

## 2004 Review of Occupational Exposure Limits in Ontario

Current Ontario Listing				Proposed Ontario Listing				Change
Substance	OEL			Substance	OEL			
	TWAEV <sup>1</sup>	STEV <sup>2</sup>	CEV <sup>3</sup>		TWAEV	STEV	CEV	
Acetonitrile [75-05-8] - Skin	40 ppm (67 mg/m <sup>3</sup> )	60 ppm (100 mg/m <sup>3</sup> )		Acetonitrile [75-05-8] - Skin	20 ppm			Exposure limit reduced, STEV eliminated MW 120.15
Acrylonitrile [107-13-1] (Designated Substance)	2 ppm (4.3 mg/m <sup>3</sup> )		10 (21.7 mg/m <sup>3</sup> )	Acrylonitrile [107-13-1] - Skin (Designated Substance)	2 ppm (4.3 mg/m <sup>3</sup> )			Addition of skin irritant notation, elimination of CEV MW 53.05
Allyl propyl disulfide [2179-59-1]	2 ppm (12 mg/m <sup>3</sup> )	3 ppm (18 mg/m <sup>3</sup> )		Allyl propyl disulfide [279-59-1]	0.5 ppm			Exposure limit reduced, STEV eliminated MW 148.16
tert-Amyl methyl ether [994-05-8]	250 ppm (1,045 mg/m <sup>3</sup> )	310 ppm (1,295 mg/m <sup>3</sup> )		tert-Amyl methyl ether (TAME) [994-05-8]	20 ppm			Acronym added, exposure limit reduced, STEV eliminated MW 102.2
Asphalt fumes [8052-42-4]	5 mg/m <sup>3</sup>			Asphalt (Bitumen) fume [8052-42-4], as benzene-soluble aerosol	0.5 mg/m <sup>3</sup> (inhalable)			Nomenclature, allowable exposure based on the benzene-soluble aerosol inhalable fraction
Azinphos-methyl [86-50-0] - Skin	0.2 mg/m <sup>3</sup>			Azinphos-methyl [86-50-0] – Skin	0.2 mg/m <sup>3</sup> (inhalable, vapour and aerosol)			Exposure limit developed for vapour and aerosol as an inhalable fraction MW 317.34
Bis (2-(dimethylaminoethyl))ether [3033-62-3]	5 ppm (33 mg/m <sup>3</sup> )			Bis (2-(diethylaminoethyl))ether (DMAEE) [3033-62-3] - Skin	0.05 ppm	0.15 ppm		Acronym added, exposure limit reduced, addition of skin notation, addition of STEVMW 160.26

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2,6-Bis (1,1-dimethylethyl)-4-methylphenol [128-37-0]	10 mg/m <sup>3</sup>			2,6-Bis (1,1-dimethylethyl)-4-methylphenol [128-37-0]  also known as Butylated hydroxytoluene (BHT)	2 mg/m <sup>3</sup>  (inhalable, vapour and aerosol)			Nomenclature, allowable exposure limit developed for vapour and aerosol as an inhalable fraction MW 220.34
Butane [106—97-8]	800 ppm (1,900 mg/m <sup>3</sup> )			Butane, all isomers [106—97-8]	1,000 ppm			Exposure limit increased
2-Butoxyethyl acetate [112-07-2] - Skin	25 ppm (164 mg/m <sup>3</sup> )	75 ppm (492 mg/m <sup>3</sup> )		2-Butoxyethyl acetate (EGBEA) [112-07-2]	20 ppm			Acronym added, exposure limit reduced, STEV removed, Skin notation removed
n-Butyl alcohol [71-36-3] - Skin			50 ppm (150 mg/m <sup>3</sup> )	n-Butanol [71-36-3]	20 ppm			Name of substance, TWAEV developed, CEV removed, Skin notation removed MW 74.12
Calcium carbonate, including marble (total dust) [471-34-1]	10 mg/m <sup>3</sup>			Calcium carbonate [471-34-1]	10 mg/m <sup>3</sup> (D)			Nomenclature, notation added
Caprolactam, vapour and aerosol [105-60-2]	0.25 ppm (1 mg/m <sup>3</sup> )			Caprolactam [105-60-2]	5 mg/m <sup>3</sup>  (inhalable, vapour and aerosol)			Unit of measurement, allowable exposure developed for vapour and aerosol as an inhalable fraction
Captan [133-06-02]	5 mg/m <sup>3</sup>			Captan [133-06-02]	5 mg/m <sup>3</sup>  (inhalable)			Allowable exposure developed as an inhalable fraction MW 300.60

