

Fire Diamond HFRS Ratings

CHEMICAL	H	F	R	Special Hazards
1-aminobenzotriazole	0	1	0	
1-butanol	2	3	0	
1-heptanesulfonic acid sodium salt				not hazardous
1-methylimidazole	3	2	1	corrosive, toxic
1-methyl-2-pyrrolidinone, anhydrous	2	2	1	
1-propanol	2	3	0	
1-pyrrolidinecarbonyl chloride	3	1	0	
1,1,1,3,3,3-Hexamethyldisilazane 98%	3	3	2	corrosive
1,2-dibromo-3-chloropropane				regulated carcinogen
1,2-dichloroethane	1	3	1	
1,2-dimethoxyethane	1	3	0	peroxide former
1,2-propanediol	0	1	0	
1,2,3-heptanetriol	2	0	0	
1,2,4-trichlorobenzene	2	1	0	
1,3-butadiene				regulated carcinogen
1,4-diazabicyclo(2,2,2)octane	2	2	1	flammable
1,4-dioxane	2	3	1	carcinogen, may form explosive mixture in air
1,6-hexanediol	1	0	0	
1,10-phenanthroline	2	1	0	
2-acetylaminofluorene				regulated carcinogen, skin absorption
2-aminobenzamide	1	1	1	
2-aminoethanol	3	2	0	corrosive
2-Aminoethylisothiuronium bromide hydrobromide	2	0	0	
2-aminopurine	1	0	0	
2-amino-2-methyl-1,3-propanediol	0	1	1	
2-chloroaniline (4,4-methylenebis)				regulated carcinogen
2-deoxycytidine	1	0	1	
2-dimethylaminoethanol				
2-ethoxyethanol	2	2	0	reproductive hazard, skin absorption

2-hydroxyoctanoic acid	2	0	0	
2-mercaptonethanol	3	2	1	
2-Mercaptoethylamine	2	0	1	
2-methoxyethanol	1	2	1	may form peroxides
2-methoxyethyl ether	1	2	1	may form peroxides
2-methylamino ethanol	3	2	0	corrosive, poss.sensitizer
2-methyl-3-buten-2-ol	2	3	0	
2-methylbutane	1	4	0	
2-naphthyl methyl ketone	1	1	1	
2-nitrobenzoic acid	2	0	0	
2-nitrofluorene	0	0	1	
2-nitrophenol	2	1	1	
2-propanol	1	3	0	
2-thenoyltrifluoroacetone	1	1	1	
2,2-oxydiethanol	1	1	0	
2,2,2-tribromoethanol	2	0	1	
2,2,4-trimethylpentane	1	3	0	
2,3-butanedione monoxime	1	0	0	
2,4-diaminophenol dihydrochloride	2	1	1	
2,4-dinitrophenol	3	3	1	
2,4-dinitrofluorobenzene	3	0	1	sensitizer
2,4 dinitrophenylhydrazine	2	2	2	heat can explode
2,5-diphenyl-1,3,4-oxadiazole	1	1	0	
2,6-dichlorophenol	3	0	0	corrosive
2,6,10,14-tetramethyl pentadecane				irritant
2,7-diaminofluorene	2	0	1	
2,7-dichlorofluorescein	1	0	0	
3-aminobenzamide	1	1	0	
3-aminobenzoic acid ethyl ester	2	0	0	
3-aminopropyltriethoxysilane	3	1	1	
3-amino-1,2,4-triazole	1	1	2	
3-amino-9-ethylcarbazole	0	1	0	
3-chloroperoxybenzoic acid	2	0	3	strong oxidizer

3-heptanone	2	2	0	
3-indoleacrylic acid	2	1	0	irritant
3-mercaptopropionic acid	2	1	1	
3-nitropropionic acid	3	1	0	
3-n-morpholino propansulfonic acid (MOPS)	1	1	0	
3-o-methyl-d-glucopyranose	1	0	0	
3,3-diaminobenzidine	2	0	1	
3,3-diaminobenzidine tetrahydrochloride dihydrate	0	1	0	
3,3-dimethoxybenzidine	1	0	0	
3,3-dimethylglutaric acid	1	1	1	
3-3-dichlorobenzidine and salts	2	1	1	regulated carcinogen
3,5-diaminobenzoic acid	2	0	0	
3,5-dinitrosalicylic acid	1	1	1	
4-aminobenzoic hydrazine	0	1	0	
4-aminodiphenyl	2	1	0	regulated carcinogen
4-Aminophenol	1	1	1	
4-aminophthalhydrazide	1	1	0	
4-dimethylaminoazobenzene	2	1	0	regulated carcinogen
4-ethoxymethylene-2-phenyl-2-oxazolin-5-one				
4-hydroxybenzaldehyde	2	0	0	irritant
4-hydroxyphenylacetic acid	2	0	0	
4-iodophenol	0	1	0	
4-methylumbelliferone phosphate	1	0	0	
4-nitrobiphenyl				regulated carcinogen
4-nitrophenol				not hazardous?
4-nitroquinoline n-oxide	0	0	0	may cause cancer
4,4-methylenebis (2-chloroaniline)				regulated carcinogen
4,6-diamidino-2-phenylindole				irritant
5-amino-2,3-dihydro-1,4-phthalazinedione	0	1	0	
5-azacytidine	1	0	1	possible carcinogen/mutagen
5-bromo-2-deoxyuridine				possible mutagen/teratogen
5-bromo-4-chloro-3-indolyl-beta-D-galactopyranoside	0	1	0	
5-bromouracil	1	0	0	

