

**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]	3,7-Dinitrofluoranthene	[105735-71-5]
1-(2-Chloroethyl)-3-cyclohexyl-1-nitrosourea (CCNU,	[13010-47-4]	3,9-Dinitrofluoranthene	[22506-53-2]
1,1,2,2-Tetrachloroethane	[79-34-5]	3-Amino-9-ethylcarbazole hydrochloride	[6109-97-3]
1,1,2-trichloroethane (vinyl trichloride)	[79-00-5]	3-Bromopropene (Propargyl Bromide)	[106-96-7]
1,1-Dichloroethane	[75-34-3]	3-Methylcholanthrene	[56-49-5]
1,1-Dichloroethylene (vinylidene chloride)	[75-35-4]	4-(N-Nitrosomethylamino)-1-(3-pyridyl)-1-butanone (NNK)	[64091-91-4]
1,1-dimethylhydrazine (UDMH)	[57-14-7]	4,4'-diaminodiphenyl ether (4,4'-oxydianiline)	[101-80-4]
1,2,3-Trichloropropane	[96-18-4]	4,4'-Methylene bis(2-methylaniline)	[838-88-0]
1,2-dibromo-3-chloropropane (DBCP, Fumazone)	[96-12-8]	4,4'-Methylenebis(2-chloraniline) (MBOCA)	[101-14-4]
1,2-Dichloropropane	[78-87-5]	4,4'-methylenebis(N,N-dimethylaniline)	[101-61-1]
1,2-Diethylhydrazine	[1615-80-1]	4,4'-Methylenedianiline (4,4'-diaminodiphenylmethane)	[101-77-9]
1,2-Dimethylhydrazine	[540-73-8]	4,4'-Methylenedianiline Dihydrochloride	[13552-44-8]
1,3-Butadiene	[106-99-0]	4,4'-Thiodianiline	[139-65-1]
1,3-Dichloropropene	[542-75-6]	4-Amino-2-nitrophenol	[119-34-6]
1,3-Propane sultone	[1120-71-4]	4-aminodiphenyl (4-aminobiphenyl)	[92-67-1]
1,4-butanediol dimethanesulfonate (Busulphan, Myleran)	[55-98-1]	4-Chloro-o-phenylenediamine	[95-83-0]
1,4-Dichloro-2-butene	[764-41-0]	4-dimethylaminoazobenzene (p-dimethylaminoazobenzene )	[60-11-7]
1,4-Dioxane	[123-91-1]	4-Nitrobiphenyl (4-Nitrodiphenyl)	[92-93-3]
1,6-Dinitropyrene	[42397-64-8]	4-Nitropyrene	[57835-92-4]
1,8-Dihydroxyanthraquinone (Danthron, Chrysazin)	[117-10-2]	4-vinyl-1-cyclohexene diepoxide (vinyl cyclohexenedioxide)	[106-87-6]
1,8-Dinitropyrene	[42397-65-9]	4-Vinylcyclohexene	[100-40-3]
1-[[5-nitrofurfurylidene)-amino]-2-imidazolidinone (Nifuradene)	[555-84-0]	5-(Morpholinomethyl)-3-[[5-nitro-furfurylidene)-amino]-2-	[139-91-3]
1-Amino-2,4-dibromoanthraquinone	[81-49-2]	5-(Morpholinomethyl)-3-[[5-nitrofurfurylidene)amino]-2-	[3795-88-8]
1-Amino-2-methylanthraquinone	[82-28-0]	5-Chloro-o-toluidine	[94-79-4]
1-Chloro-1-nitroethane	[598-92-5]	5-chloro-o-toluidine, strong acid salts	
1-Chloro-2,4-Dinitrobenzene	[97-00-7]	5-Fluorouracil	[51-21-8]
1-Nitropyrene	[5522-43-0]	5-Methoxypsoralen (bergapten, heraclin, majudin)	[484-20-8]
2-(2-Formylhydrazino)-4-(5-nitro-2-furyl)thiazole	[3570-75-0]	5-Methylchrysene	[3697-24-3]
2, 4, 5-Trichlorophenol	[95-95-4]	5-Nitroacenaphthene	[602-87-9]
2,2-Bis(bromomethyl)-1,3-propanediol	[3296-90-0]	5-Nitro-o-anisidine	[99-59-2]
2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD)	[1746-01-6]	6-methyl-2-thiouracil (methylthiouracil)	[56-04-2]
2,3-Dibromo-1-propanol	[96-13-9]	6-Nitrochrysene	[7496-02-8]
2,4,5-Trimethylaniline	[137-17-7]	7,12-Dimethylbenz(a)anthracene	[57-97-6]
2,4,5-Trimethylaniline and its strong acid salts		7H-Dibenzo[c,g]carbazole	[194-59-2]
2,4,6-Trichlorophenol	[88-06-2]	A-alpha-C (2-Amino-9H-pyrido[2,3-b]indole)	[26148-68-5]
2,4-Diaminoanisole	[615-05-4]	Acetaldehyde	[75-07-0]
2,4-Diaminotoluene	[95-80-7]	Acetamide	[60-35-5]
2,4-Dichlorophenoxyacetic acid (2,4-D)	[94-75-7]	Acetochlor	[34256-82-1]
2,4-Dichlorophenyl-p-nitrophenyl ether (nitrofen)	[1836-75-5]	Acetohydroxamic acid	[546-88-3]
2,4-Dinitroaniline	[97-02-9]	Acetylene tetrabromide	[79-27-6]
2,4-Dinitrotoluene	[121-14-2]	Acifluorfen	[62476-59-9]
2,6-Dimethylaniline (2,6-Xylidine)	[87-62-7]	Acrolein (2-Propenal)	[107-02-8]
2,6-Dinitrotoluene	[606-20-2]	Acrylamide	[79-06-1]
2-Acetylaminofluorene	[53-96-3]	Acrylonitrile	[107-13-1]
2-Amino-1-methyl-6-phenylimidazo[4,5-b]pyridine (PhIP)	[105650-23-5]	Acrylyl Chloride	[814-68-6]
2-Amino-3,4-dimethylimidazo[4,5-f]quinoline (MeIQ)	[77094-11-2]	Actinomycin D	[50-76-0]
2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole	[59716-87-9]	Adriamycin (Doxorubicin hydrochloride)	[23214-92-8]
2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole	[712-68-5]	Aflatoxin	[7220-81-7]