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Carbofuran [1563-66-2]	0.1 mg/m <sup>3</sup>			Carbofuran [1563-66-2]  (inhalable, vapour and aerosol)	0.1 mg/m <sup>3</sup>			Allowable exposure developed for vapour and aerosol as an inhalable fraction MW 221.30
1-Chloro-2-propanol [127-00-4] and 2-Chloro-1-propanol [78-89-7] – Skin	Substance not currently listed			1-Chloro-2-propanol [127-00-4] and 2-Chloro-1-propanol [78-89-7] - Skin	1 ppm			Addition of substance to regulation MW 94.54
Chlorpyrifos [2921-88-2] - Skin	0.2 mg/m <sup>3</sup>	0.6 mg/m <sup>3</sup>		Chlorpyrifos [2921-88-2] - Skin	0.1 mg/m <sup>3</sup>  (inhalable, vapour and aerosol)			Allowable exposure limit developed for vapour and aerosol as an inhalable fraction, STEV removed MW 350.57
Cyclohexane [110-82-7]	300 ppm (1,030 mg/m <sup>3</sup> )			Cyclohexane [110-82-7]	100 ppm			Exposure limit reduced MW 84.16
Cyclohexanone [108-94-1] - Skin	25 ppm (100 mg/m <sup>3</sup> )			Cyclohexanone [108-94-1] - Skin	20 ppm	50 ppm		Exposure limit reduced, STEV introduced MW 98.14

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Demeton [8065-48-3] - Skin	0.01 ppm (0.11 mg/m <sup>3</sup> )			Demeton [8065-48-3] - Skin	0.05 mg/m <sup>3</sup>  (inhalable, vapour and aerosol)			Allowable exposure limit developed for vapour and aerosol as an inhalable fraction MW 258.34
Demeton-S-methyl [919-86-8] – Skin	Substance not currently listed			Demeton-S-methyl [919-86-8] – Skin	0.05 mg/m <sup>3</sup>  (inhalable, vapour and aerosol)			Addition of substance to regulation
2,2-Dichloropropionic acid [75-99-0]	1 ppm (6 mg/m <sup>3</sup> )			2,2-Dichloropropionic acid [75-99-0]	5 mg/m <sup>3</sup>  (inhalable)			Allowable exposure limit developed as an inhalable fraction MW 142.97
Dichlorvos [62-73-7] - Skin	0.1 ppm (0.9 mg/m <sup>3</sup> )			Dichlorvos (DDVP) [62-73-7] – Skin	0.1 mg/m <sup>3</sup>  (inhalable, vapour and aerosol)			Allowable exposure limit developed for vapour and aerosol as an inhalable fraction, acronym added MW 220.98

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Dicrotophos [141-66-2] – Skin	0.25 mg/m <sup>3</sup>			Dicrotophos [141-66-2] – Skin	0.05 mg/m <sup>3</sup>  (inhalable, vapour and aerosol)			Allowable exposure limit developed for the vapour and aerosol as an inhalable fraction MW 237.21
Diesel fuel [68334-30-5; 68476-30-2; 68476-31-3; 68476-34-6; 77650-28-3], as total hydrocarbons - SkinMW various	Substance not currently listed			Diesel fuel [68334-30-5; 68476-30-2; 68476-31-3; 68476-34-6; 77650-28-3], as total hydrocarbons - Skin	100 mg/m <sup>3</sup>  (vapour and aerosol)			Addition of substance to regulation
ar,ar-Dimethylbenzenamine (sum of all isomers) [1300-73-8] - Skin	0.5 ppm			ar,ar-Dimethylbenzenamine (sum of all isomers) [1300-73-8] – Skin  also known as Xylidine	0.5 ppm  (inhalable, vapour and aerosol)			Allowable exposure limit developed for the vapour and aerosol as an inhalable fraction MW 121.18
Dimethyl sulfide [75-18-3]	Substance not currently listed			Dimethyl sulfide [75-18-3]	10 ppm			Addition of substance to regulation MW 62.14
Dioxathion [78-34-2] - SkinMW 456.54	0.2 mg/m <sup>3</sup>			Dioxathion [78-34-2] - Skin	0.1 mg/m <sup>3</sup>  (inhalable, vapour and aerosol)			Allowable exposure limit developed for the vapour and aerosol as an inhalable fraction