5-fluorouracil	3	1	1	carcinogen, corrosive
5-methylcytosine hcl	1	1	0	
5-sulfosalicylic acid	1	0	0	
5,5-dithio-bis (2-nitrobenzoic acid)	0	1	0	
6-aminocaproic acid	2	1	1	
6-mercapto-1-hexanol	2	0	0	
7-aminoactinomycin D	3	0	1	highly toxic, possible sensitizer
7-ethoxycoumarin	0	1	0	
8-anilino-1-naphthalenesulfonic acid	0	1	0	
8-hydroxyquinoline	2	1	0	
acetal				peroxide former?
acetaldehyde	3	4	2	may form peroxides in air
acetamide	1	1	0	
acetic acid	3	0	0	
acetic acid glacial	3	2	0	
acetic anhydride	3	2	1	
acetone	1	3	0	
acetonitrile	2	3	0	
acetonylbenzyl hydroxycoumarin				toxic
acetophenone	2	2	0	
acetopromazine				toxic
acetovanillone	1	1	0	
acetylacetone	2	3	1	
acetyl phosphate	1	0	0	
acetylene	1	4	3	
acetylpyridine (2)	0	2	0	
acetylthiocholine iodide	0	1	0	
aconitic acid	0	1	1	
acridine orange	0	1	0	
acriflavine	2	0	0	
acrylamide	2	2	2	carcinogen; skin absorb
acrylic acid	3	2	2	class 3 peroxide former; corrosive

acrylonitrile	4	3	2	regulated carcinogen; class 3 peroxide former, poss. sensitizer
actinomycin d	3	1	0	carcinogen & reproductive haz
acycloguanosine	?	0	0	
adenine	2	0	0	
adipic acid	1	1	1	
aec (aminoethylcarbozole)	0	1	0	
agarose	1	0	0	
alanine	1	0	1	
Alcian Blue 8GX	1	0	0	
alcohol	1	3	0	
alconox alconox	1	1	1	detergent powder
aldicarb 1 gm neat	3	1	0	lachrymator
alizarin	1	0	0	
alizarin red s	2	1	0	
allyl alcohol 99%	3	3	1	
alpha chymotrypsin	3	0	0	possible sensitizer
alpha-ketoglutaric acid	2	1	0	
alpha-naphthylamine				regulated carcinogen
alumina powder	1	0	0	
aluminum ammonium sulfate	1	0	0	
aluminum hydroxide	1	0	0	
aluminum nitrate	2	0	3	
aluminum potassium sulfate	1	0	0	oxidizer
aluminum sulfate	2	0	0	
amaranth	2	0	0	
amberlite	1	1	0	
amethopterin	2	0	1	teratogen
amido black 10B	1	0	0	
amido black staining solution (electroph. Reagn.)	3	3	0	flammable corrosive
amiloride HCL	3	0	0	
ammonia solution 32%	3	1	0	causes burns
ammonium acetate	1	1	0	
ammonium bicarbonate	1	0	0	

ammonium chloride	2	0	0	
ammonium fluoride	3	0	0	
ammonium formate	2	1	0	
ammonium hydroxide	3	1	0	corrosive
ammonium meta-vanadate	3	0	0	
ammonium oxalate	3	1	0	
ammonium perchlorate	2	0	4	oxidizer
ammonium peroxydisulfate	3	0	3	
ammonium persulfate	1	3	0	oxidizer
ammonium sulfate	2	1	1	
ammonium thiocyanate	2	0	1	
ammonium vanadate	3	0	0	
amphyl disinfectant cleaner	3	2	0	corrosive
ampicillin	2	0	0	
amplitaq gold with gene amp 10x (buffer)	1	0	0	
amyl acetate	1	3	0	
amyl alcohol	1	3	0	
aniline	3	2	0	possible carcinogen
aniline blue	1	0	0	
anisole	1	2	0	
anthracene	1	1	0	
anthranilic acid	2	0	0	
anthrone crystals	0	1	1	causes photosensitivity
aphidicolin	2	0	0	
aprotinin	1	0	0	
aqua clean detergent	2	0	1	
aqua clean				metal powders: Sn, Bi, Ag, Cu
aquacide I	1	1	0	
aquasol	2	1	0	
arabinose	0	1	1	
araldite resin	2	1	1	
arbutin	0	0	0	
arginine I	0	0	0	irritant

arsenic (inorganic)	3	0	0	regulated carcinogen
asbestos	3	0	0	regulated carcinogen
atenolol	1	0	0	
ascarite II	3	0	1	corrosive
asolectin				soybean phospho lipid
atractyloside	2	1	0	
azocarmine b	0	0	0	
azoene fast violet b salt				shock sensitive > 60°C
azure a	1	0	0	
barium chloride	1	0	0	
barium hydroxide	3	0	0	corrosive
barium nitrate	2	0	0	oxidizer
barium sulfate	1	0	0	
bathocuproinedisulfonic acid				irritant
Bathophenanthrolinedisulfonic acid	0	0	0	
bengal rose b for microscopy	1	0	0	
bentonite	2	0	0	
beta-naphthylamine				regulated carcinogen
benzalkonium chloride	3	1	0	
benzamide	1	1	0	
Benzamidine Hydrochloride Hydrate	2	0	1	
benzamidine sepharose 6b	2	2	0	
benzene	3	3	1	regulated carcinogen
benzidine	2	0	0	regulated carcinogen & salts
benzoic acid	2	1	0	
benzoyl peroxide	1	4	4	oxidizer
benzylaminopurine	1	1	0	
Benzyl Benzoate	1	1	0	
beryllium chloride	3	0	1	
betadyne	0	0	0	
beta estradiol	0	0	0	may cause cancer
betaine anhydrous	0	0	1	