2-Aminoanthraquinone	[117-79-3]	Aflatoxin M1	[6795-23-9]
2-Aminofluorene	[153-78-6]	Aflatoxins	[1402-68-2]
2-Aminopyridine	[504-29-0]	Alachlor	[15972-60-8]
2-Methyl-1-nitroanthraquinone	[129-15-7]	Aldrin	[309-00-2]
2-Nitrofluorene	[607-57-8]	Alkylaluminums	
2-Nitropropane	[79-46-9]	all-trans retinoic acid	[302-79-4]
3-(N-Nitrosomethylamino)propionitrile	[60153-49-3]	Allyl alcohol [2-Propen-1-ol]	[107-18-61]
3,3'-Dichloro-4,4'-diaminodiphenyl ether	[28434-86-8]	Allyl chloride	[107-05-1]
3,3'-Dichlorobenzidine	[91-94-1]	Allylamine	[107-11-9]
3,3'-Dichlorobenzidine dihydrochloride	[612-83-9]	alpha-Hexachlorocyclohexane	[319-84-6]
3,3'-Dimethoxybenzidine (o-dianisidine)	[119-90-4]	alpha-Naphthylamine (1-naphthylamine)	[134-32-7]
3,3'-dimethoxybenzidine dihydrochloride (o-dianisidine)	[20325-40-0]	Alprazolam	[28981-97-7]
3,3'-dimethylbenzidine (o-tolidine)	[119-93-7]	Amikacin sulfate	[39831-55-5]
3,3'-Dimethylbenzidine dihydrochloride	[612-82-8]	Aminoglutethimide	[125-84-8]

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APPENDIX H - Chemical Resistance Examples

Aminoglycosides	
Aminopterin	[54-62-6]
Amiodarone hydrochloride	[19774-82-4]
Amitrole (3-amino-1,2,4-triazole)	[61-82-5]
ammonia (gas, liquified)	[7664-41-7]
Ammonium Perchlorate	[7790-98-9]
Ammonium Permanganate	[7787-36-2]
Amoxapine	[14028-44-5]
Anabolic steroids (androgenic steroids)	
Analgesic mixtures containing phenacetin	
Angiotensin converting enzyme (ACE) inhibitors	
Aniline	[62-53-3]
Aniline hydrochloride	[142-04-1]
Anisindione	[117-37-3]
Antimony oxide (Antimony trioxide)	[1309-64-4]
Aramite (butylphenoxyisopropyl chloroethyl sulfite)	[140-57-8]
Aroclor	[12767-79-2]
Aroclor 1254	[11097-69-1]
Aroclor 1260	[11096-82-5]
arsenic and all its compounds	
Asbestos (amosite)	[12172-73-5]
Asbestos (ascarite, tremolite)	[1332-21-4]
Asbestos (crocidolite)	[12001-28-4]
Asbestos (serpentine chrysotile)	[12001-29-5]
Aspirin	[50-78-2]
Atenolol	[29122-68-7]
Atrazine	[1912-24-9]
Auramine O	[2465-27-2]
Azacytidine (Azacitidine, Mylosar, 5-azacytidine)	[320-67-2]
Azaserine	[115-02-6]
Azathioprine	[446-86-6]
Azobenzene	[103-33-3]
Barbiturates	
Beclomethasone dipropionate	[5534-09-8]
Benomyl	[17804-35-2]
benz[a]anthracene (benzo[a]anthracene)	[56-55-3]
benzal chloride (benzylidene chloride, alpha, alpha-	[98-87-3]
Benzene	[71-43-2]
Benzidine	[92-87-5]
benzidine salts	
Benzidine-based dyes	
Benzo[a]pyrene	[50-32-8]
Benzo[b]fluoranthene	[205-99-2]
Benzo[j]fluoranthene	[205-82-3]
Benzo[k]fluoranthene	[207-08-9]
Benzodiazepines	
Benzofuran	[271-89-6]
Benzotrichloride (alpha, alpha, alpha-trichlorotoluene)	[98-07-7]
Benzphetamine hydrochloride	[5411-22-3]
benzyl chloride (alpha-chlorotoluene)	[100-44-7]
Beryl Ore	[1302-52-9]
beryllium	[7440-41-7]
Beryllium Aluminum Alloy	[12770-50-2]
beryllium chloride	[7787-47-5]
beryllium and all of its compounds	
Beryllium Phosphate	[13598-15-7]
Beryllium sulfate tetrahydrate	[7787-56-6]
beryllium zinc silicate (zinc beryllium silicate )	[39413-47-3]
beta-Butyrolactone	[3068-88-0]
beta-Hexachlorocyclohexane	[319-85-7]
beta-naphthylamine (C.I. 37270, 2-aminonaphthalene)	[91-59-8]
beta-Propiolactone	[57-57-8]
Betel quid with tobacco	
Bis(2-chloroethyl)ether	[111-44-4]
Bis(2-ethylhexyl) Phthalate (Dioctyl phthalate , Di-sec-octyl	[117-81-7]
bis(chloromethyl) ether	[542-88-1]
bischloroethyl nitrosourea (BCNU, Carmustine)	[154-93-8]
Bitumens , extracts of steam-refined and air-refined	[8052-42-4]
Bitumens, extracts of steam-refined and air refined	
Bleomycins	[11056-06-7]
Boron Trichloride	[10294-34-5]
Boron trifluoride	[7637-07-2]
Boron trifluoride compound with methyl ether	[353-42-4]
Bracken fern	
Bromine	[7726-95-6]
Bromine Chloride	[13863-41-7]
Bromine Pentafluoride	[7789-30-2]
Bromine Trifluoride	[7787-71-5]

Bromodichloromethane	[75-27-4]
Bromoform	[75-25-2]
Bromoxynil	[1689-84-5]
Butabarbital sodium	[143-81-7]
Butyl Hydroperoxide (Tertiary)	[75-91-2]
Butyl Perbenzoate (Tertiary)	[614-45-9]
Butylated Hydroxyanisole (BHA)	[25013-16-5]
