

Chemical Hygiene Plan Appendix H **Classes of Carcinogenic Compounds**

(* select carcinogens)

Alkylating agents: *a*-halo ethers

**bis(chloromethyl)ether*

**methyl chloromethyl ether*

Alkylating agents: sulfonates

**1,4-butanediol dimethanesulfonate*

diethyl sulfate

dimethyl sulfate

ethyl methanesulfonate

methyl methanesulfonate

methyl trifluoromethanesulfonate

1,3-propanesultone

Alkylating agents: epoxides

**ethylene oxide*

diepoxybutane

epichlorohydrin

propylene oxide

styrene oxide

Alkylating agents: aziridines

**ethylenimine*

2-methylaziridine

Alkylating agents: diazo, azo, and azoxy compounds

4-dimethylaminoazobenzene

Alkylating agents: electrophilic alkenes and alkynes

**acrylonitrile*

acrolein

ethyl acrylate

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Acylating agents

* *β -propiolactone*
 β -butyrolactone
dimethylcarbamoyl chloride

Organohalogen compounds

**1,2-dibromo-3-chloropropane*
**mustard gas (bis(2-chloroethyl)sulfide)*
**vinyl chloride*
carbon tetrachloride
chloroform
3-chloro-2-methylpropene
1,2-dibromoethane
1,4-dichlorobenzene
1,2-dichloroethane
2,2-dichloroethane
1,3-dichloropropene
hexachlorobenzene
methyl iodide
tetrachloroethylene
trichloroethylene
2,4,6-trichlorophenol

Hydrazines

hydrazine (and hydrazine salts)
1,2-diethylhydrazine
1,1-dimethylhydrazine
1,2-dimethylhydrazine

N-nitroso compounds

**N-nitrosodimethylamine*
N-nitroso-N-alkylureas

Aromatic amines

**4-aminobiphenyl*
**benzidine (p,p'-diaminobiphenyl)*
* *α -naphthylamine*
* *β -naphthylamine*

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aniline
o-anisidine (2-methoxyaniline)
2,4-diaminotoluene
o-toluidine

Aromatic hydrocarbons

**benzene*
benz[a]anthracene
benzo[a]pyrene

Natural products (including antitumor drugs)

adriamycin
aflatoxins
bleomycin
cisplatin
progesterone
reserpine
safrole

Miscellaneous organic compounds

**formaldehyde (gas)*
acetaldehyde
1,4-dioxane
ethyl carbamate (urethane)
hexamethylphosphoramide
2-nitropropane
styrene
thiourea
thioacetamide

Miscellaneous inorganic compounds

**arsenic and certain arsenic compounds*
**chromium and certain chromium compounds*
**thorium dioxide*
beryllium and certain beryllium compounds
cadmium and certain cadmium compounds
lead and certain lead compounds
nickel and certain nickel compounds
selenium sulfide