

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

**b*-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)

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**a-naphthylamine*

**b-naphthylamine*

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

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cadmium and certain cadmium compounds

lead and certain lead compounds

mickel and certain mickel compounds

selenium sulfide