

*THE SECOND SCHEDULE

(See section 41 F)

PERMISSIBLE LEVELS OF CERTAIN CHEMICAL SUBSTANCES IN WORK ENVIRONMENT

Substance	Permissible limits of exposure			
	Time-weighted average concentration (8 hrs)		Short-term exposure limit (15 min)	
	ppm	Mg/m ³	ppm	Mg/m ³
Acetaldehyde	100	180	150	270
Acetic acid.	10	25	15	37
Acetone.	750	1780	1000	2375
Acrelein.	0.1	0.25	0.3	0.8
Acrylonitrile—skin	2	4.5	..	..
Aldrin-skin. . . . .	..	0.25	..	0.75
Allychloride.	1	3	2	6
Ammonia.	0.25	18	35	27
Aniline-Skin.	2	10	5	20
Anisidine (o., Pisoners)—skin.	0.1	0.5	..	..
Arsenic and compounds (as As) . . . . .	..	0.2	..	..
Benzene.	10	20	25	75
Beryllium . . . . .	..	0.20	..	..
Boron trifluoride.	0.1	0.3	..	..
Bromine.	0.1	0.7	0.3	2
Butane.	800	1900	..	..
2-Butanone (Methyl-ethyl Ketone-MEK)	200	590	300	885
n-Butyl acetate.	150	710	200	950
n-Butyle alcohol-Skin.	C50	C150	..	..
sec/tert. Butyl acetate.	200	950	250	1190
Butyl Mercaptan.	0.5	1.5	..	..
Cadmium-Dusts and salts (as Cd) . . . . .	..	0.05	..	0.2
Calcium oxide. . . . .	..	2	..	..
Carbaryl (Sevin) . . . . .	..	5	..	10
Carbofuran (Furadan) . . . . .	..	0.1	..	..
Carbon disulphide—Skin.	10	30	..	..

* Ins. by Act 20 of 1987, s. 45 (w.e.f. 1-6-1988).

	ppm	Mg/m ³	ppm	Mg/m ³
Carbon monoxide)	50	40	400	440
Carbon to trachloride—skin	m5	30	20	125
Carbonyl Chloride (Phosgene).	0.1	0.4	..	..
Chlorobenzene (Monochloro-benzene).	75	350	..	..
Chlordane-skin. . . . .	..	0.5	..	..
Chlorine	1	3	3	9
Chloroform	10	50	50	225
Bis-Chloromethyl ether	0.001	0.005	..	..
Chromic acid and chromates (as Cr) . . . . .	..	0.05	..	..
Chromous Salts (as Cr). . . . .	..	0.05	..	..
Copper fume. . . . .	..	0.2	..	..
Cotton dust, raw . . . . .	..	0.2	..	0.6
Crosol, all isomers—skin	5	22	..	..
Cyanides (as CN)—skin . . . . .	..	5	..	..
Cyanogen	10	20	..	..
DDT (Dichlorodiphenyl Trichloroethane) . . . . .	..	1	..	3
demeton-skin	0.01	0.1	0.03	0.3
Diazinon-skin . . . . .	..	0.1	..	0.3
Dibutyl Phthalate . . . . .	..	5	..	10
Dichlorvos (DDVP)—skin	0.1	1	0.3	3
Dieldrin—skin . . . . .	..	0.25	..	0.75
Dinitrobenzene (all isomers)—skin	0.15	1	0.5	3
Dinitrotolune-skin . . . . .	..	1.5	..	5
Diphenyl	0.2	1.5	0.6	4
Endosulfan (Thiodan)—skin . . . . .	..	0.1	..	0.4
Endrin—skin . . . . .	..	0.1	..	0.3
Ethyl acetate	400	1400	..	..
Ethyl alcohol	1000	1900	..	..
Ethylamine	10	18	..	..
Fluorides (as F) . . . . .	..	2.5	..	..
Fluorine	1	2	2	4
Formic Acid	5	9	..	..
Hydrazine—skin	0.1	0.1	..	..
Hydrogen Chloride	C5	C7	..	..