C.I. 12055 (C.I. Solvent Yellow 14, Sudan I)	[842-07-9]
C.I. 12075 (D&C Orange No. 17, Permanent Orange)	[3468-63-1]
C.I. 12100 (Oil Orange SS)	[2646-17-5]
C.I. 12156 (C.I. solvent red 80, Citrus Red No. 2)	[6358-53-8]
C.I. 15585 (D&C Red No. 8)	[2092-56-0]
C.I. 15585:1 (D&C Red No. 9)	[5160-02-1]
C.I. 16150 (Xylidine Ponceau 2R, Ponceau MX, D&C Red No.	[3761-53-3]
C.I. 16155 (Ponceau 3R, D&C Red No. 15)	[3564-09-8]
C.I. 22610 (Direct Blue 6)	[2602-46-2]
C.I. 23635 (C. I. Acid Red 114)	[6459-94-5]
C.I. 23850 (C.I. Direct blue 14, Trypan blue)	[72-57-1]
C.I. 24400 (C.I. Direct Blue 15)	[2429-74-5]
C.I. 24401 (C.I. Direct Blue 218)	[28407-37-6]
C.I. 41000B (C.I. Basic Yellow 2, Auramine, (Brilliant Oil	[492-80-8]
C.I. 42500 (Basic Red 9 monohydrochloride, pararosanilin)	[569-61-9]
C.I. 42640 (Benzyl violet 4B )	[1694-09-3]
C.I. 45170 (D&C Red No. 19, Rhodamine B, Basic Violet 10)	[81-88-9]
C.I. 64500 (Disperse Blue 1)	[2475-45-8]
Cacodylic acid	[75-60-5]
Cadmium	[7440-43-9]
Cadmium Chloride	[10108-64-2]
cadmium compounds	
Cadmium Oxide	[1306-19-0]
Cadmium Sulfate	[10124-36-4]
Cadmium Sulfide	[1306-23-6]
Caffeic acid	[331-39-5]
Calcium arsenate	[7778-44-1]
Captafol	[2425-06-1]
Captafol (Crisfolatan, Difolatan, Folcid)	[2939-80-2]
Captan	[133-06-2]
Carbaryl (Sevin)	[63-25-2]
Carbazole	[86-74-8]
Carbon black	[1333-86-4]
Carbon disulfide	[75-15-0]
Carbon monoxide	[630-08-0]
Carbon tetrachloride	[56-23-5]
Carbon-black extracts	
Carbonyl Fluoride	[353-50-4]
Carboplatin	[41575-94-4]
Carrageenan, degraded	[9000-07-1]
Cellulose Nitrate (concentration greater than 12.6% nitrogen	[9004-70-0]
Ceramic fibers (airborne particles of respirable size)	
Chenodiol	[474-25-9]
Chinomethionat (Oxythioquinox)	[2439-01-2]
Chlorambucil	[305-03-3]
Chloramphenicol (chloromycetin)	[56-75-7]
Chlorcyclizine hydrochloride	[1620-21-9]
Chlordane	[57-74-9]
Chlordecone (Kepone)	[143-50-0]
Chlordiazepoxide	[58-25-3]
Chlordiazepoxide hydrochloride	[438-41-5]
Chlordimeform	[6164-98-3]
Chlorendic acid	[115-28-6]
Chlorinated Paraffins (avg C12 , 60% Chlorine)	[108171-26-2]
Chlorine	[7782-50-5]
Chlorine dioxide	[10049-04-4]
Chlorine Pentafluoride	[13637-63-3]
Chlorine Trifluoride	[7790-91-2]
Chloromaphazine (N,N-bis(2-chloroethyl)-2-naphthylamine)	[494-03-1]
Chlorodibromomethane	[124-48-1]
Chlorodiethylaluminum (also called Diethylaluminum Chloride)	[96-10-6]
Chloroethane (Ethyl chloride)	[75-00-3]
Chlorofluoromethane (fluorocarbon 31)	[593-70-4]
Chloroform	[67-66-3]
chloromethyl methyl ether (methyl chloromethyl ether)	[107-30-2]
Chlorophenols	
Chlorophenoxy herbicides	
Chloropicrin	[76-06-2]
Chloropicrin and Methyl Bromide mixture	
Chloropicrin and Methyl Chloride mixture	
Chloroprene (2-chloro-1,3-butadiene)	[126-99-8]

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Chlorothalonil	[1897-45-6]
Chlorotrianisene	[569-57-3]
Chlorozotocin	[54749-90-5]
Chromium Hexavalent Compounds	
Chrysene	[218-01-9]
Ciclosporin (Cyclosporine, Sandimmune, Neoral)	[79217-60-0]
Cinnamyl anthranilate	[87-29-6]
Cisplatin	[15663-27-1]
Cladribine	[4291-63-8]
Clarithromycin	[81103-11-9]
Clobetasol propionate	[25122-46-7]
Clofibrate	[637-07-0]
Clomiphene citrate	[50-41-9]
Clorazepate dipotassium	[57109-90-7]
Coal tars (coke oven emissions)	[8007-45-2]
Coal-tar pitches	[65996-93-2]
Cobalt (powder)	[7440-48-4]
Cobalt [II] oxide	[1307-96-6]
cobalt compounds	
Cocaine	[50-36-2]
Codeine phosphate	[52-28-8]
Coke Oven Emissions	
Coke oven emissions	
Colchicine	[64-86-8]
Commune Hydroperoxide	[80-15-9]
creosote (coal tar creosote, creosote oil, liquid pitch oil)	[8001-58-9]
creosote (wood creosote)	[8021-39-4]
creosols	
Crotonaldehyde (E)- [2-Butenal, (E)-]	[123-73-9]
Crotonaldehyde [2-Butenal]	[4170-30-3]
Cupferron (ammonium N-nitrosophenylhydroxylamine)	[135-20-6]
Cyanazine	[21725-46-2]
Cyanogen (oxalonitrile, oxalic acid dinitrile)	[460-19-5]
cyanogen chloride	[506-77-4]
cyanuric fluoride	[675-14-9]
Cycasin	[14901-08-7]
Cyclohexanol	[108-93-0]
Cycloheximide	[66-81-9]
