[57-41-0]
creosote (wood creosote)	[8021-39-4]	Diphenylhydantoin (Phenytoin), sodium salt	[630-93-3]
resols		Direct Black 38	[1937-37-7]
Crotonaldehyde (E)- [2-Butenal, (E)-]	[123-73-9]	Direct Brown 95 (technical grade)	[16071-86-6]
Crotonaldehyde [2-Butenal]	[4170-30-3]	Di-t-butyl Peroxide	[110-05-4]
Cupferron (ammonium N-nitrosophenylhydroxylamine)	[135-20-6]	Doxorubicin hydrochloride (Adriamycin)	[25316-40-9]
Cyanazine	[21725-46-2]	Doxycycline (internal use)	[564-25-0]
Cyanogen (oxalonitrile, oxalic acid dinitrile)	[460-19-5]	Doxycycline calcium (internal use)	[94088-85-4]
cyanogen chloride	[506-77-4]	Doxycycline hyclate (internal use)	[24390-14-5]
cyanuric fluoride	[675-14-9]	Doxycycline monohydrate (internal use)	[17086-28-1]
Cycasin	[14901-08-7]	Endrin	[72-20-8]
Cyclohexanol	[108-93-0]	Epichlorohydrin	[106-89-8]
Cycloheximide	[66-81-9]	Ergotamine tartrate	[379-79-3]
Cyclohexylamine [Cyclohexanamine]	[108-91-8]	Erionite	[12510-42-8]
Cyclophosphamide	[50-18-0]	Erionite	[66733-21-9]
cyclophosphamide hydrate	[6055-19-2]	Estradiol 17B	[50-28-2]
Cyclosporin A (Cyclosporine A; Ciclosporin)	[59865-13-3]	estrogens, conjugated	
Cyhexatin	[13121-70-5]	estrogens, nonsteroidal	
Cytarabine	[147-94-4]	estrogens, steroidal	
Cytembena	[21739-91-3]	Estrone (1,3,5(10)-estratrien-3-ol-17-one, beta-Estrone)	[53-16-7]
Dacarbazine	[4342-03-4]	Ethidium bromide	[1239-45-8]
Daminozide	[1596-84-5]	ethinyl estradiol	[57-63-6]
Danazol	[17230-88-5]	Ethionamide	[536-33-4]
Daunomycin	[20830-81-3]	Ethyl acrylate	[140-88-5]
Daunorubicin hydrochloride	[23541-50-6]	Ethyl methanesulfonate	[62-50-0]
DDD (Dichlorodiphenyldichloroethane)	[72-54-8]	Ethyl Nitrite	[109-95-5]
DDE (Dichlorodiphenyldichloroethylene)	[72-55-9]	Ethyl-4,4'-dichlorobenzilate	[510-15-6]
DDT (dichlorodiphenyltrichloroethane, 1,1,1-trichloro-2,2-bis( p-	[50-29-3]	Ethylamine	[75-04-7]
Decaborane	[17702-41-9]	Ethylene chlorohydrin	[107-07-3]
Decabromobiphenyl	[13654-09-6]	Ethylene Dibromide [1,2-Dibromoethane (EDB)]	[106-93-4]
Demeclocycline hydrochloride (internal use)	[64-73-3]	Ethylene Dichloride (1,2-Dichloroethane)	[107-06-2]
Diacetyl Peroxide	[110-22-5]	Ethylene fluorohydrin	[371-62-0]
Diaminotoluene (any isomer or mixed)		Ethylene glycol monoethyl ether	[110-80-5]
Diazepam	[439-14-5]	Ethylene glycol monoethyl ether acetate	[111-15-9]
Diazomethane	[334-88-3]	Ethylene glycol monomethyl ether	[109-86-4]
Dibenz[a,h]acridine	[226-36-8]	Ethylene glycol monomethyl ether acetate	[110-49-6]
Dibenz[a,h]anthracene	[53-70-3]	Ethylene oxide	[75-21-8]
Dibenz[a,j]acridine	[224-42-0]	Ethylene thiourea	[96-45-7]
Dibenzo[a,e]pyrene	[192-65-4]	Ethylenediamine [1,2-Ethanediamine]	[107-15-3]
Dibenzo[a,h]pyrene	[189-64-0]	Ethyleneimine (aziridine)	[151-56-4]
Dibenzo[a,i]pyrene	[189-55-9]	Etoposide	[33419-42-0]
Dibenzo[a,l]pyrene	[191-30-0]	Etretinate	[54350-48-0]
