

ELEMENTS OF INDUSTRIAL TOXICOLOGY

TABLE 40-B. THRESHOLD LIMIT VALUES FOR 1983 (Continued)
MINERAL DUSTS, TENTATIVE VALUES, AND APPENDIX A

Mineral Dusts			Tentative Values		
Substance	mppcf†		Substance	ppm°	mg/cu m**
SILICA					
Crystalline			Demeton (R) (Systox)	—	0.1
Quartz, Threshold Limit calculated from the formula	250		Endrin (1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octa-hydro-1,4-endo-5,8-dimethanonaphthalene—Skin	—	0.1
Crystalline " " "	%SiO ₂ + 5		Epichlorohydrin	5	19
Amorphous, including natural diatomaceous earth	20		Ethanolamine	3	6
SILICATES (less than 1% crystalline silica)					
Asbestos	5		Graphite	—	15 mppcf
Mica	20		Hafnium	—	0.5
Soapstone	20		Heptachlor (1,4,5,6,7,8,8a-heptachloro-3a,4,7,7a-tetrahydro-4,7-methanonendene)	—	0.5
Talc	20		Methylamine	25	31
Portland Cement	50		Methyl Methacrylate	100	410
Miscellaneous (less than 1% crystalline silica)					
Conversion factors	50		C Methylene bis phenylisocyanate	0.02	0.2
mppcf X 35.3 = million particles per cubic meter			Mineral Wool (Fiberglas)	—	2
= particles per c. c.			Naphthalene	10	50
			Oil (mineral)	—	5
			β-Propiolactone	—	A-5
			Silver	—	0.05
			Tantalum	—	5
			1,1,1,2-Tetrachloro-2,2-difluoroethane	1000	8340
			1,1,2,2-Tetrachloro-1,2-difluoroethane	500	4170
			Tetraethyl lead—Skin	—	0.075
			Tin	—	—
			(inorganic compounds)	—	2
			(organic compounds as Sn—Skin	—	0.1

Note: The word "Skin" following a substance indicates that the substance can penetrate the skin to contribute to the exposure and TLV should be reduced accordingly.

*Parts of vapor or gas per million parts of air by volume at 25 C and 760 mm Hg pressure.

**Approximate mg of particulate per cu m of air

†Millions of particles per cu ft of air, based on impinger samples counted by light-field technique.

‡The percentage of crystalline silica in the formula is the amount determined from airborne samples, except in those instances in which other methods have been shown to be applicable.

A numbers, see specific number in Appendix A

C substances, see Appendix C

Appendix A

A-1 Benzidine Because of high incidence of bladder tumors in man, any exposure, including skin, is extremely hazardous.

A-2 β-Naphthylamine Because of the extremely high incidence of bladder tumors in workers handling this compound, and the inability to control exposures, β-naphthylamine has been prohibited from manufacture, use and other activities that involve human contact by the State of Pennsylvania.

A-3 N-Nitrosodimethylamine Because of extremely high toxicity and presumed carcinogenic potential of this compound,

contact by any route should not be permitted.

A-4 Teflon® decomposition products At least one identified component of Teflon decomposition products is extremely toxic, but in the absence of more complete toxicity information and suitable analytic methods, a definite threshold limit value is not recommended at this time, but air concentrations should be minimal.

A-5 β-Propiolactone Because of high acute toxicity and demonstrated skin tumor production in animals, contact by any route should be avoided.