Cyclohexylamine [Cyclohexanamine]	[108-91-8]
Cyclophosphamide	[50-18-0]
cyclophosphamide hydrate	[6055-19-2]
Cyclosporin A (Cyclosporine A; Ciclosporin)	[59865-13-3]
Cyhexatin	[13121-70-5]
Cytarabine	[147-94-4]
Cytobena	[21739-91-3]
Dacarbazine	[4342-03-4]
Daminozide	[1596-84-5]
Danazol	[17230-88-5]
Daunomycin	[20830-81-3]
Daunorubicin hydrochloride	[23541-50-6]
DDD (Dichlorodiphenyldichloroethane)	[72-54-8]
DDE (Dichlorodiphenyldichloroethylene)	[72-55-9]
DDT (dichlorodiphenyltrichloroethane, 1,1,1-trichloro-2,2-bis(p-	[50-29-3]
Decaborane	[17702-41-9]
Decabromobiphenyl	[13654-09-6]
Demeclocycline hydrochloride (internal use)	[64-73-3]
Diacetyl Peroxide	[110-22-5]
Diaminotoluene (any isomer or mixed)	
Diazepam	[439-14-5]
Diazomethane	[334-88-3]
Dibenz[a,h]acridine	[226-36-8]
Dibenz[a,h]anthracene	[53-70-3]
Dibenz[a,j]acridine	[224-42-0]
Dibenzo[a,e]pyrene	[192-65-4]
Dibenzo[a,h]pyrene	[189-64-0]
Dibenzo[a,i]pyrene	[189-55-9]
Dibenzo[a,l]pyrene	[191-30-0]
Dibenzoyl Peroxide	[94-36-0]
Diborane	[19287-45-7]
Dichloroacetic acid	[79-43-6]
Dichloroacetylene	[7572-29-4]
Dichloromethane (Methylene Chloride)	[75-09-2]
Dichlorosilane	[4109-96-0]
Dichlorvos (No-Pest Strip, 2,2-dichloroethenyl dimethyl	[62-73-7]
Dicumarol	[66-76-2]
Dieldrin	[60-57-1]
Dienestrol	[84-17-3]
Diepoxybutane	[1464-53-5]

Diesel engine exhaust	
Diethyl sulfate	[64-67-5]
Diethylstilbestrol (DES)	[56-53-1]
Diethylzinc	[557-20-0]
Diglycidyl ether (di(2,3-epoxypropyl) ether)	[2238-07-5]
diglycidyl resorcinol ether (DGRE)	[101-90-6]
Dihydroergotamine mesylate	[6190-39-2]
Dihydrosafrole	[94-58-6]
Diisopropyl Peroxydicarbonate	[105-64-6]
Diisopropyl sulfate	[2973-10-6]
Dilauroyl Peroxide	[105-74-8]
Dimethyl sulfate (methyl sulfate)	[77-78-1]
Dimethylamine, Anhydrous	[124-40-3]
Dimethyldichlorosilane	[75-78-5]
Dimethyldisulfide	[624-92-0]
Dimethylformamide	[68-12-2]
Dimethylsulfide (methyl sulfide)	[75-18-3]
dimethylvinyl chloride (1-chloro-2-methylpropene)	[513-37-1]
Dinitrotoluene	[25321-14-6]
Dinitrotoluene mixture, 2,4-/2,6-	
Dinocap	[39300-45-3]
Dinoseb	[88-85-7]
Di-n-propyl isocinchomerate (MGK Repellent 326)	[136-45-8]
Dioxathion	[78-34-2]
diphenylhydantoin (phenytoin)	[57-41-0]
Diphenylhydantoin (Phenytoin), sodium salt	[630-93-3]
Direct Black 38	[1937-37-7]
Direct Brown 95 (technical grade)	[16071-86-6]
Di-t-butyl Peroxide	[110-05-4]
Doxorubicin hydrochloride (Adriamycin)	[25316-40-9]
Doxycycline (internal use)	[564-25-0]
Doxycycline calcium (internal use)	[94088-85-4]
Doxycycline hyclate (internal use)	[24390-14-5]
Doxycycline monohydrate (internal use)	[17086-28-1]
Endrin	[72-20-8]
Epichlorohydrin	[106-89-8]
Ergotamine tartrate	[379-79-3]
Erionite	[12510-42-8]
Erionite	[66733-21-9]
Estradiol 17B	[50-28-2]
estrogens, conjugated	
estrogens, nonsteroidal	
estrogens, steroidal	
Estrone (1,3,5(10)-estratrien-3-ol-17-one, beta-Estrone)	[53-16-7]
Ethidium bromide	[1239-45-8]
ethinyl estradiol	[57-63-6]
Ethionamide	[536-33-4]
Ethyl acrylate	[140-88-5]
Ethyl methanesulfonate	[62-50-0]
Ethyl Nitrite	[109-95-5]
Ethyl-4,4'-dichlorobenzilate	[510-15-6]
Ethylamine	[75-04-7]
Ethylene chlorohydrin	[107-07-3]
Ethylene Dibromide [1,2-Dibromoethane (EDB)]	[106-93-4]
Ethylene Dichloride (1,2-Dichloroethane)	[107-06-2]
Ethylene fluorohydrin	[371-62-0]
Ethylene glycol monoethyl ether	[110-80-5]
Ethylene glycol monoethyl ether acetate	[111-15-9]
Ethylene glycol monomethyl ether	[109-86-4]
Ethylene glycol monomethyl ether acetate	[110-49-6]
Ethylene oxide	[75-21-8]
Ethylene thiourea	[96-45-7]
Ethylenediamine [1,2-Ethanediamine]	[107-15-3]
Ethyleneimine (aziridine)	[151-56-4]
Etoposide	[33419-42-0]
Etretinate	[54350-48-0]
FireMaster BP-0	
Fluazifop butyl	[69806-50-4]
Flunisolide	[3385-03-3]
Fluorine	[7782-41-4]
Fluoxymesterone	[76-43-7]
Flurazepam hydrochloride	[1172-18-5]
Flutamide	[13311-84-7]
Fluticasone propionate	[80474-14-2]
Fluvalinate	[69409-94-5]
Folpet	[133-07-3]
Formaldehyde (gas or mixture of any concentration)	[50-00-0]
Furan	[110-00-9]