Dibenzoyl Peroxide	[94-36-0]	FireMaster BP-0	
Diborane	[19287-45-7]	Fluazifop butyl	[69806-50-4]
Dichloroacetic acid	[79-43-6]	Flunisolide	[3385-03-3]
Dichloroacetylene	[7572-29-4]	Fluorine	[7782-41-4]
Dichloromethane (Methylene Chloride)	[75-09-2]	Fluoxymesterone	[76-43-7]
Dichlorosilane	[4109-96-0]	Flurazepam hydrochloride	[1172-18-5]

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Flutamide	[13311-84-7]	Lead Phosphate	[7446-27-7]
Fluticasone propionate	[80474-14-2]	Lead subacetate	[1335-32-6]
Fluvalinate	[69409-94-5]	Leuprolide acetate	[74381-53-6]
Folpet	[133-07-3]	Levonorgestrel implants	[797-63-7]
Formaldehyde (gas or mixture of any concentration)	[50-00-0]	Lindane (gamma hexachlorocyclohexane, BHC gamma)	[58-89-9]
Furan	[110-00-9]	Lithium carbonate	[554-13-2]
Furazolidone	[67-45-8]	Lithium citrate	[919-16-4]
Furmecyclox	[60568-05-0]	Lorazepam	[846-49-1]
furylfuramide (2-(2-furyl)-3-(5-nitro-2-furyl)acrylamide, AF-2)	[3688-53-7]	Lovastatin	[75330-75-5]
Fusarin C	[79748-81-5]	Magenta	[632-99-5]
gamma-Butyrolactone	[96-48-0]	Mancozeb	[8018-01-7]
Ganciclovir sodium	[82410-32-0]	Maneb	[12427-38-2]
Gasoline engine exhaust (condensates/extracts)		m-Chlorophenol	[108-43-0]
Germane	[7782-65-2]	m-diaminoanisole sulfate (2,4-diaminoanisole sulfate)	[39156-41-7]
Glasswool fibers (airborne particles of respirable size)		m-Dinitrobenzene	[99-65-0]
Glu-P-1 (2-Amino-6-methyldiprido[1,2-a:3',2'-d]imidazole)	[67730-11-4]	Me-A-alpha-C (2-Amino-3-methyl-9H-pyrido[2,3-b]indole, MeA-	[68006-83-7]
Glu-P-2 (2-Aminodiprido[1,2-a:3',2'-d]imidazole)	[67730-10-3]	Medroxyprogesterone acetate	[71-58-9]
Glycaldaldehyde	[765-34-4]	Megestrol acetate	[595-33-5]
Glycidol	[556-52-5]	MelQx (2-Amino-3,8-dimethylimidazo[4,5-f]quinoxaline)	[77500-04-0]
Glycol ethers		MelQx(2-Amino-3,8-dimethylimidazo[4,5-f]quinoxaline)	[7500-04-1]
Goserelin acetate	[65807-02-5]	Melphalan	[148-82-3]
Griseofulvin	[126-07-8]	Menotropins	[9002-68-0]
Gyromitrin (Acetaldehyde methylformylhydrazone)	[16568-02-8]	Meprobamate	[57-53-4]
Halazepam	[23092-17-3]	Mercaptopurine	[6112-76-1]
Halothane	[151-67-7]	Mercury	[7439-97-6]
HC Blue No. 1	[2784-94-3]	mercury compounds	
Heptachlor	[76-44-8]	Mercury, organic cmpds	
Heptachlor epoxide	[1024-57-3]	Merphalan	[531-76-0]
Hexachlorobenzene (benzene hexachloride, C6Cl6)	[118-74-1]	Mestranol	[72-33-3]
Hexachlorobutadiene	[87-68-3]	Methacrylaldehyde	[78-85-3]
Hexachlorocyclohexanes	[608-73-1]	Methacryloyl chloride	[920-46-7]
Hexachlorodibenzodioxin	[34465-46-8]	Methacryloyloxyethyl isocyanate	[30674-80-7]
Hexachloroethane	[67-72-1]	Methacycline hydrochloride	[3963-95-9]
Hexafluoroacetone	[684-16-2]	Metham sodium	[137-42-8]
Hexamethyl phosphoramide (HMPA)	[680-31-9]	Methimazole	[60-56-0]
Hexamethylene diisocyanate	[822-06-0]	Methotrexate	[59-05-2]