BCA protein assay kit	1	0	0	
BES (bishydroxyethylaminoethane sulfonic acid)	1	1	1	
betaine				
beta-mercaptoethanol	3	2	0	
beta-naphthylamine				regulated carcinogen
beta-propiolactone (betaprone)				regulated carcinogen
b-glycero-phosphate	0	0	0	
bgl II	0	0	0	
bicinchoninic acid solution	2	0	0	irritant
bicine	1	0	0	
bis-acrylamide	2	1	1	
bis-chloromethyl ether				regulated carcinogen
bismuth metal	1	1	0	
bismuth oxynitrate crystals	2	0	3	oxidizer
bismuth nitrate	1	0	3	oxidizer
bis-n,n-methylene-bis acrylamide	2	1	2	
bis(trichloromethyl) carbonate	3	0	1	corrosive
bis-tris	1	0	0	
bleach	2	0	0	corrosive
Blue Textran	0	0	0	
bongkrelic acid	1	0	1	
borax	0	0	0	mark
boric acid	2	0	0	
boron trichloride	3	0	2	
boron trifluoride methanol	3	3	1	
bovine serum albumin (BSA)	0	0	1	
brefeldin a	2	0	0	
brij 58	0	0	0	
brilliant blue r	1	0	0	
bromcresol green	1	0	0	
bromophenol blue	1	1	0	
BSA 25mL	3	2	2	water reactive
butadiene				class 3 peroxide former

butanol	1	3	0	
butyl alcohol	1	3	0	
butylated hydroxyanisole	1	1	1	
Butyl p-hydroxybenzoate	1	1	0	
butyric acid	3	2	0	
cacodylic acid	2	0	0	
cadaverine dihydrochloride	0	1	0	
cadmium	4	0	0	regulated carcinogen;pyrophoric
cadmium acetate	2	1	0	
cadmium chloride	3	1	0	
cadmium nitrate	2	0	0	oxidizer
cadmium perchlorate hydrate	1	1	3	oxidizer
caffeine	2	1	0	
calcium acetate	0	1	0	corrosive/oxidizer
calcium chloride	2	0	0	
calcium hydride	2	1	1	water reactive
calcium hydroxide	2	0	0	corrosive
calcium ionophore	1	0	0	
calcium nitrate	1	0	3	oxidizer
calcium sulfate anhydrous	2	0	1	
CAPS	1	0	0	
captopril tablets	2	0	0	
carbachol	4	1	1	
carbenicillin	1	0	0	
carbon dioxide gas	1	0	0	
carbon tetrachloride	3	0	0	
carbonyl cyanide m-chlorophenyl hydrazone	2	0	0	
carbowax PEG 8000	0	1	0	
casein	1	0	0	
catalase	0	1	1	
catechol	3	1	0	corrosive
cavacide disinfectant	1	2	0	

cesium chloride	1	0	0	
cesium iodide	1	0	0	
cesium methanesulfonate	2	0	0	
cesium trifluoroacetate	2	1	1	
Cetyltrimethylammonium bromide	2	0	0	
CHAPS (cholamidopropyltrimethylammonopropane sulfate)	2	0	0	
chloramphenicol	2	1	0	
chlorine	4	0	0	oxidizer
chlorine tablets	3	0	2	
chloroacetaldehyde	3	2	0	
chlorobenzene	3	3	0	
chlorobutadiene				class 3 peroxide former
chloroform	2	0	0	
chloromethyl dimethylchlorosilane	3	3	3	water reactive
chloroquine diphosphate	1	0	1	
chloroquine sulfate	2	1	1	possible sensitizer
chlorophenol	2	2	0	
chlorotrifluoroethylene				class 3 peroxide former
cholic acid	1	1	1	
chromerge	3	0	1	
chromic acid	3	0	1	
chromium III acetylacetonate	2	1	0	
chromium VI oxide	3	0	1	
chromium potassium sulfate	1	0	0	
chromium trioxide	3	0	1	oxidizer, carcinogen, corrosive
chymotrypsin (alpha)	3	0	0	possible sensitizer
citraconic anhydride	2	0	1	
citric acid	1	1	0	
cisplatin	3	1	3	
cobalt acetate	1	0	0	
cobalt chloride	2	0	0	
cobalt nitrate	2	0	0	oxidizer
colchicine	3	1	1	

coomasie brilliant blue	2	1	1	
copper (II) sulfate	1	0	1	
crystal violet	2	0	1	
cumene				class 2 peroxide former
cupric sulfate	2	0	0	
cutting oil	1	4	0	
cupric nitrate (copper II nitrate)	1	0	0	
cyanocobalamin	1	1	0	
cyanogen bromide	3	1	2	
cyclohexane	1	3	0	
cyclohexanol	1	1	1	
cyclohexanone	2	2	0	
cyclohexene				class 2 peroxide former
cycloheximide	4	1	1	teratogen, poss. Sensitizer
cyclopentene				class 2 peroxide former
Cyclopiazonic acid	3	0	0	
cytofexene tfx reagent	0	0	0	
cytosine-beta-d-arabinofuranoside	2	0	0	
dako cytomation elisa kit part a	2	0	1	
darocur	2	1	0	
darvan	2	1	0	
DEAE Dextran	2	0	0	
decane	2	2	0	
Denhardt's solution	1	0	0	
deoxycholic acid	1	1	1	
DEPC (diethyl pyrocarbonate)	2	2	0	
deuterium	1	4	0	
developer	2	4	0	
desferal	2	0	0	possible sensitizer
dexamethasone	0	1	1	
dextran sulfate	0	0	0	
dextrose	0	0	0	mark

deuterium oxide	0	0	1	
diacetylene				class 2 peroxide former
diaminobenzidine (DAB)	1	0	1	
diazoxide	2	0	0	
dicumarol	3	1	0	
diethanolamine	1	2	1	
diethylamine	3	3	0	corrosive/poss. Senst.
Diethyl oxydiformate	1	2	1	
diethyl pyrocarbonate (DEPC)	2	2	0	
digitonin	2	1	0	
dimethyl suberimidate	1	0	0	
d-gluconic acid	3	0	0	
d-glucose	0	0	0	
diallyltartardiamide	2	0	0	irritant
dibutyl phthalate	2	1	0	
dichloromethane	2	1	0	regulated carcinogen
dichloromethyl silane	4	3	2	corrosive/water reactive
dicyclohexylcarbodiimide	3	1	1	
dicyclopentadiene				class 2 peroxide former
diethanolamine	1	2	1	corrosive
diethyl ether	1	4	1	peroxide former
DEPC look above				
dihexyl sulfosuccinate sodium	1	0	0	
dimethyl amine (DMA)	3	4	0	regulated carcinogen
dimethyl aminoethanol	3	2	0	corrosive
dimethyl anthracene	1	1	1	may cause cancer
dimethyldichlorosilane	3	3	1	water reactive
dimethyl formamide	2	2	0	
dimethyl phthalate (DMP)	1	1	0	
dimethyl pimelimidate dihydrochloride (DMP)	0	1	0	
dimethyl sulfate	4	2	1	toxic, corrosive, lachrymotor,
dimethyl sulfoxide (DMSO)	1	2	1	
dinitrofluorobenzene	3	0	1	sensitizer