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APPENDIX H - Chemical Resistance Examples

Furazolidone	[67-45-8]
Furmecycloz	[60568-05-0]
furylfuramide (2-(2-furyl)-3-(5-nitro-2-furyl)acrylamide, AF-2)	[3688-53-7]
Fusarin C	[79748-81-5]
gamma-Butyrolactone	[96-48-0]
Ganciclovir sodium	[82410-32-0]
Gasoline engine exhaust (condensates/extracts)	
Germane	[7782-65-2]
Glasswool fibers (airborne particles of respirable size)	
Glu-P-1 (2-Amino-6-methylpyrido[1,2-a:3',2'-d]imidazole)	[67730-11-4]
Glu-P-2 (2-Aminopyrido[1,2-a:3',2'-d]imidazole)	[67730-10-3]
Glycidaldehyde	[765-34-4]
Glycidol	[556-52-5]
Glycol ethers	
Goserelin acetate	[65807-02-5]
Griseofulvin	[126-07-8]
Gyromitrin (Acetaldehyde methylformylhydrazone)	[16568-02-8]
Halazepam	[23092-17-3]
Halothane	[151-67-7]
HC Blue No. 1	[2784-94-3]
Heptachlor	[76-44-8]
Heptachlor epoxide	[1024-57-3]
Hexachlorobenzene (benzene hexachloride, C6Cl6)	[118-74-1]
Hexachlorobutadiene	[87-68-3]
Hexachlorocyclohexanes	[608-73-1]
Hexachlorodibenzodioxin	[34465-46-8]
Hexachloroethane	[67-72-1]
Hexafluoroacetone	[684-16-2]
Hexamethyl phosphoramide (HMPA)	[680-31-9]
Hexamethylene diisocyanate	[822-06-0]
Histrelin acetate	
Hydrazine Sulfate	[10034-93-2]
Hydrazine, anhydrous	[302-01-2]
hydrazobenzene (1,2-diphenylhydrazine)	[122-66-7]
Hydrogen	[1333-74-0]
Hydrogen Bromide	[10035-10-6]
hydrogen chloride (gas only)	[7647-01-0]
Hydrogen cyanide	[74-90-8]
hydrogen fluoride (gas or any mixture)	[7664-39-3]
Hydrogen Peroxide (52% by weight or greater)	[7722-84-1]
Hydrogen Selenide	[7783-07-5]
Hydrogen sulfide	[7783-06-4]
Hydroxylamine	[7803-49-8]
Hydroxyurea	[127-07-1]
Ifosfamide	[3778-73-2]
Indeno[1,2,3-cd]pyrene	[193-39-5]
Iodine	[7553-56-2]
Iodine-131	[10043-66-0]
Iprodione	[36734-19-7]
IQ (2-Amino-3-methylimidazo[4,5-f]quinoline)	[76180-96-6]
Iron dextran complex	[9004-66-4]
Iron pentacarbonyl	[13463-40-6]
Isobutyl nitrite	[542-56-3]
Isobutyronitrile [Propanenitrile,2-methyl-]	[78-82-0]
Isoprene	[78-79-5]
Isopropyl chloroformate [Carbonochloridic acid, 1-	[108-23-6]
Isopropyl formate	[625-55-8]
Isopropylamine	[75-31-0]
Isosafrole	[120-58-1]
Isotretinoin	[4759-48-2]
Kanechlor 500 (under Polychlorinated Biphenyls)	[37317-41-2]
Ketene	[463-51-4]
L-5-Morpholinomethyl)-3-[(5-nitro-furfurylidene)amino]-2-	[3031-51-4]
Lactofen	[77501-63-4]
Lasiocarpine	[303-34-4]
Lead	[7439-92-1]
Lead acetate	[301-04-2]
Lead arsenate	[7784-40-9]
Lead Chromate (under Chromium and Certain Chromium	[7758-97-6]
lead compounds	
lead compounds, inorganic	
Lead Phosphate	[7446-27-7]
Lead subacetate	[1335-32-6]
Leuprolide acetate	[74381-53-6]
Levonorgestrel implants	[797-63-7]
Lindane (gamma hexachlorocyclohexane, BHC gamma)	[58-89-9]
Lithium carbonate	[554-13-2]
Lithium citrate	[919-16-4]

Lorazepam	[846-49-1]
Lovastatin	[75330-75-5]
Magenta	[632-99-5]
Mancozeb	[8018-01-7]
Maneb	[12427-38-2]
m-Chlorophenol	[108-43-0]
m-diaminoanisole sulfate (2,4-diaminoanisole sulfate)	[39156-41-7]
m-Dinitrobenzene	[99-65-0]
Me-A-alpha-C (2-Amino-3-methyl-9H-pyrido[2,3-b]indole, MeA-	[68006-83-7]
Medroxyprogesterone acetate	[71-58-9]
Megestrol acetate	[595-33-5]
MelQx (2-Amino-3,8-dimethylimidazo[4,5-f]quinoxaline)	[77500-04-0]
MelQx(2-Amino-3,8-dimethylimidazo[4,5-f]quinoxaline)	[7500-04-1]
Melphalan	[148-82-3]
Menotropins	[9002-68-0]
Meprobamate	[57-53-4]
Mercaptopurine	[6112-76-1]
Mercury	[7439-97-6]
mercury compounds	
Mercury, organic cmpds	
Merphalan	[531-76-0]
Mestranol	[72-33-3]
Methacrylaldehyde	[78-85-3]
Methacryloyl chloride	[920-46-7]
Methacryloyloxyethyl isocyanate	[30674-80-7]
Methacycline hydrochloride	[3963-95-9]
Metham sodium	[137-42-8]
Methimazole	[60-56-0]
Methotrexate	[59-05-2]
Methotrexate sodium	[15475-56-6]
Methoxsalen (8-Methoxypsoralen)	[298-81-7]
Methoxyflurane	[76-38-0]
Methyl acrylonitrile	[126-98-7]
methyl allyl chloride (3-chloro-2-methylpropene)	[563-47-3]
methyl bromide	[74-83-9]
methyl carbamate	[598-55-0]
methyl chloride	[74-87-3]
methyl chloroformate	[79-22-1]
Methyl Ethyl Ketone Peroxide	[1338-23-4]
Methyl fluoroacetate	[453-18-9]