Histrelin acetate		Methotrexate sodium	[15475-56-6]
Hydrazine Sulfate	[10034-93-2]	Methoxsalen (8-Methoxypsoralen)	[298-81-7]
Hydrazine, anhydrous	[302-01-2]	Methoxyflurane	[76-38-0]
hydrazobenzene (1,2-diphenylhydrazine)	[122-66-7]	Methyl acrylonitrile	[126-98-7]
Hydrogen	[1333-74-0]	methyl allyl chloride (3-chloro-2-methylpropene)	[563-47-3]
Hydrogen Bromide	[10035-10-6]	methyl bromide	[74-83-9]
hydrogen chloride (gas only)	[7647-01-0]	methyl carbamate	[598-55-0]
Hydrogen cyanide	[74-90-8]	methyl chloride	[74-87-3]
hydrogen fluoride (gas or any mixture)	[7664-39-3]	methyl chloroformate	[79-22-1]
Hydrogen Peroxide (52% by weight or greater)	[7722-84-1]	Methyl Ethyl Ketone Peroxide	[1338-23-4]
Hydrogen Selenide	[7783-07-5]	Methyl fluoroacetate	[453-18-9]
Hydrogen sulfide	[7783-06-4]	Methyl Fluorosulfate (Methyl fluorosulfonate)	[421-20-5]
Hydroxylamine	[7803-49-8]	methyl hydrazine (monomethylhydrazine)	[60-34-4]
Hydroxyurea	[127-07-1]	methyl iodide	[74-88-4]
Ifofamide	[3778-73-2]	Methyl isocyanate	[624-83-9]
Indeno[1,2,3-cd]pyrene	[193-39-5]	methyl mercaptan	[74-93-1]
Iodine	[7553-56-2]	methyl mercury compounds	
Iodine-131	[10043-66-0]	methyl methanesulfonate (methyl mesylate)	[66-27-3]
Iprodione	[36734-19-7]	Methyl thiocyanate [Thiocyanic acid, methylester]	[555-64-9]
IQ (2-Amino-3-methylimidazo[4,5-f]quinoline)	[76180-96-6]	methyl vinyl ketone	[78-94-4]
Iron dextran complex	[9004-66-4]	methylamine, anhydrous	[74-89-5]
Iron pentacarbonyl	[13463-40-6]	methylazoxymethanol	[590-96-5]
Isobutyl nitrite	[542-56-3]	Methylazoxymethanol acetate	[592-62-1]
Isobutyronitrile [Propanenitrile,2-methyl-]	[78-82-0]	Methylene biphenyl isocyanate	[101-68-8]
Isoprene	[78-79-5]	Methylhydrazine salts	
Isopropyl chloroformate [Carbonochloridic acid, 1-	[108-23-6]	Methylmercury compounds	
Isopropyl formate	[625-55-8]	Methyltestosterone	[58-18-4]
Isopropylamine	[75-31-0]	Methyltrichlorosilane	[75-79-6]
Isosafrole	[120-58-1]	Metiram	[9006-42-2]
Isotretinoin	[4759-48-2]	Metronidazole	[443-48-1]
Kanechlor 500 (under Polychlorinated Biphenyls)	[37317-41-2]	Michler's Ketone [4,4'-(Dimethylamino)benzophenone]	[90-94-8]
Ketene	[463-51-4]	Midazolam hydrochloride	[59467-96-8]
L-5-Morpholinomethyl)-3-[(5-nitro-furfurylidene)amino]-2-	[3031-51-4]	Mineral Oils	
Lactofen	[77501-63-4]	Minocycline hydrochloride (internal use)	[13614-98-7]
Lasiocarpine	[303-34-4]	Mirex (Dechlorane)	[2385-85-5]
Lead	[7439-92-1]	Misoprostol	[59122-46-2]
Lead acetate	[301-04-2]	Mitomycin C	[50-07-7]
Lead arsenate	[7784-40-9]	Mitoxantrone hydrochloride	[70476-82-3]
Lead Chromate (under Chromium and Certain Chromium	[7758-97-6]	Monocrotaline	[315-22-0]
lead compounds		MOPP and other combined chemotherapy including alkylating	
lead compounds, inorganic		Mustard gas (2,2'-dichlorodiethyl sulfide, Sulfur mustard)	[505-60-2]