	ppm	Mg/m ³	ppm	Mg/m ³
Hydrogen Cyanide—skin.	C10	C10	..	..
Hydrogen fluoride (as F)	3	2.5	6	5
Hydrogen Peroxide.	1	1.5	2	3
Hydrogen Sulphide.	10	14	15	21
Iodine.	C0.1	C1	..	..
Iron-Oxide Fume (Fe ₂ O ₃) (as Fe) . . . . .	..	5	..	10
Isoamyl acetate.	100	525	125	665
Isoamyl alcohol.	100	360	125	450
Isobutyl alcohol.	50	150	75	225
Lead, inorg, dusts and fumes (as Pb) . . . . .	..	0.15	..	0.45
Lindane-skin. . . . .	..	0.5	..	1.5
Malathion-skin. . . . .	..	10	..	..
Manganese (as Mn) dust and compounds. . . . .	..	C05	..	..
Fume . . . . .	..	1	..	0.3
Mercury (as Hg)—skin Alkyl compounds. . . . .	..	0.01	..	0.03
All forms except alkyl vapour. . . . .	..	0.05	..	..
Aryl and inorganic compounds. . . . .	..	0.1	..	..
Methyl alcohol (methanol)—skin.	200	260	250	310
Methyl cellosolve—skin (2 methoxy ethanol)	5	16	..	..
Methyl isobutyl ketone—skin.	50	205	75	300
Methyl Isocyanate.	0.02	0.05	..	..
Napthalene.	10	50	15	75
Nickel carbonyl (as Ni)	0.05	0.35	..	..
Nitric acid.	2	5	4	10
Nitric oxide.	25	30	35	45
Nitrobenzene—skin.	1	5	2	10
Nitrogen dioxide.	3	6	5	10
Oil mist, minerals. . . . .	..	5	..	10
Oxone.	0.1	0.2	0.3	0.6
Parathion—skin. . . . .	..	0.1	..	0.3
Phenol—skin.	5	19	10	38
Phorate (Thimet)—skin. . . . .	..	0.05	..	0.2
Phosgene (Carbonyl Chloride)	0.1	0.4	..	..
Phosphine.	0.3	0.4	1	1

	ppm	Mg/m ³	ppm	Mg/m ³
Phosphorus (yellow) . . . . .	..	0.1	..	0.3
Phosphorus pentachloride.	0.1	1	..	..
Phosphorus trichloride.	0.2	1.5	0.5	3
Picric acid—skin. . . . .	..	0.1	..	0.3
Pyridine.	5	15	10	30
Silane (silicon tetrahydride)	5	7	..	..
Sodium hydroxide. . . . .	..	C2	..	..
Styrene, monomer (phanylethylene)	50	215	100	425
Sulphur dioxide.	2	5	5	10
Sulphur hexafluoride.	1000	6000	1250	7500
Sulphuric acid. . . . .	..	1	..	..
Toluene (Toluol)	100	375	150	560
0-Toluidinz—skin.	2	9	..	..
Tributyl phosphate.	0.2	2.5	0.4	5
Trichloroethylene.	50	270	200	1080
Uranium, natural (as U) . . . . .	..	0.2	..	0.5
Vinyl chloride	5	10	..	..
Welding fumes. . . . .	..	5	..	..
Xylene (o-, m-, P-isomers)	100	435	150	655
Zirconium compounds (as Zr) . . . . .	..	5	..	10

C denotes ceiling limit

*Not more than 4 times a day with at least 60 min. interval between successive exposures.

Substance	Permissible (8 hours)	time- weighted average	concentration
(i) Silica			
(a) Crystalline			
(b) Quartz			
(1) In term of dusts count	10600		mppcm
	% Quartz+10		

Substance	Permissible (8 hours) time- weighted average	concentration
(2) In terms of respirable dust	$\frac{10}{\% \text{ respirable quartz}+2}$	mg/m ³
(3) In terms of total dust	$\frac{10}{\% \text{ Quartz}+3}$	mg/m ³
(ii) Cristobalite	Half the limits given against quartz.	
(iii) Tridymite	Half the limits given against quartz.	
(iv) Silca, fused	Same limits as for quartz.	
(v) (a) Tripoli	Same limit as in formula in item 2 given against quartz.	
(b) Amorphous	705 mppcm.]	