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1,3-Dioxolane [646-06-0] MW 74.08	Substance not currently listed			1,3-Dioxolane [646-06-0]	20 ppm		Addition of substance to regulation
Disulfoton [298-04-4]	0.1 mg/m <sup>3</sup>			Disulfoton [298-04-4] - Skin	0.05 mg/m <sup>3</sup> (inhalable, vapour and aerosol)		Allowable exposure limit developed for the vapour and aerosol as an inhalable fraction, skin notation added
Dodecyl mercaptan [112-55-0]	Substance not currently listed			Dodecyl mercaptan [112-55-0]	0.1 ppm		Addition of substance to regulation MW 202.4
Ethane [74-84-0]	No specific exposure limit currently. Substance is listed as an asphyxiant in Part 9 of the regulation			Ethane [74-84-0]	1,000 ppm		TWAEV developed for substance, substance moved from Part 9 (Asphyxiants) of the regulation to Part 4.
O-Ethyl O-p-nitrophenyl phenylphosphonothioate [2104-64-5] - Skin MW 323.31	0.1 mg/m <sup>3</sup>			O-Ethyl O-p-nitrophenyl phenylphosphonothioate (EPN) [2104-64-5] - Skin	0.1 mg/m <sup>3</sup> (inhalable)		Allowable exposure limit developed as an inhalable fraction, acronym added
Ethion [563-12-2] - Skin	0.4 mg/m <sup>3</sup>			Ethion [563-12-2] - Skin	0.05 mg/m <sup>3</sup> (inhalable, vapour and aerosol)		Allowable exposure limit developed for vapour and aerosol as an inhalable fraction  MW 384.48

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2-Ethylhexanoic acid [149-57-5] MW 144.24	Substance not currently listed			2-Ethylhexanoic acid [149-57-5]	5 mg/m <sup>3</sup>  (inhalable, vapour and aerosol)		Addition of substance to regulation	
Ethyl tert-butyl ether (ETBE) [637-92-3] MW 102.18	Substance not currently listed			Ethyl tert-butyl ether (ETBE) [637-92-3]	5 ppm		Addition of substance to regulation	
Wheat flour dust (total dust)	3 mg/m <sup>3</sup>			Flour dust	0.5 mg/m <sup>3</sup>  (inhalable)		Nomenclature, allowable exposure limit developed as an inhalable fraction	
Gasoline [8006-61-9]	900 mg/m <sup>3</sup>	1,500 mg/m <sup>3</sup>		Gasoline [86290-81-5]	300 ppm	500 ppm	CAS number, unit of measurement	
Glyoxal [107-22-2]MW 58.04	Substance not currently listed			Glyoxal [107-22-2]	0.1 mg/m <sup>3</sup>  (inhalable, vapour and aerosol)		Addition of substance to regulation	
Hexahydrophthalic anhydride, All isomers [85-42-7; 13149-00-3; 14166-21-3]	Substance not currently listed			Hexahydrophthalic anhydride, All isomers [85-42-7; 13149-00-3; 14166-21-3]			0.005 mg/m <sup>3</sup>  (inhalable, vapour and aerosol)	Addition of substance to regulationMW 154.17

