

RULES AND REGULATIONS

Title 25—ENVIRONMENTAL PROTECTION

ENVIRONMENTAL QUALITY BOARD

[25 PA. CODE CH. 250]

Corrective Amendments to 25 Pa. Code §§ 250.306 and 250.307 and Appendix A, Tables 1, 3b, 5a and 5b

The Department of Environmental Protection has discovered discrepancies between the agency text of 25 Pa. Code §§ 250.306 and 250.307 and Appendix A, Tables 1, 3b, 5a and 5b, as deposited with the Legislative Reference Bureau, and the official text published at 41 Pa.B. 230 (January 8, 2011) and the official text currently appearing in the *Pennsylvania Code*. Amendments to 25

Pa. Code §§ 250.306 and 250.307 and Appendix A, Tables 1, 3b, 5a and 5b adopted at 41 Pa.B. 230 were incorrectly codified.

Therefore, under 45 Pa.C.S. § 901: The Department of Environmental Protection has deposited with the Legislative Reference Bureau a corrective amendment to 25 Pa. Code §§ 250.306 and 250.307 and Appendix A, Tables 1, 3b, 5a and 5b. The corrective amendment to 25 Pa. Code §§ 250.306 and 250.307 and Appendix A, Tables 1, 3b, 5a and 5b is effective as of March 5, 2011, the date the defective official text was announced in the *Pennsylvania Bulletin*.

The correct versions of 25 Pa. Code §§ 250.306 and 250.307 and Appendix A, Tables 1, 3b, 5a and 5b appear in Annex A, with ellipses referring to the existing text.

(*Editor's Note:* For a proposed rulemaking relating to this corrective amendment, see 44 Pa.B. 2980 (May 17, 2014).)

Annex A

TITLE 25. ENVIRONMENTAL PROTECTION

PART I. DEPARTMENT OF ENVIRONMENTAL PROTECTION

Subpart D. ENVIRONMENTAL HEALTH AND SAFETY

ARTICLE VI. GENERAL HEALTH AND SAFETY

CHAPTER 250. ADMINISTRATION OF LAND RECYCLING PROGRAM

Subchapter C. STATEWIDE HEALTH STANDARDS

§ 250.306. Ingestion numeric values.

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(d) The default exposure assumptions used to calculate the ingestion numeric values are as follows:

Term		Residential		Nonresidential (Onsite Worker)
		Systemic ¹	Carcinogens ^{2,6}	
THQ	Target Hazard Quotient	1	N/A	1
* * * * *				

§ 250.307. Inhalation numeric values.

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(g) For a regulated substance which is a carcinogen and is a volatile compound, the numeric value for the inhalation of volatiles from groundwater shall be calculated by using the appropriate residential or nonresidential exposure assumptions from subsection (h) according to the following equations:

(1) For regulated substances not identified as a mutagen in § 250.301(b):

$$MSC = \frac{TR \times AT_c \times 365 \text{ days/year}}{IUR \times ET \times EF \times ED \times TF \times CF}$$

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APPENDIX A
 TABLE 1—MEDIUM-SPECIFIC CONCENTRATIONS (MSCs) FOR ORGANIC REGULATED SUBSTANCES IN GROUNDWATER

REGULATED SUBSTANCE	CASRN	USED AQUIFERS										NON-USE AQUIFERS			
		TDS ≤ 2500					TDS > 2500					R	NR		
		R	*	*	*	*	R	*	*	*	*				
CRESOLS	1319-77-3	180	G	510	G	18,000	G	51,000	G	18,000	G	18,000	G	51,000	G
DICHLOROBENZENE, 1,3-	541-73-1	600	H	600	H	60,000	H	60,000	H	60,000	H	60,000	H	60,000	H
ETHYLENE GLYCOL	107-21-1	14,000	H	14,000	H	1,400,000	H	1,400,000	H	1,400,000	H	1,400,000	H	1,400,000	H
FLUOMETURON (FLUOMETRON IN EPA FEB 96)	2164-17-2	90	H	90	H	9,000	H	9,000	H	9,000	H	90	H	90	H
POLYCHLORINATED BIPHENYLS (PCBS)	1336-36-3	0.5	M	0.5	M	50	M	50	M	50	M	0.5	M	0.5	M

All concentrations in µg/L. M = Maximum Contaminant Level
 R = Residential H = Lifetime health advisory level
 NR = Non-Residential G = Ingestion
 N = Inhalation
 S = Aqueous solubility cap

APPENDIX A
 TABLE 3—MEDIUM-SPECIFIC CONCENTRATIONS (MSCs) FOR ORGANIC REGULATED SUBSTANCES IN SOIL
 B. Soil to Groundwater Numeric Values¹