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N,N'-Diacetylbenzidine	[613-35-4]	Oleum (65% to 80% by weight; also called Fuming Sulfuric	[8014-94-6]
N,N-dimethylcarbamoyl chloride (dimethylcarbamoyl chloride)	[79-44-7]	Oleum (Fuming Sulfuric acid) [Sulfuric acid, mixture with sulfur	[8014-95-7]
N-[4-(5-Nitro-2-furyl)-2-thiazolyl] acetamide	[531-82-8]	o-Nitroanisole (2-Nitroanisole)	[91-23-6]
Nafarelin acetate	[86220-42-0]	o-Nitrotoluene	[88-72-2]
Nafepopin	[3771-19-5]	o-Phenylenediamine and its salts	[95-54-5]
Nalidixic acid	[389-08-2]	Oral contraceptives, combined	
Naphtha (coal tar naphtha, coal tar, petroleum benzine)	[8030-30-6]	Oral contraceptives, sequential	
Neomycin sulfate (internal use)	[1405-10-3]	Organo tin compounds	
N-ethyl-N-nitrosourea	[759-73-9]	Osmium tetroxide	[20816-12-0]
N-Ethyl-N-nitrosovinylamine	[13256-13-8]	o-Toluidine	[95-53-4]
Netilmicin sulfate	[56391-57-2]	o-Toluidine Hydrochloride	[636-21-5]
Nickel	[7440-02-0]	Oxadiazon	[19666-30-9]
Nickel [II] Hydroxide	[12054-48-7]	Oxazepam	[604-75-1]
Nickel Acetate	[373-02-4]	Oxydemeton methyl	[301-12-2]
Nickel alloys		Oxygen Difluoride (Fluorine Monoxide)	[7783-41-7]
Nickel Carbonate	[3333-67-3]	Oxymetholone	[434-07-1]
Nickel Carbonyl (Nickel Tetracarbonyl)	[13463-39-3]	Oxytetracycline (internal use)	[79-57-2]
Nickel compounds		Oxytetracycline hydrochloride (internal use)	[2058-46-0]
Nickel Hydroxide	[11113-74-9]	Ozone	[10028-15-6]
Nickel II Oxide	[1313-99-1]	p-a,a,a-Tetrachlorotoluene	[5216-25-1]
Nickel refinery dust from the pyrometallurgical process		Paclitaxel	[33069-62-4]
Nickel subsulfide	[12035-72-2]	Palygorskite (attapulgite) (long fibres, > 5 micrometers)	[12174-11-7]
Nickelocene	[1271-28-9]	p-Aminoazobenzene	[60-09-3]
Nicotine	[54-11-5]	Panfuran S	[794-93-4]
Niridazole	[61-57-4]	p-Anisidine	[104-94-9]
Nitric Acid (94.5% by weight or greater)	[7697-37-2]	Paramethadione	[115-67-3]
nitric oxide (nitrogen monoxide)	[10102-43-9]	p-Chloro -o-toluidine Hydrochloride	[3165-93-3]
nitroacetic acid	[139-13-9]	p-Chloroaniline	[106-47-8]
Nitrioltriacetic acid salts		p-Chloroaniline hydrochloride	[20265-96-7]
Nitrioltriacetic acid, trisodium salt monohydrate	[18662-53-8]	p-Chloro-o-toluidine	[95-69-2]
Nitrobenzene	[98-95-3]	p-Chloro-o-toluidine strong acid salts	
Nitrofurantoin	[67-20-9]	p-Chlorophenol	[106-48-9]
Nitrofurazone	[59-87-0]	p-cresidine (5-methyl-o-anisidine)	[120-71-8]
Nitrogen Dioxide	[10102-44-0]	p-dichlorobenzene (1,4-dichlorobenzene)	[106-46-7]
Nitrogen mustard (N,N-bis(2-chloroethyl)methylamine,	[51-75-2]	p-Dinitrobenzene	[100-25-4]
nitrogen mustard hydrochloride (Mechloroethamine	[55-86-7]	Penicillamine	[52-67-5]
Nitrogen mustard N-oxide	[126-85-2]	Pentaborane	[19624-22-7]
Nitrogen mustard N-oxide hydrochloride (2-chloro-N-(2-	[302-70-5]	Pentachlorophenol	[87-86-5]