Methyl Fluorosulfate (Methyl fluorosulfonate)	[421-20-5]
methyl hydrazine (monomethylhydrazine)	[60-34-4]
methyl iodide	[74-88-4]
Methyl isocyanate	[624-83-9]
methyl mercaptan	[74-93-1]
methyl mercury compounds	
methyl methanesulfonate (methyl mesylate)	[66-27-3]
Methyl thiocyanate [Thiocyanic acid, methylester]	[555-64-9]
methyl vinyl ketone	[78-94-4]
methylamine, anhydrous	[74-89-5]
methylazoxymethanol	[590-96-5]
Methylazoxymethanol acetate	[592-62-1]
Methylene biphenyl isocyanate	[101-68-8]
Methylhydrazine salts	
Methylmercury compounds	
Methyltestosterone	[58-18-4]
Methyltrichlorosilane	[75-79-6]
Metiram	[9006-42-2]
Metronidazole	[443-48-1]
Michler's Ketone [4,4'-(Dimethylamino)benzophenone]	[90-94-8]
Midazolam hydrochloride	[59467-96-8]
Mineral Oils	
Minocycline hydrochloride (internal use)	[13614-98-7]
Mirex (Dechlorane)	[2385-85-5]
Misoprostol	[59122-46-2]
Mitomycin C	[50-07-7]
Mitoxantrone hydrochloride	[70476-82-3]
Monocrotaline	[315-22-0]
MOPP and other combined chemotherapy including alkylating	
Mustard gas (2,2'-dichlorodiethyl sulfide, Sulfur mustard)	[505-60-2]
N,N'-Diacetylbenzidine	[613-35-4]
N,N-dimethylcarbamoyl chloride (dimethylcarbamoyl chloride)	[79-44-7]
N-[4-(5-Nitro-2-furyl)-2-thiazolyl]acetamide	[531-82-8]
Nafarelin acetate	[86220-42-0]
Nafenopin	[3771-19-5]
Nalidixic acid	[389-08-2]
Naphtha (coal tar naphtha, coal tar, petroleum benzene)	[8030-30-6]
Neomycin sulfate (internal use)	[1405-10-3]

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N-ethyl-N-nitrosourea	[759-73-9]
N-Ethyl-N-nitrosovinylamine	[13256-13-8]
Netilmicin sulfate	[56391-57-2]
Nickel	[7440-02-0]
Nickel [II] Hydroxide	[12054-48-7]
Nickel Acetate	[373-02-4]
Nickel alloys	
Nickel Carbonate	[3333-67-3]
Nickel Carbonyl (Nickel Tetracarbonyl)	[13463-39-3]
Nickel compounds	
Nickel Hydroxide	[11113-74-9]
Nickel II Oxide	[1313-99-1]
Nickel refinery dust from the pyrometallurgical process	
Nickel subsulfide	[12035-72-2]
Nickelocene	[1271-28-9]
Nicotine	[54-11-5]
Niridazole	[61-57-4]
Nitric Acid (94.5% by weight or greater)	[7697-37-2]
nitric oxide (nitrogen monoxide)	[10102-43-9]
nitroacetic acid	[139-13-9]
Nitrotriacetic acid salts	
Nitrotriacetic acid, trisodium salt monohydrate	[18662-53-8]
Nitrobenzene	[98-95-3]
Nitrofurantoin	[67-20-9]
Nitrofurazone	[59-87-0]
Nitrogen Dioxide	[10102-44-0]
Nitrogen mustard (N,N-bis(2-chloroethyl)methylamine,	[51-75-2]
nitrogen mustard hydrochloride (Mechloroethamine	[55-86-7]
Nitrogen mustard N-oxide	[126-85-2]
Nitrogen mustard N-oxide hydrochloride (2-chloro-N-(2-	[302-70-5]
Nitrogen Oxides (NO; NO(2); N2O4; N2O3)	
Nitrogen tetroxide	[101022-44-0]
Nitrogen Tetroxide (Nitrogen Peroxide)	[10544-72-6]
Nitrogen Trifluoride	[7783-54-2]
nitrogen trioxide (dinitrogen trioxide)	[10544-73-7]
Nitromethane	[75-52-5]
Nitrous oxide	[10024-97-2]
N-methyl-N'-nitro-N-nitrosoguanidine	[70-25-7]
N-methyl-N-nitrosourea ( N-nitroso-N-methylurea)	[684-93-5]
N-Methyl-N-nitrosourea (N-Nitroso-N-methylurethane)	[615-53-2]
N-Methylolacrylamide	[924-42-5]
N-Nitroso- n-butyl- N-(3-carboxypropyl)amine	[38252-74-3]
N-Nitroso- n-butyl- N-(4-hydroxybutyl)amine	[3817-11-6]
N-Nitrosodiethanolamine	[1116-54-7]
N-nitrosodiethylamine (diethylnitrosamine; DEN)	[55-18-5]
N-Nitrosodimethylamine (Dimethylnitrosamine)	[62-75-9]
N-nitrosodi-n-butylamine (N-butyl-N-nitroso-1-butylamine)	[924-16-3]
N-Nitrosodiphenylamine	[86-30-6]
N-Nitrosomethylethylamine	[10595-95-6]
N-Nitrosomethylvinylamine	[4549-40-0]
N-Nitrosomorpholine	[59-89-2]
N-nitroso-N-dipropylamine (N-nitroso-N-di-n-propylamine, N-	[621-64-7]
N-Nitrosornicotine	[16543-55-8]
N-Nitrosopiperidine	[100-75-4]
n-nitrosopyrrolidine	[930-55-2]
N-Nitrososarcosine	[13256-22-9]
Norethisterone (Norethindrone)	[68-22-4]
Norethisterone acetate (Norethindrone acetate)	[51-98-9]
Norgestrel	[6533-00-2]
N-Phenyl beta-naphthylamine	[135-88-6]
o,p'-DDT	[789-02-6]
o-Aminoazotoluene	[97-56-3]
o-Anisidine	[90-04-0]
o-Anisidine hydrochloride	[134-29-2]
o-Chlorophenol	[95-57-8]
Ochratoxin A	[303-47-9]