REGULATED SUBSTANCE	CASRN	Used Aquifers						Non-Use Aquifers						Soil Buffer Distance (feet)						
		TDS ≤ 2500			TDS > 2500			Residential			Nonresidential									
		Residential 100 X GW MSC	Generic Value	Nonresidential 100 X GW MSC	Residential 100 X GW MSC	Generic Value	Nonresidential 100 X GW MSC	Residential 100 X GW MSC	Generic Value	Nonresidential 100 X GW MSC	Residential 100 X GW MSC	Generic Value	Nonresidential 100 X GW MSC							
CRESOL, O- (2-METHYLPHENOL)	95-48-7	180	30 E	510	85 E	18,000	3,000	3,000	E	51,000	8,500	E	18,000	3,000	E	51,000	8,500	E	NA	
CRESOL, M- (3-METHYLPHENOL)	108-39-4	180	36 E	510	100 E	10,000	3,600	E	10,000	10,000	C	10,000	C	10,000	C	10,000	10,000	C	NA	
CRESOL, P- (4-METHYLPHENOL)	106-44-5	18	4.2 E	51	12 E	1,800	420	E	5,100	1,200	E	18,000	4,200	E	51,000	12,000	E	NA		
DICHLOROPROPIONIC ACID, 2,2- (DALAPON)	75-99-0	20	5.3 E	20	5.3 E	2,000	530	E	2,000	530	E	2,000	530	E	2,000	530	E	530	E	NA
WARFARIN	81-81-2	1.1	2.6 E	3.1	7.4 E	110	260	E	310	740	E	1,100	2,600	E	1,700	4,100	E	4,100	E	30

¹ For other options see § 250.308

All concentrations in mg/kg

E – Number calculated by the soil to groundwater equation in § 250.308

C – Cap

NA – The soil buffer distance option is not available for this substance

APPENDIX A
TABLE 5—PHYSICAL AND TOXICOLOGICAL PROPERTIES
A. Organic Regulated Substances

Regulated Substance	CAS	RfDo (mg/kg-d)	CSfD (mg/kg-d) ¹	RfCi (mg/m ³)	IUR (µg/m ³) ¹	Koc (L/KG)	VOC?	Aqueous Sol (mg/L)	Aqueous Sol Reference ¹	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient (K/yr ¹)
BENZO[GHI]PERYLENE	191-24-2	0.06	S			2,800,000		0.00026	1,5,6				500	0.19
CARBON DISULFIDE	75-15-0	0.1	I	0.7	I	300	X	2,100	1,2,3	13,100	15,100	X	46	
CHLORODIFLUOROMETHANE	75-45-6			50	I	59	X	2,899	4	13,200	15,000	X	-41	
DICHLOROPROPIONIC ACID, 2,2- (DALAPON)	75-99-0	0.03	I			62	X	500,000	5	13,000	14,900	X	190	2.11
ENDOSULFAN I (ALPHA)	959-98-8	0.006	S			2,000		0.5	6				401	
ENDOSULFAN II (BETA)	33213-65-9	0.006	S			2,300		0.45	6				390	

¹ Aqueous solubility references are keyed to the numbered list found at § 250.304(f). Where there are multiple sources cited, the table value is the median of the values in the individual references.

Toxicity Value Sources:

- C = California EPA Cancer Potency Factor
- D = ATSDR Minimal Risk Level
- H = Health Effects Assessment Summary Table (HEAST)
- I = Integrated Risk Information System (IRIS)
- M = EPA Drinking Water Regulations and Health Advisories
- N = EPA NCEA Provisional Values
- P = EPA Provisional Peer-Reviewed Toxicity Value
- S = surrogate
- T = TEF
- TE = TERA ITER Peer-Reviewed Value

APPENDIX A
TABLE 5—PHYSICAL AND TOXICOLOGICAL PROPERTIES
B. Inorganic Regulated Substances

<i>Regulated Substance</i>	<i>CAS</i>	<i>RfDo</i> (mg/kg-d)	<i>CSFo</i> (mg/kg-d) ⁻¹	<i>RfCi</i> (mg/m ³) ⁻¹	<i>IUR</i> (ug/m ³) ⁻¹	<i>Kd</i>
BARIUM AND COMPOUNDS	7440-39-3	0.2	I	0.0005	H	41
FLUORIDE	16984-48-8	0.04	C	0.013	C	

Toxicity Value Sources:

- C = California EPA Cancer Potency Factor
- D = ATSDR Minimal Risk Level
- H = Health Effects Assessment Summary Table (HEAST)
- I = Integrated Risk Information System (IRIS)
- P = EPA Provisional Peer-Reviewed Toxicity Value
- s = surrogate

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