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April 6, 1970

File
APR 10 1970

Mr. Richard Henderson
Manager, Environmental
Hygiene Services
Olin Research Center
275 Winchester Avenue
New Haven, Connecticut 06504

Dear Dick:

The TLV Committee met last week with V. K. Rowe present and final decision for the TLV for VINYL CHLORIDE was 200 ppm. This, as you will note, was the essential recommendation of Mutchler at the Gordon Conference in 1968. Apparently, Dow hasn't seen any new evidence to alter this tentative recommendation.

Yours sincerely,

H. E. Stokinger
Herbert E. Stokinger, Ph.D.
Chairman
Threshold Limits Committee

H. STOKINGER:em

Threshold Limit Values
of Airborne Contaminants

Adopted By ACGIH
For 1969

AND INTENDED CHANGES



Substance	ppm ^{a)}	mg/M ³ b)
Tellurium hexafluoride	0.02	0.2
TEPP - Skin	-	0.05
C Terphenyls	1	9
1, 1, 1, 2-Tetrachloro-2, 2-di- fluoroethane	500	4,170
1, 1, 2, 2-Tetrachloro-1, 2-di- fluoroethane	500	4,170
1, 1, 2, 2-Tetrachloroethane-Skin	5	35
Tetrachloroethylene, see Per- chloroethylene		
Tetrachloromethane, see Carbon tetrachloride		
Tetrachloronaphthalene - Skin	-	2
** Tetraethyl lead (as Pb) - Skin	-	0.075
Tetrahydrofuran	200	590
** Tetramethyl lead (TML) (as Pb) - Skin	-	0.075
Tetramethyl succinonitrile - Skin	0.5	3
Tetranitromethane	1	8
Tetryl (2, 4, 6-trinitrophenyl- methylnitramine) - Skin	-	1.5
Thallium (soluble compounds) - Skin	-	0.1
Thiobis	-	5
Tin (inorganic cmpds, except SnH ₄ and SnO ₂)	-	2
Tin (organic cmpds)	-	0.1
Titanium dioxide	-	15
Toluene (toluol)	200	750
C Toluene-2, 4-diisocyanate	0.02	0.14
o-Toluidine - Skin	5	22
Toxaphene, see Chlorinated cam- phene		
Tributyl phosphate	-	5
1, 1, 1-Trichloroethane, see Methyl chloroform		
1, 1, 2-Trichloroethane - Skin	10	45
Trichloroethylene	100	535
Trichloromethane, see Chloro- form		
Trichloronaphthalene - Skin	-	5
1, 2, 3-Trichloropropane	50	300
1, 1, 2-Trichloro 1, 2, 2-tri- fluoroethane	1,000	7,600
Trichethylamine	25	100
Trifluoromonomobromomethane	1,000	6,100
2, 4, 6-Trinitrophenol see Picric acid		
2, 4, 6-Trinitrophenylmethylni- tramine, see Tetryl		
Trinitrotoluene - Skin	-	1.5
Triorthocresyl phosphate	-	0.1

** See Notice of Intended Changes

Substance	ppm ^{a)}	mg/M ³ b)
Triphenyl phosphate	-	3
* Tungsten & Compounds, as W		
Soluble	-	1
Insoluble	-	5
Turpentine	100	560
* Uranium (natural) sol. & insol. compounds as U	-	0.2
C Vanadium (V ₂ O ₅ dust)	-	0.5
(V ₂ O ₅ fume)	-	0.1
Vinyl benzene, see Styrene		
C Vinyl chloride	500	1,300
Vinylcyanide, see Acrylonitrile		
Vinyl toluene	100	480
Warfarin	-	0.1
Xylene (xylol)	100	435
Xylidine - Skin	5	25
Yttrium	-	1
Zinc chloride fume	-	1
Zinc oxide fume	-	5
Zirconium compounds (as Zr)	-	5

Radioactivity For permissible concentrations of radioisotopes in air, see U.S. Department of Commerce, National Bureau of Standards, Handbook 69, "Maximum Permissible Body Burdens and Maximum Permissible Concentrations of Radionuclides in Air and in Water for Occupational Exposure," June 5, 1959. Also, see U.S. Department of Commerce National Bureau of Standards, Handbook 59, "Permissible Dose from External Sources of Ionizing Radiation," September 24, 1954, and addendum of April 15, 1958.

* 1969 Addition

Threshold Limit Values
of Airborne Contaminants
AND INTENDED CHANGES

Adopted By ACGIH
For 1970



Substance	ppm ^{a)}	mg/M ^{3 b)}
Silver, metal and soluble compounds .	--	0.01
Sodium fluoroacetate (1080)-Skin	--	0.05
Sodium hydroxide	--	.2
Stibine	0.1	0.5
Starch	--	D
* Stoddard solvent	200	1,150
Strychnine	--	0.15
**C Styrene monomer (phenylethylene)	100	420
Sucrose	--	D
Sulfur dioxide	5	13
Sulfur hexafluoride	1,000	6,000
Sulfuric acid	--	1
Sulfur monochloride	1	6
Sulfur pentafluoride	0.025	0.25
Sulfuryl fluoride	5	20
Systox, see Demeton ®	--	--
2, 4, 5 T	--	10
Tantalum	--	5
TEDP-Skin	--	0.2
Teflon decomposition products	--	A ²
Tellurium	--	0.1
Tellurium hexafluoride	0.02	0.2
TEPP-Skin	--	0.05
C Terphenyls	1	9
1, 1, 1, 2-Tetrachloro-2, 2-di- fluoroethane	500	4,170
1, 1, 2, 2-Tetrachloro-1, 2-di- fluoroethane	500	4,170
1, 1, 2, 2-Tetrachloroethane-Skin	5	35
Tetrachloroethylene, see Per- chloroethylene	--	--
Tetrachloromethane, see Carbon tetrachloride	--	--
Tetrachloronaphthalene-Skin	--	2
Tetraethyl lead (as Pb)-Skin	--	0.100 i)
Tetrahydrofuran	200	590
Tetramethyl lead (as Pb)-Skin	--	0.150 i)
Tetramethyl succinonitrile-Skin	0.5	3
Tetranitromethane	1	8
Tetryl (2, 4, 6-trinitrophenyl- methylnitramine)-Skin	--	1.5
Thallium (soluble compounds)-Skin as Tl	--	0.1
Thiram	--	5
Tin (inorganic cmpds, except SnH ₄ and SnO ₂)	--	2
Tin (organic cmpds)	--	0.1
Tin oxide	--	D
Titanium dioxide	--	D
Toluene (toluol)	200	750
C Toluene-2, 4-diisocyanate	0.02	0.14
o-Toluidine-Skin	5	22
Toxaphene, see Chlorinated camphene	--	--
Tributyl phosphate	--	5
1, 1, 1-Trichloroethane, see Methyl chloroform	--	--
1, 1, 2-Trichloroethane-Skin	10	45