dinitrophenol	3	3	2	peroxide former?
dinitrophenylhydrazine	2	2	2	peroxide former?
dioxane	2	3	1	peroxide former
diphenylamine	3	1	0	
dipyridamole	1	0	1	
disodium ethylenediamine tetraacetate	2		0	
disodium phosphate (DSP)	?			
disodium succinate	2	0	0	
Dis-Spray disinfectant	1	3	0	
Disuccinimidyl Glutarate	0	0	0	
dithiothreitol (DTT)	2	1	1	
divinyl acetylene				class 1 peroxide former
divinyl ether				class 1 peroxide former
dl-ethionine	2	0	0	
dl-isoleucine	1	1	1	
dl-methionine	1	1	1	
d-mannitol	0	0	0	
dnase 1	1	0	0	
dodecanyl succinic anhydride (DDSA)	0	1	1	
dodecyl sodium sulfate	1	0	0	
dsp	1	0	0	
dtssp	1	0	0	
DTT (Dithiothreitol)	1	1	0	
Dulbecco's Phosphate Buffered Saline (DPBS)	0	0	0	
ecolume ?				
EDC (ethylene dichloride)	2	3	0	
EDTA Disodium salt	1	1	0	
EGF (epidermal growth factor)				
EGTA (ethylenebis (oxyethelenenitrilo) tetracetic acid)	1	1	0	
elvanol				
emetine dihydrochloride	4	1	0	
epoxy glue/resin	3	1	0	poss. Sensitizer

erythromycin	1	0	0	
EHDP (ethane-1-hydroxy-1, 1 diphosphonic acid)	2	0	0	eye hazard
ethanol	0	3	0	
ethanolamine	3	2	0	
ethanolamine hydrochloride	0	0	0	
ether	1	4	1	
ethidium bromide	3	0	0	
ethrane ?				
ethyl acetate	1	3	0	
ethyl alcohol	0	3	0	
ethylene bromide (1,2-dibromoethane)	3	0	0	poss. Carcinogen
ethylenediaminetetraacetic acid (EDTA)	2	1	0	
ethylene dibromide (EDB)				regulated carcinogen
ethylene dichloride	2	3	0	carcinogen
ethylene glycol-bis(B-aminoethyl ether)	0	0	0	
ethylene glycol-bis (b-aminoethyl ether) n,n,n,n tetraacetic acid		0	0	
ethylene glycol	2	1	1	
Ethylene Glycol Dimethyl Ether				class 2 peroxide former
ethyleneimine				regulated carcinogen
ethylene oxide				regulated carcinogen
ethyl ether	2	4	3	peroxide former
etoposide	3	1	0	
fast green fcf	1	1	1	harmful
fbs (fetal bovine serum)				
ferric ammonium sulfate	1	0	0	
ferric chloride	1	0	1	
ferrous ammonium sulfate	2	0	0	
ferrous sulfate	1	0	0	
ficoll	1	0	0	
fixative	3	2	0	
flufenamic acid	1	1	0	
fluoboric acid	3	0	0	

fluorine	4	0	4	water reactive/oxidizer
fluorescein	2	0	0	
Fluorescein isothiocyanate	1	0	0	poss. Sensitizer
folate	3	0	1	corrosive; NaOH
folin & ciocalteu phenol reagent	3	0	0	toxic & corrosive
forane (see isoflurane)				anesthetic
formaldehyde (water solution)	2	2	0	
formaldehyde 37%	3	2	0	regulated carcinogen
formaldehyde solution	3	4	0	regulated carcinogen
formalin	2	1	0	
formamide	2	1	0	
formic acid	3	2	0	
formvar	2	3	0	
forskolin	0	1	0	
fuchsin acid	2	1	0	
fucoïdan	0	1	0	
fumaric acid	2	1	1	
furan				class 2 peroxide former
fusaric acid	2	0	0	
gadolinium chloride	1	0	0	
gasoline	1	3	0	
geneticin (crystalline)	1	0	0	
glacial acetic acid	3	2	0	
glucopyranoside (kanamycin)	3	1	1	
glutaraldehyde	3	0	0	sensitizer
glutaric anhydride	1	1	1	
glutathione	0	0	0	
glycerol	1	1	0	
glycine	1	0	0	
glycogen	1	1	0	
glycolic acid	3	1	1	toxic corrosive
glyoxal	1	0	0	irritant

glyoxylic acid monohydrate	3	0	1	corrosive
guanidine hydrochloride	2	1	0	
guanidine isothiocyanate	3	0	0	
guanidine thiocyanate	2	0	0	
gum arabic	1	1	0	
halothane	2	0	0	
HBTU	2	1	0	
helium gas	1	0	0	
helium liquid	0	0	0	
hematoxylin	1	0	0	
hepes	1	0	0	
hexadecyltrimethylammonium bromide	2	1	0	
hexaethylene glycol monododecyl ether				irritant
hexafluoroisopropanol	3	0	0	
hexamethonium bromide	1	0	1	
hexamethyldisilazane	3	3	1	toxic skin absorption, corrosive
hexamethylenetetramine	2	1	0	
hexamine cobalt 3 chloride	1	0	0	
hexane	1	3	0	
hexanoic acid	3	1	0	tissue burns
homovanillic acid				
hydrazine	3	3	3	sensitizer, water reactive, unstable
hydrazine dihydrochloride	2	0	0	
hydrazine sulfate	3	1	1	
hydrindantin	0	1	1	
hydrobromic acid in acetic acid	3	2	0	
hydrochloric acid	3	0	0	corrosive
hydrofluoric acid	4	0	0	
hydrogen peroxide	2	0	1	oxidizer
hydroiodic acid	3	0	0	
hydroquinone	2	1	0	
hydroxyethyl starch	0	0	0	