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1-Hexene [592-41-6]	30 ppm			1-Hexene [592-41-6]	50 ppm			Exposure limit increased
Hydrogen bromide [10035-10-6]			3 ppm (10 mg/m <sup>3</sup> )	Hydrogen bromide [10035-10-6]			2 ppm	Exposure limit reduced MW 80.92
Hydrogen Chloride [7647-01-0] MW 36.47			5 ppm (7.4 mg/m <sup>3</sup> )	Hydrogen Chloride [7647-01-0]			2 ppm	Exposure limit reduced
Isobutyl nitrite [542-56-3]	Substance not currently listed			Isobutyl nitrite [542-56-3]			1 ppm (inhalable, vapour and aerosol)	Addition of substance to regulation MW 103.12
Isopropyl acetate [108-21-4]	250 ppm (1,040 mg/m <sup>3</sup> )	310 ppm (1,295 mg/m <sup>3</sup> )		Isopropyl acetate [108-21-4]	100 ppm	200 ppm		Exposure limit reduced MW 102.13
Isopropyl alcohol [67-63-0] MW 60.09	400 ppm (980 mg/m <sup>3</sup> )	500 ppm (1,225 mg/m <sup>3</sup> )		Isopropanol [67-63-0]	200 ppm	400 ppm		Exposure limit reduced, nomenclature
Kerosene, straight-run [8008-20-6] and hydrosulfurized [64742-81-0]	35 ppm (250 mg/m <sup>3</sup> )			Kerosene [8008-20-6;64742-81-0]/Jet fuels as total hydrocarbon vapour (p) - Skin variable MW	200 mg/m <sup>3</sup>			Exposure limit reduced, jet fuels added (nomenclature), exposure limit developed as vapour, skin notation added
L.P.G. (Liquified petroleum gas) [68476-85-7]	1,800 mg/m <sup>3</sup>			L.P.G. (Liquified petroleum gas) [68476-85-7]	1000 ppm			Unit of measure changed

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Magnesium oxide fume [1309-48-4]  MW40.32	10 mg/m <sup>3</sup>			Magnesium oxide [1309-48-4]  (inhalable)	10 mg/m <sup>3</sup>			Allowable exposure changed from fume content to inhalable fraction
Malathion [121-75-5] - Skin MW 330.36	10 mg/m <sup>3</sup>			Malathion [121-75-5] - Skin	1 mg/m <sup>3</sup>  (inhalable, vapour and aerosol)			Allowable exposure limit developed as a vapour and aerosol inhalable fraction
Maleic anhydride [108-31-6] MW 98.06	0.25 ppm (1 mg/m <sup>3</sup> )			Maleic anhydride [108-31-6]	0.1 ppm			Exposure limit reduced
Manganese, dust and compounds (as manganese) [7439-96-5]	0.2 mg/m <sup>3</sup>			Manganese [7439-96-5] and inorganic compounds, as Mn	0.2 mg/m <sup>3</sup>			STEV eliminated and TWAEV limit developed to apply to exposure to Manganese, and Manganese component of Manganese-containing inorganic compounds
Manganese-containing fume (as manganese) [7439-96-5]	1 mg/m <sup>3</sup>	3 mg/m <sup>3</sup>						
Methane [74-82-8]	No specific exposure limit currently. Substance is listed as an asphyxiant in Part 9 of the regulation			Methane [74-82-8]	1,000 ppm			TWAEV developed for substance, substance moved from Part 9 of the regulation (Exposure Values for Simple Asphyxiants) to Part 4 MW 18
Methyl tert-butyl ether (MTBE) [1634-04-4]	Substance not currently listed			Methyl tert-butyl ether (MTBE) [1634-04-4]	50 ppm			Addition of substance to regulation MW 88.17