i) For control of general room air, biologic monitoring is essential for personnel control.

* 1970 Addition

** See Notice of Intended Changes

Substance
Trichloroethylene
Trichloromethane, see Chloroform
Trichloronaphthalene-Skin
1, 2, 3-Trichloropropane
1, 1, 2-Trichloro 1, 2, 2-tri- fluoroethane
Triethylamine
Trifluoromonomobromomethane
* Trimethyl benzene
2, 4, 6-Trinitrophenol, see Picric
2, 4, 6-Trinitrophenylmethylnitrat see Tetryl
Trinitrotoluene-Skin
Triorthocresyl phosphate
Triphenyl phosphate
Tungsten & compounds, as W
Soluble
Insoluble
Turpentine
Uranium (natural) sol. & insol. compounds as U
C Vanadium (V ₂ O ₅ dust)
(V ₂ O ₅ fume)
Vinyl benzene, see Styrene
**C Vinyl chloride
Vinylcyanide, see Acrylonitrile
Vinyl toluene
Warfarin
Xylene (xylol)
Xylidine-Skin
Yttrium
Zinc chloride fume
Zinc oxide fume
Zirconium compounds (as Zr)

Radioactivity: For permissible cc in air, see U.S. Department of Standards, Handbook 69, "Maximum and Maximum Permissible Conce Air and in Water for Occupational see U.S. Department of Commerce Handbook 59, "Permissible Dose from Radiation," September 24, 1954, an

* 1970 Addition

** See Notice of Intended Changes

	ppm ^{a)}	mg/M ³ b)
compounds	--	0.01
0)-Skin	--	0.05
	--	2
	0.1	0.5
	--	D
	200	1,150
	--	0.15
ethylene)	100	420
	--	D
	5	13
	1,000	6,000
	--	1
	1	6
	0.025	0.25
	5	20
	--	--
	--	10
	--	5
	--	0.2
ducts	--	A ²
	--	0.1
	0.02	0.2
	--	0.05
	1	9
2-di-	500	4,170
2-di-	500	4,170
ne-Skin	5	35
er-	--	--
arbon	--	--
	--	2
	--	0.100 j)
	200	590
in	--	0.150 j)
Skin	0.5	3
	1	8
yl-	--	--
	--	1.5
s)-Skin as Tl	--	0.1
	--	5
t SnH ₄	--	2
	--	0.1
	--	D
	--	D
	200	750
	0.02	0.14
	5	22
camphene	--	--
	--	5
Methyl	--	--
	--	--
	10	45

ologic monitoring is essential for personnel

Substance	ppm ^{a)}	mg/M ³ b)
Trichloroethylene	100	535
Trichloromethane, see Chloroform	--	--
Trichloronaphthalene-Skin	--	5
1, 2, 3-Trichloropropane	50	300
1, 1, 2-Trichloro 1, 2, 2-tri- fluoroethane	1,000	7,600
Triethylamine	25	100
Trifluoromonobromomethane	1,000	6,100
* Trimethyl benzene	25	120
2, 4, 6-Trinitrophenol, see Picric acid	--	--
2, 4, 6-Trinitrophenylmethylnitramine, see Tetryl	--	--
Trinitrotoluene-Skin	--	1.5
Triorthocresyl phosphate	--	0.1
Triphenyl phosphate	--	3
Tungsten & compounds, as W		
Soluble	--	1
Insoluble	--	5
Turpentine	100	560
Uranium (natural) sol. & insol. compounds as U	--	0.2
C Vanadium (V ₂ O ₅ dust)	--	0.5
(V ₂ O ₅ fume)	--	0.1
Vinyl benzene, see Styrene	--	--
**C Vinyl chloride	500	1,300
Vinylcyanide, see Acrylonitrile	--	--
Vinyl toluene	100	480
Warfarin	--	0.1
Xylene (xylol)	100	435
Xylidine-Skin	5	25
Yttrium	--	1
Zinc chloride fume	--	1
Zinc oxide fume	--	5
Zirconium compounds (as Zr)	--	5

Radioactivity: For permissible concentrations of radioisotopes in air, see U.S. Department of Commerce, National Bureau of Standards, Handbook 69, "Maximum Permissible Body Burdens and Maximum Permissible Concentrations of Radionuclides in Air and in Water for Occupational Exposure," June 5, 1959. Also, see U.S. Department of Commerce National Bureau of Standards, Handbook 59, "Permissible Dose from External Sources of Ionizing Radiation," September 24, 1954, and addendum of April 15, 1958.

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