hydroxyl amine	3	0	0	
hydroxylamine hydrochloride	2	1	2	heat can explode, poss. Sens.
hydroxybenzaldehyde (4)	2	0	0	irritant
hydroxy phenylacetic acid	1	0	1	irritant
hydroxyurea	1	1	0	
hygromycin B	2	0	0	
hypophosphorous acid	3	1	1	
hypoxanthine	1	1	1	
igepal CA-630	3?	1	0	irritant
IMDM (iscoves modified dulbeccos medium)	1	0	0	
imidazole	3	1	0	corrosive
inosine	0	1	0	
inositol	0	0	0	
iodine	3	0	0	
iodoacetamide	3	1	1	
iodoacetic acid	3	1	0	
ionomycin	1	0	0	
iptg	2	1	0	
irgacure	1	1	0	
iso-amyl alcohol	1	2	0	
isobutanol	1	3	1	
isocaproic acid	2	1	0	
isoflurane (forane)	0	0	0	anesthetic
isopropanol	1	3	1	
isopropanol anhydrous	1	3	0	
isopropyl ether	1	3	1	class 1 peroxide former
isoproterenol	2	0	0	
itaconic acid	3	1	0	eye hazard
kanamycin	3	1	1	poss. Teratogen
kanamycin sulfate	2	1	0	
kerosine	1	2	0	corrosive

ketoglutaric acid	1	1	1	
ketostix				nonhaz
lacquer thinner	2	3	0	
lactic acid	3	1	0	
lanthanum acetate	1	0	1	
lanthanum nitrate	2	0	2	oxidizer
L-ascorbic acid	1	0	0	
laureldimethylamine n-oxide				
lauroysarcosine (n)	3	0	0	irritant
lauryl sulfate (SDS)	2	0	1	
lauric acid	4	1	0	highly toxic inhalant
lead acetate	3	1	0	
lead nitrate	3	0	1	oxidizer
lecithin	0	0	0	
levamisole hcl	2	0	0	
lipofectamine 2000	0	0	0	
l-glutamic acid	1	0	0	
L-histidine	1	0	0	
l-mimosine	0	1	0	
linoleic acid	0	0	0	
linseed oil	0	1	0	
lithium acetate	1	0	0	
Lithium carbonate	2	0	0	
lithium chloride	2	0	0	
lithium fluoride	2	0	0	
lithium hydroxide	3	1	1	
lithium nitrate	2	0	1	
lithocholic acid	1	0	0	
L-leucine	1	0	0	
L-methionine	1	0	0	
l-phenylalanine	1	0	0	
L-proline	1	0	0	

I-threonine	1	1	1	
L-tryptophan	1	0	0	
lubrol type px				harmful, irritant to skin
I-valine	2	1	1	
lysozyme	0	0	0	
magnesium acetate	1	0	0	
magnesium chloride	2	0	0	
magnesium chloride (hexahydrate)	1	0	0	
magnesium hydroxide	0	0	0	
magnesium oxide	1	0	0	
magnesium perchlorate	1	0	0	oxidizer
magnesium sulfate	1	0	0	
manganese chloride tetrahydrate	2	0	0	
maleic acid	3	0	1	corrosive
malonic acid	2	1	0	
mannitol	0	1	0	
mbs	2	1	0	
Mercaptoacetic acid, sodium salt	2	0	0	
mercaptoethanol	2	2	0	
mercuric acetate	3	0	0	
mercuric chloride	3	0	0	
mercuric oxide	3	1	0	oxidizer
mercury	3	0	0	corrosive
MES buffering agent	0	1	1	possible sensitizer
meso-tartaric acid	0	1	1	
methacrylate (AMA)	3	3	2	
methacrylic acid	3	2	2	corrosive
methane sulfonic acid 70%	3	0	1	
methanesulfonic acid methyl ester	2	0	0	
methanol	1	3	0	
METHYL 1-(BUTYLCARBAMOYL)-2-BENZIMIDAZOL E-CARBAMAT	2	0	0	

methylacetylene				class 2 peroxide former
methyl alcohol	2	3	0	
methylamine hydrochloride	1	1	0	
methylaminophenol sulfate (4)	2	1	0	
methyl benzoate	1	2	0	
methyl chloride	2	4	0	
methyl chloromethylether				regulated carcinogen
methyl cyanide (aka acetonitrile)				
methylcyclopentane				class 2 peroxide former
methylene blue	2	0	1	
methylene chloride	2	1	0	regulated carcinogen
methylene dianiline				regulated carcinogen
methyl ethyl ketone	1	3	0	
methyl ethyl ketone peroxide	2	2	2	oxidizer
methyl green	1	0	0	
methyl iodide	3	0	0	
methyl isobutyl ketone				class 2 peroxide former
methylmercury	4	3	2	
methyl mercuric chloride	4	1	0	
methyl methacrylate	2	3	2	class 3 peroxide former; polymerization explosive
methyl methanesulfonate	2	1	0	
methyl salicylate	1	1	0	
methyl sulfoxide	0	2	1	
methylenebisacrylamide	2	0	1	
methyl mannopyranoside	0	1	0	
methyl orange sodium salt	2	1	1	
methylsuccinic acid	1	1	0	
methylsulfuric acid (potassium salt)				
methyl thiocyanate	2	2	1	
methyl viologen dichloride hydrate	2	0	0	
metofane (methoxyflurane)	1	2	0	
mineral oil	0	1	0	
mitomycin c	3	0	0	