Nitrogen Oxides (NO; NO(2); N2O4; N2O3)		Pentobarbital sodium	[57-33-0]
Nitrogen tetroxide	[101022-44-0]	Pentostatin	[53910-25-1]
Nitrogen Tetroxide (Nitrogen Peroxide)	[10544-72-6]	peracetic acid (peroxyacetic acid)	[79-21-0]
Nitrogen Trifluoride	[7783-54-2]	Perchloric Acid (concentration greater than 60% by weight)	[7601-90-3]
nitrogen trioxide (dinitrogen trioxide)	[10544-73-7]	Perchloroethylene (tetrachloroethylene)	[127-18-4]
Nitromethane	[75-52-5]	Perchloromethyl Mercaptan	[594-42-3]
Nitrous oxide	[10024-97-2]	Perchloryl Fluoride	[7616-94-6]
N-methyl-N'-nitro-N-nitrosoguanidine	[70-25-7]	Phenacemide	[63-98-9]
N-methyl-N-nitrosourea ( N-nitroso-N-methylurea)	[684-93-5]	Phenacetin (p-acetophenetidine, p-ethoxyacetanilide)	[62-44-2]
N-Methyl-N-nitrosourethane (N-Nitroso-N-methylurethane)	[615-53-2]	Phenazopyridine	[94-78-0]
N-Methylolacrylamide	[924-42-5]	Phenazopyridine hydrochloride	[136-40-3]
N-Nitroso- n-butyl- N-(3-carboxypropyl)amine	[38252-74-3]	Phenesterin	[3546-10-9]
N-Nitroso- n-butyl- N-(4-hydroxybutyl)amine	[3817-11-6]	Phenobarbital	[50-06-6]
N-Nitrosodiethanolamine	[1116-54-7]	Phenolphthalein	[77-09-8]
N-nitrosodiethylamine (diethylnitrosamine; DEN)	[55-18-5]	Phenoxybenzamine	[59-96-1]
N-Nitrosodimethylamine (Dimethylnitrosamine)	[62-75-9]	Phenoxybenzamine hydrochloride	[63-92-3]
N-nitrosodi-n-butylamine (N-butyl-N-nitroso-1-butylamine)	[924-16-3]	Phenprocoumon	[435-97-2]
N-Nitrosodiphenylamine	[86-30-6]	Phenyl glycidyl ether	[122-60-1]
N-Nitrosomethylethylamine	[10595-95-6]	Phenylhydrazine	[100-63-0]
N-Nitrosomethylvinylamine	[4549-40-0]	Phenylhydrazine salts	
N-Nitrosomorpholine	[59-89-2]	phosgene (carbonyl chloride)	[75-44-5]
N-nitroso-N-dipropylamine (N-nitroso-N-di-n-propylamine, N-	[621-64-7]	Phosphine (Hydrogen Phosphide)	[7803-51-2]
N-Nitrosornicotine	[16543-55-8]	phosphorus oxychloride (phosphoryl chloride)	[10025-87-3]
N-Nitrosopiperidine	[100-75-4]	Phosphorus pentafluoride	[7647-19-0]
n-nitrosopyrrolidine	[930-55-2]	Phosphorus trichloride	[7719-12-2]
N-Nitrososarcosine	[13256-22-9]	piperazine estrone sulfate (Estropipate)	[7280-37-7]
Norethisterone (Norethindrone)	[68-22-4]	Piperidine	[110-89-4]
Norethisterone acetate (Norethindrone acetate)	[51-98-9]	Pipobroman	[54-91-1]
Norgestrel	[6533-00-2]	Plicamycin	[18378-89-7]
N-Phenyl beta-naphthylamine	[135-88-6]	p-Nitroaniline	[100-01-6]
o,p'-DDT	[789-02-6]	p-nitrosodiphenylamine (4-nitrosodiphenylamine)	[156-10-5]
o-Aminoazotoluene	[97-56-3]	Polybrominated biphenyls (PBBs)	
o-Anisidine	[90-04-0]	Polybrominated biphenyls (PBBs)	[59536-65-1]
o-Anisidine hydrochloride	[134-29-2]	Polybrominated Biphenyls (PBBs)	[67774-32-7]
o-Chlorophenol	[95-57-8]	Polychlorinated biphenyls (PCBs)	
Ochratoxin A	[303-47-9]	Polychlorinated Biphenyls (PCBs)	[1336-36-3]
Octabromobiphenyl	[61288-13-9]	Polychlorinated dibenzofurans	