Octabromobiphenyl	[61288-13-9]
o-Dichlorobenzene	[95-50-1]
o-Dinitrobenzene	[528-29-0]
Oleum (65% to 80% by weight; also called Fuming Sulfuric	[8014-94-6]
Oleum (Fuming Sulfuric acid) [Sulfuric acid, mixture with sulfur	[8014-95-7]
o-Nitroanisole (2-Nitroanisole)	[91-23-6]
o-Nitrotoluene	[88-72-2]
o-Phenylenediamine and its salts	[95-54-5]
Oral contraceptives, combined	
Oral contraceptives, sequential	
Organo tin compounds	
Osmium tetroxide	[20816-12-0]

o-Toluidine	[95-53-4]
o-Toluidine Hydrochloride	[636-21-5]
Oxadiazon	[19666-30-9]
Oxazepam	[604-75-1]
Oxydemeton methyl	[301-12-2]
Oxygen Difluoride (Fluorine Monoxide)	[7783-41-7]
Oxymetholone	[434-07-1]
Oxytetracycline (internal use)	[79-57-2]
Oxytetracycline hydrochloride (internal use)	[2058-46-0]
Ozone	[10028-15-6]
p-a,a,a-Tetrachlorotoluene	[5216-25-1]
Paclitaxel	[33069-62-4]
Palygorskite (attapulgit) (long fibres, > 5 micrometers)	[12174-11-7]
p-Aminoazobenzene	[60-09-3]
Panfuran S	[794-93-4]
p-Anisidine	[104-94-9]
Paramethadione	[115-67-3]
p-Chloro -o-toluidine Hydrochloride	[3165-93-3]
p-Chloroaniline	[106-47-8]
p-Chloroaniline hydrochloride	[20265-96-7]
p-Chloro-o-toluidine	[95-69-2]
p-Chloro-o-toluidine strong acid salts	
p-Chlorophenol	[106-48-9]
p-credidine (5-methyl-o-anisidine)	[120-71-8]
p-dichlorobenzene (1,4-dichlorobenzene)	[106-46-7]
p-Dinitrobenzene	[100-25-4]
Penicillamine	[52-67-5]
Pentaborane	[19624-22-7]
Pentachlorophenol	[87-86-5]
Pentobarbital sodium	[57-33-0]
Pentostatin	[53910-25-1]
peracetic acid (peroxyacetic acid)	[79-21-0]
Perchloric Acid (concentration greater than 60% by weight)	[7601-90-3]
Perchloroethylene (tetrachloroethylene)	[127-18-4]
Perchloromethyl Mercaptan	[594-42-3]
Perchloryl Fluoride	[7616-94-6]
Phenacetimide	[63-98-9]
Phenacetin (p-acetophenetidine, p-ethoxyacetanilide)	[62-44-2]
Phenazopyridine	[94-78-0]
Phenazopyridine hydrochloride	[136-40-3]
Phenesterin	[3546-10-9]
Phenobarbital	[50-06-6]
Phenolphthalein	[77-09-8]
Phenoxybenzamine	[59-96-1]
Phenoxybenzamine hydrochloride	[63-92-3]
Phenprocoumon	[435-97-2]
Phenyl glycidyl ether	[122-60-1]
Phenyldiazine	[100-63-0]
Phenyldiazine salts	
phosgene (carbonyl chloride)	[75-44-5]
Phosphine (Hydrogen Phosphide)	[7803-51-2]
phosphorus oxychloride (phosphoryl chloride)	[10025-87-3]
Phosphorus pentafluoride	[7647-19-0]
Phosphorus trichloride	[7719-12-2]
piperazine estrone sulfate (Etopipate)	[7280-37-7]
Piperidine	[110-89-4]
Pipobroman	[54-91-1]
Plicamycin	[18378-89-7]
p-Nitroaniline	[100-01-6]
p-nitrosodiphenylamine (4-nitrosodiphenylamine)	[156-10-5]
Polybrominated biphenyls (PBBs)	
Polybrominated biphenyls (PBBs)	[59536-65-1]
Polybrominated Biphenyls (PBBs)	[67774-32-7]
Polychlorinated biphenyls (PCBs)	
Polychlorinated Biphenyls (PCBs)	[1336-36-3]
Polychlorinated dibenzofurans	
Polychlorinated dibenzo-p-dioxins	
Polycyclic Aromatic Hydrocarbons (PAHs)	
Polygeenan	[53973-98-1]
Potassium bromate	[7758-01-2]
Procabazine	[671-16-9]
Procabazine Hydrochloride	[366-70-1]
Procyimdone	[32809-16-8]
Progesterone	[57-83-0]
Progestins	
Pronamide	[23950-58-5]
Propargite	[2312-35-8]
Propionitrile [Propanenitrile]	[107-12-0]

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Propyl chloroformate [Carbonochloridic acid, propylester]	[109-61-5]
Propyl Nitrate	[627-3-5]
Propylene oxide	[75-56-9]
Propylenimine (2-Methylaziridine)	[75-55-8]
Propylthiouracil	[51-52-5]
p-Toluidine	[106-49-0]
Quazepam	[36735-22-5]
Quinoline	[91-22-5]
Quinoline strong acid salts	
Radionuclides	
Radon	[10043-92-2]
Radon decay products	
Reserpine (Regroton)	[50-55-5]
Residual (heavy) fuel oils	
Resmethrin	[10453-86-8]
Resorcinol	[108-46-3]
Retinol/retinyl esters	
Ribavirin	[36791-04-5]
Rockwool	
saccharin (benzisothiazol-3(2H)-one-1,1-dioxide)	[81-07-2]
Saccharin, sodium	[128-44-9]
Safrole	[94-59-7]
Salicylazosulfapyridine	[599-79-1]
Sarin (isopropyl methane fluorophosphate)	[107-44-8]
Secobarbital sodium	[309-43-3]
Selenium	[7782-49-2]
Selenium hexafluoride	[7783-79-1]
Selenium sulfide	[7446-34-6]
Selenium, and all cmpds	