molecular sieve	1	0	1	
molybdic acid	1	0	0	
monoethanolamine	3	1	0	corrosive
MOPS	2	0	0	
mowiol 4-88	0	2	0	
mscl (methane sulfonyl chloride)	2	1	0	?
MTT formazan	1	0	0	
murexide	1	1	1	
mycophenolic acid	2	1	0	
nac	1	0	0	
nadh	0	1	0	
nadic methyl anhydride	3	1	2	
nalidixic acid	2	1	0	
naphthene 2 acetic acid	1	1	1	
naphthalenesulfonic acid				irritant
Naphthol AS-BI Phosphoric Acid solution	2	2	0	
n-butanol	2	3	0	
n-butyric acid	3	2	0	
n-ethylmaleimide	3	2	0	
neuraminidase (sialidase)	1	0	0	
nhs (n-hydroxysuccinimidobiotin)	1	0	0	
niacinamide	2	0	0	
nickel ammonium sulfate	2	0	0	
nickel (II) sulfate hexahydrate	2	0	0	may sensitize, carcinogen
nicotinic acid	2	1	0	
niflumic acid	2	1	0	
ninhydrin	0	1	0	
nitric acid	3	0	0	oxidizer
Nitrilotriacetic acid	2	1	1	
nitrobenzene	3	1	0	
nitro blue tetrazolium	2	0	0	
nitro bt	1	0	0	

nitrogen gas	1	0	0	
nitrogen liquid	3	0	0	
nitronium tetrafluoroborate	3	0	1	sensitizer, corrosive
nitrous oxide	1	0	0	oxidizer
n-hydroxysuccinimidobiotin	1	0	0	
n-lauroylsarcosine	3	0	0	irritant
n-methyl-d-aspartic acid	0	1	0	
n-nitrosodimethylamine (dimethylamine)				regulated carcinogen
n,n-diallyltartardiamide	2	0	0	irritant
n,n-dimethylformamide	2	2	0	
n,n-dimethyltrimethylsilylamine		3		corrosive, flammable
n,n-dissorpropylethylamine	?			
n,n-methylenebisacrylamide	2	0	1	
nonane	1	3	1	
nonidet p40	2	1	0	
nonyl acridine orange	2	1	0	
n-pentane	1	4	0	
n-propyl gallate	1	0	0	
nuclear fast red	2	0	0	
n-z-amine a	1	0	0	
n-2-mercaptopropionyl glycine	1	0	0	
octadecane	2	0	0	
okadaic acid	2	0	0	
oleic acid	0	1	0	
o-phenylenediamine	2	1	1	
o-phosphoric acid	2	0	1	
ortho-phosphoric acid	2	0	0	
orange g	1	1	0	
orcein	1	0	0	
orotic acid	1	1	1	
osmium tetroxide	4	0	0	
oxalic acid	3	1	0	

OXALOACETIC ACID ?	1	0	0	
oxolinic acid	1	0	0	
oxygen gas	0	0	0	oxidizer
oxygen liquid	3	0	0	oxidizer
paint stripper	2	4	1	
paint thinner	3	2	0	
palladium	3	0	0	
palmitic acid	1	1	0	irritant
p-aminophenylmercuric acetate	3	1	0	
papaverine	2	0	1	
paraformaldehyde	3	1	0	
pararosaniline	2	0	0	may cause cancer
parlodion	0	3	3	explosive when dry
p-bromophenol	2	0	0	
pbs with nonfat milk	0	0	0	
p-Chloromercuribenzoic acid	3	0	0	
p-coumaric acid	2	0	0	
pectin	1	1	0	
PEG (polyethylene glycol)	0	1	0	
pentaethylene glycol monododecyl ether	0	1	0	
pentafluorobenzyl bromide	3	2	2	corrosive combustible liquid and vapor
pentane	1	4	0	
pentobarbital sodium	2	0	0	reproductive hazard
pentylenetetrazole				carcinogen, radioactive
pepstatin A	1	0	0	
perchloric acid	3	0	3	oxidizer
percoll	0	0	0	
periodic acid	3	0	1	oxidizer
permount solution	2	3	0	
peroxidase	2	0	0	
petroleum ether	1	4	0	
phenanthroline	1	0	0	

phenazine methosulfate	2	0	1	sternutator
phenol	4	2	0	
phenol chloroform	2	1	1	
phenol:chloroform:isoamyl alcohol	3	2	1	
phenol reagent (folin & ciocalteu)	3	0	0	toxic and corrosive
phenol red	2	1	0	
phenol saturated	3	2	1	
phenolphthaleine	0	1	0	
phenosafranin	1	0	0	irritant
phentolamine hcl	1	0	0	
Phenyl arsine oxide	3	1	0	
phenylhydrazine hydrochloride	2	1	1	
phenylmercuric acetate	3	1	0	
phenylmethylsulfonyl fluoride	3	1	3	corrosive; with acid = toxic gas
phosphomolybdic acid	2	0	0	
phosphonoacetic acid	1	1	1	
phosphonic acid	3	0	0	
phosphoric acid	3	0	0	
phosphorous pentoxide	3	0	3	highly toxic, water reactive
phosphotungstic acid	1	0	0	
phthalic acid	2	1	0	
phthalic anhydride	2	1	0	
p-hydroxybenzoic acid	0	1	1	
phytic acid	3	1	0	corrosive, dangerous vapors
picric acid	2	4	4	
picrotoxin	3	1	0	
picrylsulfonic acid solution	3	0	2	
piperazine	3	2	0	corrosive, dangerous vapors, poss. Sensitizer
piperidine	3	3	1	
piperes	1	0	0	
platinum oxide	0	0	1	
Pluronic f-68 surfactant	1	1	0	
PMSF (phenylmethylsulfonyl fluoride)	3	1	3	corrosive; + acid = toxic gas