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Methyl methacrylate [80-62-6] MW 100.13	100 ppm (410 mg/m <sup>3</sup> )			Methyl methacrylate [80-62-6]	50 ppm	100 ppm		Exposure limit reduced, STEV introduced
Mevinphos [7786-34-7] - Skin	0.01 ppm (0.1 mg/m <sup>3</sup> )	0.03 ppm (0.3 mg/m <sup>3</sup> )		Mevinphos [7786-34-7] - Skin	0.01 mg/m <sup>3</sup>  (inhalable, vapour and aerosol)			Allowable exposure limit developed for vapour and aerosol as an inhalable fraction, STEV eliminated
Molybdenum metal, dioxide and disulfide (as molybdenum) [7439-98-7]	10 mg/m <sup>3</sup>			Molybdenum [7439-98-7], as Mo Soluble compounds	0.5 mg/m <sup>3</sup> (respirable)			Nomenclature, limit for soluble compounds of Mo reduced, limits for insoluble compounds developed as inhalable and respirable fractions
Molybdenum trioxide and molybdates (as molybdenum) [7439-98-8]	5 mg/m <sup>3</sup>			Metal and insoluble compounds	10 mg/m <sup>3</sup> (inhalable) or 3 mg/m <sup>3</sup> (respirable)			
Monocrotophos [6923-22-4]	0.25 mg/m <sup>3</sup>			Monocrotophos [6923-22-4] - Skin	0.05 mg/m <sup>3</sup>  (inhalable, vapour and aerosol)			Allowable exposure limit developed as a fraction of inhalable vapour and aerosol, skin notation added

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Naled [300-76-5] - Skin	3 mg/m <sup>3</sup>			Naled [300-76-5]	0.1 mg/m <sup>3</sup> (inhalable, vapour and aerosol)			Allowable exposure limit developed as a vapour and aerosol inhalable fraction, skin notation removed
Natural gas [8006-14-2]	Substance not currently listed			Natural gas [8006-14-2]	1,000 ppm			Addition of substance to regulation
Natural rubber latex [9006-04-6], as Total proteins - Skin	Substance not currently listed			Natural rubber latex [9006-04-6], as Total proteins – Skin	0.001 mg/m <sup>3</sup> (inhalable)			Addition of substance to regulation
p,p'-Oxybis(benzenesulfonyl hydrazide) [80-51-3]	Substance not currently listed			p,p'-Oxybis(benzenesulfonyl hydrazide) [80-51-3]	0.1 mg/m <sup>3</sup> (inhalable)			Addition of substance to regulation
Parathion [56-38-2] - Skin	0.05 mg/m <sup>3</sup>			Parathion [56-38-2] - Skin	0.05 mg/m <sup>3</sup> (inhalable, vapour and aerosol)			Allowable exposure limit developed as a vapour and aerosol inhalable fraction

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Particulates (insoluble) Not Otherwise Classified (PNOC)	10 mg/m <sup>3</sup> (D) (inhalable) or 3 mg/m <sup>3</sup> (D)(respirable)			Particles (insoluble or poorly soluble) Not Otherwise Specified (PNOS)	10 mg/m <sup>3</sup> (inhalable) or 3 mg/m <sup>3</sup> (respirable)			Nomenclature, (D) notation removed
n-Amyl acetate [628-63-7]	100 ppm (530 mg/m <sup>3</sup> )			Pentyl acetate, Sum of all isomers [628-63-7; 626-38-0; 123-92-2; 625-16-1; 624-41-9; 620-11-1]	50 ppm	100 ppm		New format of listing includes all pentyl isomers of acetate, as a summed total exposure, 3 new isomers
sec-Amyl acetate [54396-15-4]	125 ppm (660 mg/m <sup>3</sup> )							
Isoamyl acetate [123-92-2]	100 ppm (530 mg/m <sup>3</sup> )							
Perfluorobutyl ethylene [19430-93-4]	Substance not currently listed			Perfluorobutyl ethylene [19430-93-4]	100 ppm			Addition of substance to regulation
(Phenoxymethyl)oxirane [122-60-1]	0.1 ppm			(Phenoxymethyl)oxirane [122-60-1] – Skin also known as Phenyl glycidyl ether (PGE) MW 150.17	0.1 ppm			Nomenclature, skin notation added
Phenyl mercaptan [108-98-5] - Skin	Substance not currently listed			Phenyl mercaptan [108-98-5] - Skin	0.1 ppm			Addition of substance to regulation MW 110.18

