

2006 Review of Occupational Exposure Limits in Ontario

CHANGES TO O.REG.833, CONTROL OF EXPOSURE TO BIOLOGICAL AND CHEMICAL SUBSTANCES								
Current Ontario Listing				Proposed Ontario Listing				Change
Substance	OEL			Substance	OEL			
	TWAEV ¹	STEV ²	CEV ³		TWAEV ¹	STEV ²	CEV ³	
Calcium sulfate, including plaster of Paris (total dust) [10101-41-4]	10 mg/m ³			Calcium sulfate [7778-18-9; 10034-76-1; 10101-41-4; 13397-24-5] including Gypsum	10 mg/m ³ (inhalable)			Allowable exposure limit developed for the inhalable fraction. Incorporates listing for Gypsum, which was previously listed separately in the regulation.
Carbon disulfide [75-15-0] – Skin	10 ppm (31 mg/m ³)			Carbon disulfide [75-15-0] – Skin	1 ppm			Allowable exposure limit reduced.
Coumaphos [56-72-4] – Skin	Not currently listed			Coumaphos [56-72-4] – Skin	0. 5 mg/m ³ (inhalable, vapour and aerosol)			Addition of substance to regulation.
Diatomaceous earth, (uncalcined) [61790-53-2]	10 mg/m ³ (D), (inhalable) 3 mg/m ³ (D), (respirable)							Remove listing from regulation.
1,2-Dichloropropane [78-87-5]	75 ppm (350 mg/m ³)	110ppm (510 mg/m ³)		Propylene dichloride [78-87-5], also known as 1,2-Dichloropropane	10 ppm			Listing nomenclature changed. Allowable exposure limit reduced.

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Fenamiphos [22224-92-6] – Skin	0.1 mg/m ³			Fenamiphos [22224-92-6] – Skin	0.05 mg/m ³ (inhalable, vapour and aerosol)			Allowable exposure limit developed for vapour and aerosol in the inhalable fraction.
Fenthion [55-38-9] – Skin	0.1 mg/m ³			Fenthion [55-38-9] – Skin	0.05 mg/m ³ (inhalable, vapour and aerosol)			Allowable exposure limit developed for vapour and aerosol in the inhalable fraction.
Fonofos [944-22-9] – Skin	0.1 mg/m ³			Fonofos [944-22-9] – Skin	0.01 mg/m ³ (inhalable, vapour and aerosol)			Allowable exposure limit reduced. Allowable exposure limit developed for vapour and aerosol in the inhalable fraction.
Gypsum (total dust) [10101-41-4]	10 mg/m ³							Separate listing in regulation removed. Listed as Calcium sulphate. Allowable exposure limit developed for the inhalable fraction.
Iron oxide (Fe ₂ O ₃) dust and fume (as Fe) [1309-37-1]	5 mg/m ³			Iron oxide (Fe ₂ O ₃) [1309-37-1]	5 mg/m ³ (respirable)			Allowable exposure limit developed for the respirable fraction. Incorporates listing for Rouge, which was previously listed separately in the regulation.

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Magnesite (total dust) [546-93-0]	10 mg/m ³ (D)							Remove listing from regulation.
2-Methoxyethanol (EGME) [109-86-4] – Skin	5 ppm (16 mg/m ³)			2-Methoxyethanol (EGME) [109-86-4] – Skin	0.1 ppm			Allowable exposure limit reduced.
2-Methoxyethyl acetate (EGMEA) [110-49-6] — Skin	5 ppm (24 mg/m ³)			2-Methoxyethyl acetate (EGMEA) [110-49-6] — Skin	0.1 ppm			Allowable exposure limit reduced.
Monochloroacetic acid [79-11-8]	Substance not currently listed			Monochloroacetic acid – Skin [79-11-8]	0.5 ppm (inhalable, vapour and aerosol)			Addition of substance to regulation.
Perlite (a)	10 mg/m ³ (D)							Remove listing from regulation.
Precipitated silica (total dust) [1309-37-1]	10 mg/m ³							Remove listing from regulation.
Propylene [115-07-1]	No specific exposure limit currently listed. Substance is listed as a simple asphyxiant in Part 9 of the regulation.			Propylene [115-07-1]	500 ppm			Allowable exposure limit developed. Substance moved from Part 9 (Simple Asphyxiants) of the regulation to Part 4.

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Ronnel [299-84-3]	10 mg/m ³			Ronnel [299-84-3]	5 mg/m ³ (inhalable, vapour and aerosol)			Allowable exposure limit developed for vapour and aerosol in the inhalable fraction.
Rouge (total dust) [1309-37-1]	10 mg/m ³ (D)							Separate listing in regulation removed. Listed as Iron Oxide. Allowable exposure limit reduced.
Silica fume, respirable [69012-64-2]	2 mg/m ³							Remove listing from regulation.
Silica fused, respirable [60676-86-0]	0.1 mg/m ³							Remove listing from regulation.
Silica gel (112926-00-8)	10 mg/m ³							Remove listing from regulation.
Silicon (total dust) [7440-21-3]	10 mg/m ³							Remove listing from regulation.
1,1,2,2-Tetrabromoethane [79-27-6]	1 ppm (14 mg/m ³)			1,1,2,2-Tetrabromoethane [79-27-6]	0.1 ppm (inhalable, vapour and aerosol)			Allowable exposure limit developed for vapour and aerosol in the inhalable fraction.
Tetrasodium pyrophosphate [7722-88-5]	5 mg/m ³							Remove listing from regulation.

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Vegetable oils (mists) except mists of irritant oils such as oils of castor and cashew nut	10 mg/m ³						Remove listing from regulation.

CHANGES TO O.REG.845, REGULATION RESPECTING SILICA							
Current Ontario Listing				Proposed Ontario Listing			
Substance	OEL			Substance	OEL		
	TWAEV	STEV	CEV		TWAEV	STEV	CEV
Silica, crystalline							
- cristobalite	0.05 mg/m ³ (respirable)			Silica, crystalline – α-quartz [14808-60-7; 1317-95-9] and cristobalite [14464-46-1]	0.025 mg/m ³ (respirable)		Multiple forms of crystalline Silica now combined into one listing. Allowable exposure limit reduced.
- quartz and tripoli	0.10 mg/m ³ (respirable)						

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

¹ TWAEV: Time- weighted average exposure value; is the allowable 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 a work day or a work week. (O. Reg. 833)

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² 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. (O. Reg. 833)

³ CEV: Ceiling exposure value; is the maximum airborne concentration of a biological or chemical agent to which a worker is exposed at any time. (O. Reg. 833)