p-methylaminophenol sulfate	2	1	1	
p-nitroaniline	3	1	2	
p-nitrocatechol sulfate dipotassium	2	0	0	
p-nitrophenol	3	1	2	absorbed through skin
p-nitrophenylphosphate substrate	1	0	0	
podophyllotoxin	2	0	0	
polyaniline	0	0	0	
polybrene				harmful
polycytidylic acid 5 potassium	0	0	0	
polydimethylsiloxane, hydroxy terminated	0	0	0	
polyethylene glycol	0	1	0	
polyethyleneimine	1	1	0	
poly-L-lysine solution	0	0	0	
polymethyl methacrylate	0	1	0	
polyoxyethylene 10 oleyl ether	2	0	0	
polyoxyethylene 20 cetyl ether				?
polyoxyethylenesorbitan monolaurate	0	1	0	
polystyrene	0	1	0	
polyurethane	2	2	1	
polyvinyl alcohol	0	2	0	
polyvinylpyrrolidone	1	0	0	
ponceau S	1	0	0	
potassium				class 1 peroxide former
potassium acetate	1	0	0	
potassium amide				class 1 peroxide former
potassium aluminum sulfate dodecahydrate	1	0	0	
potassium bicarbonate	1	0	0	
potassium bisulfate	3	0	0	corrosive
potassium chloride	1	0	0	
potassium chromate	2	0	0	
potassium cyanide	3	0	0	
potassium dichromate	1	0	1	oxidizer
potassium ferricyanide	3	0	0	

potassium ferrocyanide	3	0	0	
potassium ferrocyanide	3	0	0	
potassium hydrogen carbonate	0	0	0	
potassium hydroxide	3	0	2	
potassium hydroxide pellets	3	0	1	
potassium iodate	2	0	3	oxidizer
potassium iodide	1	0	0	
potassium methyl sulfate	2	0	0	
potassium nitrate	2	0	0	oxidizer
potassium nitrite	2	0	3	oxidizer
potassium oxalate	1	0	0	
potassium permanganate	1	0	0	oxidizer
potassium phosphate dibasic	1	0	0	
potassium phosphate monobasic	1	0	0	
potassium sodium tartrate	1	1	0	
potassium thiocyanate	2	0	0	
p-Nitrophenyl phosphate	0	1	0	
PPO				irritant
press oil	0	1	0	
primuline	2	0	0	toxic and corrosive
pristane	2	0	0	
probenecid	2	0	0	harmful
proline	0	0	0	
pronase	0	0	0	harmful
propane	1	4	0	
propanol	1	3	0	
Propidium Iodide	2	1	0	
propionic acid	3	2	0	
propylene glycol	0	1	0	
propylene oxide	3	4	2	possible carcinogen
protamine sulfate	0	0	0	
proteinase K	2	0	0	
p-toluenesulfonic acid monohydrate	2	1	1	

p-toluene sulfonyl fluoride				corrosive
puromycin readymade	1	0	0	
putrescine	2	0	0	irritant
pyridine	3	3	0	
pyridium chlorochromate	2	1	2	oxidizer
pyrogallol	2	0	0	
pyronin y	1	0	0	
pyruvic acid	3	2	1	corrosive
quercetin	2	0	0	toxic
quinacrine 2 HCL	2	0	1	
quinacrine mustard dihydrochloride	3	0	0	
raffinose	1	0	1	oxidizer
reagent alcohol	1	3	0	
resazurin	1	0	0	
reserpine	2	0	0	
retinoic acid				teratogen
rhamnose monohydrate (L+)	1	0	0	
rhodamine b	2	0	0	
rotenone	4	1	0	
rubidium chloride	1	0	0	
ruthenium red	0	1	0	
ryanodine	0	1	0	
salbutamol free base	1	0	0	
salicin	1	0	0	
saponin	1	1	1	
sarcosine	1	1	1	
sarkosyl	1	0	0	
saturated phenol	3	2	1	
scintiverse	2	3	0	
sds (sodium dodecyl sulfata)	2	3	1	

seakem gtg agarose	0	1	0	
SEB	3	0	0	
sebacic acid diethyl ester	2	0	0	
selenous acid	3	0	?	
semicarbazide HCL	2	0	0	
sephadex	0	0	0	
sigmacote	2	3	0	
silicic acid	1	0	1	
silicotungstic acid hydrate				irritant
silver nitrate	1	0	0	oxidizer
silver I oxide	1	0	1	
silver stain oxidizer concentrate	3	0	0	
silver stain plus kit	0	0	0	
silver sulfate	1	0	0	
slygard curing agent	1	1	0	
sodium acetate	1	1	0	
sodium acetate trihydrate	1	0	0	
sodium acrylate	2	0	1	
sodium amide				class 1 peroxide former
sodium arsenate	3	0	0	regulated carcinogen
sodium arsenate heptahydrate	3	0	0	
sodium arsenic acid	2	0	0	
sodium azide	4	0	2	water reactive
sodium bicarbonate	2	0	0	
sodium bisufite	2	0	0	
sodium borate	1	0	0	
sodium borohydride	3	1	2	water reactive
sodium bromate	1	0	2	oxidizer
sodium butyrate	2	1	0	
sodium cacodylate	2	0	1	
sodium carbonate	3	0	0	
sodium carbonate anhydrous	3	0	0	
sodium chloride	1	0	0	

sodium citrate	0	1	0	
sodium citrate dihydrate	1	0	0	
sodium cyanide	3	0	0	
sodium dichromate	3	0	1	oxidizer
sodium dodecyl sulfate (SDS)	2	3	1	red
sodium fluoride	3	0	0	
sodium formate	1	0	0	
sodium hydrosulfite 78%	3	1	2	water reactive
sodium hydroxide	3	0	1	
sodium hydroxide pellets	3	0	2	
sodium hypochlorite	3	0	0	
sodium hypophosphite	1	0	2	
sodium iodate	1	0	1	oxidizer
sodium iodide	1	0	0	
sodium lauryl sulfate	0	0	0	
sodium m-arsenite	3	0	1	
sodium metabisulfite	2	0	0	
sodium meta-periodate	1	1	0	
sodium molybdate	2	0	0	
sodium nitrate	2	1	1	oxidizer
sodium nitroferricyanide	3	0	1	
sodium orthovanadate	2	0	1	
sodium oxalate	1	1	0	
sodium perchlorate monohydrate	2	0	2	oxidizer
sodium perborate	1	1	0	oxidizer
sodium periodate	2	0	0	oxidizer
sodium perchlorate monohydrate	2	0	2	oxidizer
sodium persulfate	1	0	1	oxidizer
sodium phosphate	1	0	0	
sodium phosphate monobasic	1	0	0	
sodium propionic acid	1	0	1	
sodium pyrophosphate	1	0	0	
sodium pyruvate	1	1	1	