Shale-oils	[68308-34-9]
Silica - amorphous	[7699-41-4]
Silica - amorphous, fused	[60676-86-0]
Silica - crystalline, tripoli	[1317-95-9]
Silica - Tridymite (respirable)	[15468-32-3]
silica (quartz, respirable)	[14808-60-7]
Silica, crystalline (airborne particles of respirable size)	
Silica, crystalline, cristobalite	[14464-46-1]
Silicon tetrafluoride	[7783-61-1]
Slagwool	
Sodium Equilin Sulfate (under Conjugated Estrogens)	[16680-47-0]
Sodium Estrone Sulfate (under Conjugated Estrogens)	[438-67-5]
Sodium fluoroacetate	[62-74-8]
Sodium o-phenylphenate	[132-27-4]
Soots, tars, and mineral oils (untreated and mildly treated oils)	
Spironolactone	[52-01-7]
Stanozolol	[10418-03-8]
Sterigmatocystin	[10048-13-2]
Stibine (antimony trihydride)	[7803-52-3]
Streptomycin sulfate	[3810-74-0]
Streptozotocin	[18883-66-4]
Strontium Chromate (under Chromium and Certain Chromium)	[7789-06-2]
Styrene (phenylethylene, vinyl benzene)	[100-42-5]
styrene oxide (styrene-7,8-oxide)	[96-09-3]
Sulfallate (diethyldithiocarbamic acid 2-chlorallyl ester)	[95-06-7]
sulfur dioxide	[7446-09-5]
sulfur monochloride (sulfur chloride, disulfur dichloride)	[10025-67-9]
sulfur pentafluoride (disulfur decafluoride)	[5714-22-7]
sulfur pentafluoride (radical)	[10546-01-7]
sulfur tetrafluoride	[7783-60-0]
sulfur trioxide (sulfuric anhydride)	[7446-11-9]
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]
Temazepam	[846-50-4]
Teniposide	[29767-20-2]

Terrazole	[2593-15-9]
Testosterone and its esters	[58-22-0]
Testosterone cypionate	[58-20-8]
Testosterone enanthate	[315-37-7]
Tetracycline (internal use)	[60-54-8]
Tetracycline hydrochloride (internal use)	[64-75-5]
Tetrafluoroethylene	[116-14-3]
Tetrafluorohydrazine	[10036-47-2]
Tetramethyl Lead	[75-74-1]
Tetramethyl succinonitrile	[3333-52-6]
Tetranitromethane	[509-14-8]
Thalidomide	[50-35-1]
Thioacetamide	[62-55-5]
Thioguanine	[154-42-7]
Thionyl chloride	[7719-09-7]
Thiotepa (tris(1-aziridinyl)phosphine sulfide)	[52-24-4]
Thiourea	[62-56-6]
Thorium Dioxide	[1314-20-1]
Titanium tetrachloride [Titanium chloride (TiCl4) (T-4)]	[7550-45-0]
Tobramycin sulfate	[49842-07-1]
Toluene	[108-88-3]
Toluene 2, 6- diisocyanate [Benzene, 1,3- diisocyanato-2-	[91-08-7]
Toluene diisocyanates (any isomer or mixed)	[26471-62-5]
Toluene-2,4-diisocyanate	[584-84-9]
Toxaphene (chlorinated camphene)	[8001-35-2]
trans-2-[(Dimethylamino)methylimino]-5-[2-(5-nitro-2-furyl)-	[25962-77-0]
trans-2-[(Dimethylamino)methylimino]-5-[2-(5-nitro-2-	[55738-54-0]
Treosulfan (Treosulphan)	[299-75-2]
Triazolam	[28911-01-5]
Trichlormethine (trimustine hydrochloride, 2,2',2''-	[817-09-4]
trichloro (chloromethyl) silane	[1558-25-4]
Trichloro (dichlorophenyl) Silane	[27137-85-5]
Trichloroethylene	[79-01-6]
Trichlorosilane	[10025-78-2]
Triethylamine (TEA)	[121-44-8]
Trifluorochloroethylene	[79-38-9]
Trilostane	[13647-35-3]
Trimethadione	[127-48-0]
Trimethylchlorosilane [Silane, chlorotrimethyl-]	[75-77-4]
Trimethyl phosphate	[512-56-1]
Trimethylamine	[75-50-3]
Trimethoxysilane	[2487-90-3]
Trimetrexate glucuronate	[82952-64-5]
Triphenyltin hydroxide	[76-87-9]
Tris(2,3-dibromopropyl) phosphate	[126-72-7]
Tris(2-chloroethyl) phosphate	[115-96-8]
Tris(aziridinyl)-p-benzoquinone (Triaziqnone)	[68-76-8]
Tryptophan-P-1 (3-Amino-1,4-dimethyl-5H-pyrido[4,3-b]indole,	[62450-06-0]
Tryptophan-P-2 (3-Amino-1-methyl-5H-pyrido[4,3-b]indole, Trp-	[62450-07-1]
Uracil mustard	[66-75-1]
Uranium, all cmpds	
Uranium, natural	[7440-61-1]
Urethane (Urethan; Ethyl carbamate)	[51-79-6]
Urofollitropin	[26995-91-5]
Valproate (Valproic acid)	[99-66-1]
Vinblastine sulfate	[143-67-9]
Vinclozolin	[50471-44-8]
Vincristine	[57-22-7]
Vincristine sulfate	[2068-78-2]
Vinyl acetate	[108-05-4]
Vinyl bromide	[593-60-2]
Vinyl chloride	[75-01-4]
Vinyl fluoride	[75-02-5]
Vinylidene fluoride (1,1-difluoroethylene)	[75-38-7]
Warfarin (in any quantity or concentration)	[81-81-2]
Wood dusts (hardwoods)	
Zinc Chromate	[13530-65-9]
Zineb	[12122-67-7]

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