o-Dichlorobenzene	[95-50-1]	Polychlorinated dibenzo-p-dioxins	
o-Dinitrobenzene	[528-29-0]	Polycyclic Aromatic Hydrocarbons (PAHs)	

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Polygeenan	[53973-98-1]	Temazepam	[846-50-4]
Potassium bromate	[7758-01-2]	Teniposide	[29767-20-2]
Procarbazine	[671-16-9]	Terrazole	[2593-15-9]
Procarbazine Hydrochloride	[366-70-1]	Testosterone and its esters	[58-22-0]
Procymidone	[32809-16-8]	Testosterone cypionate	[58-20-8]
Progesterone	[57-83-0]	Testosterone enanthate	[315-37-7]
Progestins		Tetracycline (internal use)	[60-54-8]
Pronamide	[23950-58-5]	Tetracycline hydrochloride (internal use)	[64-75-5]
Propargite	[2312-35-8]	Tetrafluoroethylene	[116-14-3]
Propionitrile [Propanenitrile]	[107-12-0]	Tetrafluorohydrazine	[10036-47-2]
Propyl chloroformate [Carbochloridic acid, propylester]	[109-61-5]	Tetramethyl Lead	[75-74-1]
Propyl Nitrate	[627-3-5]	Tetramethyl succinonitrile	[3333-52-6]
Propylene oxide	[75-56-9]	Tetranitromethane	[509-14-8]
Propylenimine (2-Methylaziridine)	[75-55-8]	Thalidomide	[50-35-1]
Propylthiouracil	[51-52-5]	Thioacetamide	[62-55-5]
p-Toluidine	[106-49-0]	Thioguanine	[154-42-7]
Quazepam	[36735-22-5]	Thionyl chloride	[7719-09-7]
Quinoline	[91-22-5]	Thiotepa (tris(1-aziridinyl)phosphine sulfide)	[52-24-4]
Quinoline strong acid salts		Thiourea	[62-56-6]
Radionuclides		Thorium Dioxide	[1314-20-1]
Radon	[10043-92-2]	Titanium tetrachloride [Titanium chloride (TiCl <sub>4</sub> ) (T-4)-]	[7550-45-0]
Radon decay products		Tobramycin sulfate	[49842-07-1]
Reserpine (Regroton)	[50-55-5]	Toluene	[108-88-3]
Residual (heavy) fuel oils		Toluene 2, 6- diisocyanate [Benzene, 1,3- diisocyanato-2-	[91-08-7]
Resmethrin	[10453-86-8]	Toluene diisocyanates (any isomer or mixed)	[26471-62-5]
Resorcinol	[108-46-3]	Toluene-2,4-diisocyanate	[584-84-9]
Retinol/retinyl esters		Toxaphene (chlorinated camphene)	[8001-35-2]
Ribavirin	[36791-04-5]	trans-2-[(Dimethylamino)methylimino]-5-[2-(5-nitro-2-furyl)-	[25962-77-0]
Rockwool		trans-2-[(Dimethylamino)methylimino]-5-[2-(5-nitro-2-	[55738-54-0]
saccharin (benzisothiazol-3(2H)-one-1,1-dioxide)	[81-07-2]	Treosulfan (Treosulphan)	[299-75-2]
Saccharin, sodium	[128-44-9]	Triazolam	[28911-01-5]
Safrole	[94-59-7]	Trichlormethine (trimustine hydrochloride, 2,2',2''-	[817-09-4]
Salicylazosulfapyridine	[599-79-1]	trichloro (chloromethyl) silane	[1558-25-4]
Sarin (isopropyl methanefluorophosphonate)	[107-44-8]	Trichloro (dichlorophenyl) Silane	[27137-85-5]
Secobarbital sodium	[309-43-3]	Trichloroethylene	[79-01-6]
Selenium	[7782-49-2]	Trichlorosilane	[10025-78-2]
Selenium hexafluoride	[7783-79-1]	Triethylamine (TEA)	[121-44-8]
Selenium sulfide	[7446-34-6]	Trifluorochloroethylene	[79-38-9]
Selenium, and all cmpds		Trilostane	[13647-35-3]
Shale-oils	[68308-34-9]	Trimethadione	[127-48-0]