sodium selenite	3	0	1	
sodium sulfite	2	0	0	
sodium tetraphenyl boron	2	0	0	
sodium thiocyanate	2	0	0	
sodium thiosulfate	2	0	0	
sodium vanadate	2	0	0	
sodium vinyl sulfonate	1	1	0	
spermidine	3	1	1	
spermine	3	0	1	
spinkote	2	1	0	carcinogen
spray paint	2	4	0	
SSC	1	4	0	or 2 0 0 ?
stain (in painting)	3	2	1	corrosive
stannous chloride	2	0	2	
staphylococcal enterotoxin b (SEB)	4	0	0	
staurosporine	1	0	0	
stearic acid	0	1	0	
strontium nitrate	1	0	1	
strontium chloride	1	0	0	
styrene				class 3 peroxide former
succinic acid	2	1	0	
sulfanilamide	2	1	0	
sulfanilic acid	2	1	1	
sulfuric acid	3	0	2	oxidizer, water reactive
tannic acid	1	1	1	
tartaric acid	0	1	0	
tartrazine	1	1	0	
taurine	2	0	0	
taurocholic acid sodium	0	0	0	
taxol	1	3	0	
t-butyl hydroperoxide	2	2	3	corrosive, explosive confined heat
TCEP	4	0	0	corrosive

TEMED	2	3	0	
tergitol npx				irritant
tert-butyl methyl ether	2	3	0	possible carcinogen
tertiary butanol	1	3	0	
TES (2-(tris(hydroxymethyl)methylamino)ethane-1-sulphonic acid)	1	1	1	
tetrabutylammonium acetate	2	0	0	
tetrabutylammonium fluoride	3	1	1	corrosive
tetrabutylammonium fluoride in THF	2	4	1	may form peroxides
tetrabutylammonium tetrafluoroborate	1	1	1	
Tetraethylene glycol monoethyl ether	1	1	0	
tetrafluoroboric acid 50%	3	0	0	
tetrafluoroethylene				class 3 peroxide former
tetrafluoromethane	1	0	0	
tetrahydrofuran	2	3	1	
tetrahydronaphthalene				class 2 peroxide former
tetramethylammonium chloride	3	0	0	
tetraethylammonium hydroxide	3	0	1	corrosive
tetramethylammonium hydroxide	3	3	0	corrosive
tetramethylbenzidine	2	0	1	
tetranitromethane	4	1	3	oxidizer, carcinogen
tetrazole	2	3	0	
tetrodotoxin	4	0	0	
thiabendazole	1	1	1	
thiamine hydrochloride	1	1	1	
thymidine	1	1	1	
thimerosal	2	0	0	toxic
thioglycolate medium	1	0	0	
thionin	1	0	0	
thionyl chloride	4	0	2	water reactive
thiophosgene	2	1	2	
thymol	2	1	0	

tinuvin	2	1	0	
titanium tetrachloride	3	0	2	
toluene	2	3	0	
toluenesulfonic acid	4	1	1	corrosive, poss. sensitizer&carcinogen
tribromoethanol				see 2,2,2-tribromoethanol
trichloroacetic acid	3	0	0	corrosive
trichloro-trifluoroethane	1	0	1	
tricine	1	0	0	
triethanolamine	2	1	1	
triethylamine	3	3	0	
triethylene glycol	1	1	1	
TFA (trifluoroacetic acid)	3	0	1	
trifluoromethanesulfonic	3	0	2	water reactive
trifluoroperazine	0	1	1	
trimethylamine	2	4	0	
trimethylchlorosilane	3	3	2	flammable, corrosive
trioxsalen				corrosive, photosensitizer, possible carcinogen
tricarballic acid	0	1	0	
triphenylphosphine	0	1	0	
tris	1	0	1	
tris hydroxymethyl aminomethane	2	1	0	
triton X-100	2	0	0	
trizma hydrochloride	2	0	1	
trizol	3	1	0	corrosive
trolox	2	1	0	
tromethamine	2	0	0	
trypan blue	1	0	0	may cause cancer
trypsin	2	1	0	
tryptone	0	0	0	
tryptone peptone	0	0	0	
tryptophan	2	0	0	
tunicamycin	2	1	0	
tungstic acid	0	0	0	

tween 20	0	0	0	
uracil	1	1	0	
uranyl nitrate	2	0	0	oxidizer
uranyl nitrate solution	3	0	0	
urea	1	0	0	
vanadium V oxide	2	0	0	
vanadyl sulfate	2	0	0	
vinyl acetate	2	3	2	class 3 peroxide former
vinyl acetylene				class 3 peroxide former
vinyl chloride monomer				regulated carcinogen
vinyl cyclohexene dioxide	4	1	2	
vinyl ether				class 2 peroxide former
vinylidene chloride				class 1 or 3 peroxide former
vinyl pyridine				class 3 peroxide former
vinyl sulfonate (see sodium vinyl sulfonate)				
vionex soap	0	0	0	
Wescodyne	3	0	0	corrosive
xanthine	0	1	0	
x-gal	2	2	1	
xylazine hcl	2	1	0	
xylenes	2	3	0	
xylene cyanol	1	0	0	
zeocin	2	0	0	
zinc acetate	1	0	0	
zinc chloride	2	0	0	
zinc metal	0	0	0	
zinc sulfate	2	0	0	