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Phosphorothionic acid 0,0-diethyl o-(6-methyl)-2-(1-methylethyl)-4-pyrimidinyl) ester [333-41-5] - Skin	0.1 mg/m <sup>3</sup>			Diazinon [333-41-5] - Skin	0.01 mg/m <sub>3</sub>  (inhalable, vapour and aerosol)			Name of substance, allowable exposure limit developed as vapour and aerosol inhalable fraction MW 304.36
Phosphorus (yellow or white) [7723-14-0]	0.1 mg/m <sup>3</sup>			Phosphorus (yellow) [12185-10-3]	0.1 mg/m <sup>3</sup>			Nomenclature, CAS number updated 123.92
Propane [74-98-6]	2,500 ppm			Propane [74-98-6]	1,000 ppm			Exposure limit reduced MW 50
n-Propyl alcohol [71-23-8] - Skin	200 ppm (490 mg/m <sup>3</sup> )	250 ppm (615 mg/m <sup>3</sup> )		n-Propanol (n-Propyl alcohol) [71-23-8]	200 ppm	250 ppm		Nomenclature, skin notation removed MW 60.09
Propionaldehyde [123-38-6]  MW 58.1	Substance not currently listed			Propionaldehyde [123-38-6]	20 ppm			Addition of substance to regulation
Propylene oxide [75-56-9] MW 58.08	Substance not currently listed			Propylene oxide [75-56-9]	2 ppm			Addition of substance to regulation
Pyridine [110-86-1]	5 ppm (16 mg/m <sup>3</sup> )			Pyridine [110-86-1]	1 ppm			Exposure limit reduced MW 79.10

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Rosin core solder pyrolysis products (as formaldehyde)	0.1 mg/m <sup>3</sup>			Rosin core solder thermal decomposition products (colophony) [8050-09-7] (L)			TWAEV withdrawn, notation (L) added to require exposure by all routes be carefully controlled to levels as low as possible, CAS number added, nomenclature
Silica, Crystalline – Quartz [14808-60-7]  (Designated Substance) MW 60.08	0.10 mg/m <sup>3</sup> (respirable)			Silica, Crystalline – Quartz [14808-60-7]  (Designated Substance)	0.05 mg/m <sup>3</sup> (respirable)		Exposure limit reduced
Silicon Carbide (total dust) [409-21-2]	10 mg/m <sup>3</sup> (D)			Silicon Carbide [409-21-2] Nonfibrous  Fibrous (including whiskers)  MW 40.10	10 mg/m <sup>3</sup> (inhalable) (D) or 3 mg/m <sup>3</sup> (respirable)(D)  0.1 f/cc (respirable fibre(F))		Individual limits developed for Non-fibrous and Fibrous forms, limits developed for the inhalable and/or respirable fraction with appropriate notation
Sulfuric acid [7664-93-9]	1 mg/m <sup>3</sup>	3 mg/m <sup>3</sup>		Sulfuric acid [7664-93-9]	0.2 mg/m <sup>3</sup> (thoracic)		Introduces allowable exposure limit for thoracic particulate mass, STEV removed

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Synthetic Vitreous Fibres (Man made Mineral Fibres)				Synthetic Vitreous Fibres				Specific limit for refractory ceramic fibres introduced, limit developed as a respirable fraction or inhalable fraction, (F) notation added where appropriate
Continuous filament glass fibres	1 f/cc			Continuous filament glass fibres	1 f/cc (respirable fibre(F)) or 5 mg/m <sup>3</sup> (inhalable)			
Continuous filament glass fibres, inhalable	5 mg/m <sup>3</sup>							
Glass wool fibres	1 f/cc			Glass wool fibres	1 f/cc (respirable fibre(F))			
Rock wool fibres	1 f/cc			Rock wool fibres	1 f/cc (respirable fibre(F))			
Slag wool fibres	1 f/cc			Slag wool fibres	1 f/cc (respirable fibre(F))			
Special purpose glass fibres	1 f/cc			Special purpose glass fibres	1 f/cc (respirable fibre(F))			
Synthetic vitreous fibres, not otherwise classified (excluding fibrous glass dust and mineral wool fibre)	1 f/cc (E)			Refractory ceramic fibres	0.2 f/cc (respirable fibre(F))			
				Synthetic vitreous fibres, not otherwise classified	1 f/cc (E)			