Silica - amorphous	[7699-41-4]	Trimethylchlorosilane [Silane, chlorotrimethyl-]	[75-77-4]
Silica - amorphous, fused	[60676-86-0]	Trimethyl phosphate	[512-56-1]
Silica - crystalline, tripoli	[1317-95-9]	Trimethylamine	[75-50-3]
Silica - Tridymite (respirable)	[15468-32-3]	Trimethoxysilane	[2487-90-3]
silica (quartz, respirable)	[14808-60-7]	Trimetrexate glucuronate	[82952-64-5]
Silica, crystalline (airborne particles of respirable size)		Triphenyltin hydroxide	[76-87-9]
Silica, crystalline, cristobalite	[14464-46-1]	Tris(2,3-dibromopropyl) phosphate	[126-72-7]
Silicon tetrafluoride	[7783-61-1]	Tris(2-chloroethyl) phosphate	[115-96-8]
Slagwool		Tris(aziridinyl)-p-benzoquinone (Triaziquone)	[68-76-8]
Sodium Equilin Sulfate (under Conjugated Estrogens)	[16680-47-0]	Tryptophan-P-1 (3-Amino-1,4-dimethyl-5H-pyrido[4,3-b]indole,	[62450-06-0]
Sodium Estrone Sulfate (under Conjugated Estrogens)	[438-67-5]	Tryptophan-P-2 (3-Amino-1-methyl-5H-pyrido[4,3-b]indole, Trp-	[62450-07-1]
Sodium fluoroacetate	[62-74-8]	Uracil mustard	[66-75-1]
Sodium o-phenylphenate	[132-27-4]	Uranium, all cmpds	
Soots, tars, and mineral oils (untreated and mildly treated oils)		Uranium, natural	[7440-61-1]
Spirolactone	[52-01-7]	Urethane (Urethan; Ethyl carbamate)	[51-79-6]
Stanozolol	[10418-03-8]	Urofollitropin	[26995-91-5]
Sterigmatocystin	[10048-13-2]	Valproate (Valproic acid)	[99-66-1]
Stibine (antimony trihydride)	[7803-52-3]	Vinblastine sulfate	[143-67-9]
Streptomycin sulfate	[3810-74-0]	Vinclozolin	[50471-44-8]
Streptozotocin	[18883-66-4]	Vincristine	[57-22-7]
Strontium Chromate (under Chromium and Certain Chromium	[7789-06-2]	Vincristine sulfate	[2068-78-2]
Styrene (phenylethylene, vinyl benzene)	[100-42-5]	Vinyl acetate	[108-05-4]
styrene oxide (styrene-7,8-oxide )	[96-09-3]	Vinyl bromide	[593-60-2]
Sulfallate (diethyldithiocarbamic acid 2-chlorallyl ester)	[95-06-7]	Vinyl chloride	[75-01-4]
sulfur dioxide	[7446-09-5]	Vinyl fluoride	[75-02-5]
sulfur monochloride (sulfur chloride, disulfur dichloride)	[10025-67-9]	Vinylidene fluoride (1,1-difluoroethylene)	[75-38-7]
sulfur pentafluoride (disulfur decafluoride)	[5714-22-7]	Warfarin (in any quantity or concentration)	[81-81-2]
sulfur pentafluoride (radical)	[10546-01-7]	Wood dusts (hardwoods)	
sulfur tetrafluoride	[7783-60-0]	Zinc Chromate	[13530-65-9]
sulfur trioxide (sulfuric anhydride)	[7446-11-9]	Zineb	[12122-67-7]
sulfuryl chloride	[7791-25-5]		
Talc (fibrous)	[14807-96-6]		
Talc containing asbestiform fibers			
Tamoxifen	[10540-29-1]		
Tamoxifen citrate	[54965-24-1]		
Tamoxifen salts			
Tellurium hexafluoride	[7783-80-4]		

The official versions of all REM forms and documents are the versions at the REM website. Always check there -- being at [www.purdue.edu/REM](http://www.purdue.edu/REM) -- to make sure that you have the official version of any form or other document.