

TABLE 1
CHEMICALS OR INDUSTRIAL PROCESSES
ASSOCIATED WITH CANCER INDUCTION IN MAN

(Derived from ref. 8, with addition of data on worker exposure from ref. 19;
see also footnotes to Table 3.)

Chemical or Industrial Process	Main Type of Exposure ^a	Target Organs in Man	Main Route of Exposure ^b	Estimated No. of Workers Exposed in U.S.
Aflatoxins	Environmental, occupational ^c	Liver	Oral, inhalation ^c	_____ d
4-Aminobiphenyl	Occupational	Bladder	Inhalation, skin, oral	100
Arsenic compounds ✓	Occupational, medicinal, environmental	Skin, lung, liver ^c	Inhalation, skin, oral	1,500,000 ^g
Asbestos ✓	Occupational	Lung, pleural cavity, g.i. tract	Inhalation, oral	1,600,000
Auramine (manufacture)	Occupational	Bladder	Inhalation, skin, oral	_____ d
Benzene ✓	Occupational	Hemato-poietic system	Inhalation, skin	1,900,000
Benzidine	Occupational	Bladder	Inhalation, skin, oral	2,200
Bis(chloromethyl) ether	Occupational	Lung	Inhalation	_____ d
Cadmium using industries (? cadmium oxide)	Occupational	Prostrate, lung	Inhalation, oral	1,400,000

Chemical or Industrial Process	Main Type of Exposure ^a	Target Organs in Man	Main Route of Exposure ^b	Estimated No. of Workers Exposed in U.S.
Chloramphenicol	Medicinal	Hemato-poietic system	Oral, injection	_____ d
Chloromethyl methyl ether	Occupational	Lung	Inhalation	_____ d
Chromium (chromate producing industries)	Occupational	Lung, nasal cavities ^c	Inhalation	1,500,000 (chromium oxides)
Cyclophosphamide	Medicinal	Bladder	Oral, injection	_____ d
Diethylstilbestrol	Medicinal	Uterus, vagina	Oral	_____ d
Haematite mining	Occupational	Lung	Inhalation	19,000
Isopropyl oil	Occupational	Nasal cavity, larynx	Inhalation	_____ d
Malphalan	Medicinal	Hemato-poietic system	Oral, injection	_____ d
Mustard gas	Occupational	Lung, larynx	Inhalation	_____ d
2-Naphthylamine	Occupational	Bladder	Inhalation, skin, oral	1,000
Nickel (oxides)	Occupational	Nasal cavity, lung	Inhalation	1,400,000 ^e
Chl rnapha-zine	Medicinal	Bladder	Oral	_____ d
Oxymetholone	Medicinal	Liver	Oral	_____ d
Phenacetin	Medicinal	Kidney	Oral	_____ d

Chemical or Industrial Process	Main Type of Exposure ^a	Target Organs in Man	Main Route of Exposure ^b	Estimated No. of Workers Exposed in U.S.
Phenytoin	Medicinal	Lymphoreticular tissues	Oral, injection	_____ ^d
Soot, tars and oils	Occupational, environmental	Lung, skin, scrotum	Inhalation, skin	_____ ^f
Vinyl chloride	Occupational	Liver, ^c brain, ^c lung ^c	Inhalation, skin	2,200,000

^a The main types of exposure mentioned are those by which the association has been demonstrated.

^b The main routes of exposure given may not be the only ones by which such effects could occur.

^c Denotes indicative evidence

^d Not recorded in the survey: exposure very small in all cases except aflatoxins.

^e No. of workers exposed to nickel oxide: only about 230 workers exposed to nickel carbonyl

^f Exposure very large but not characterized numerically