## 2004 Review of Occupational Exposure Limits in Ontario

Current Ontario Listing				Proposed Ontario Listing			Change	
Substance	OEL			Substance	OEL			
	TWAEV <sup>1</sup>	STEV <sup>2</sup>	CEV <sup>3</sup>		TWAEV	STEV		CEV
Terbufos [13071-79-9] – Skin MW 288.45	Substance not currently listed			Terbufos [13071-79-9] – Skin	0.01 g/m <sup>3</sup> (inhalable, vapour and aerosol)			Addition of substance to regulation
Tetrafluoroethylene [116-14-3] MW 100.20	Substance not currently listed			Tetrafluoroethylene [116-14-3]	2 ppm			Addition of substance to regulation
Isocyanates, Toluene diisocyanate  (Designated Substance)	0.005 ppm (0.2 µmoles/m <sup>3</sup> )		0.02 ppm (0.8 µmoles/m <sup>3</sup> )	Isocyanates, Toluene-2,4 or 2,6- diisocyanate (or as a mixture) [584-84-9; 91-08-7] (Designated Substance)	0.005 ppm	0.02 ppm		Nomenclature, introduction of STEV and elimination of CEV increases exposure limit
Trichlorphon [52-68-6] MW 257.60	Substance not currently listed			Trichlorphon [52-68-6]	1 mg/m <sup>3</sup> (inhalable)			Addition of substance to regulation
Turpentine [8006-64-2]	560 mg/m <sup>3</sup>			Turpentine [8006-64-2] MW 136.00 and selected monoterpenes [80-56-8; 127-91- 3; 13466-78-9] MW variable	20 ppm			Allowable exposure reduced, selected monoterpenes added to regulation, unit of measurement
N-Vinyl-2-pyrrolidone [88-12-0] MW 111.16	Substance not currently listed			N-Vinyl-2-pyrrolidone [88-12-0]	0.05 ppm			Addition of substance to regulation
Zinc oxide (total dust) [1314-13-2]	10 mg/ m <sup>3</sup>			Zinc oxide [1314-13-2]	2 mg/ m <sup>3</sup> (respirabl e)	10 mg/ m <sup>3</sup> (respirabl e)		Allowable exposure reduced, consolidation of listing, limits developed for the respirable fraction, STEV added
Zinc oxide fume [1314-13-2]	5 mg/ m <sup>3</sup>	10 mg/ m <sup>3</sup>						

## 2004 Review of Occupational Exposure Limits in Ontario

Shading of row denotes substance is a new addition to the regulation.

<sup>1</sup> TWAEV: Time weighted average exposure value; the average of the airborne concentrations of a biological or chemical agent determined from air samples of the airborne concentrations to which a worker is exposed in eight-hour day or a 40-hour week.

<sup>2</sup> STEV: Short-term exposure value; is the maximum airborne concentration of a biological or chemical agent to which a worker is exposed in any 15-minute period determined from a single sample or a time-weighted average of sequential samples taken during such a period.

<sup>3</sup> CEV: Ceiling exposure value; is the maximum airborne concentration of a biological or chemical agent to which a worker is exposed at any time.

(D) Particulate matter containing no asbestos and less than 1% crystalline silica.

(E) A secondary limit of 5 mg/m<sup>3</sup> (total dust) is recommended to deal with dusty operations where fibre counts are usually difficult to determine. Where both types of measurements are made simultaneously, the more restrictive limit should be used to assess the exposures.

(F) Respirable fibres: length > 5µm; aspect ratio  $\geq$  3 :1 as determined by the membrane filter method at 400-450X magnification (4-mm objective), using phase-contrast illumination.

(P) Application of limit restricted to conditions in which there are negligible aerosol exposures.

(L) means ACGIH recommends that exposure by all routes should be carefully controlled to levels as low as possible.