

7. REGULATIONS AND ADVISORIES

The national and state regulations and guidelines regarding diethyl phthalate in air, water, and other media are summarized in Table 7-1. No international regulations or guidelines were located.

ATSDR has not derived an MRL for diethyl phthalate. EPA (IRIS 1994) assigned diethyl phthalate a reference dose (RfD) of 80×10^{-1} mg/kg/day with an uncertainty factor of 1,000 based on decreased growth rate, food consumption, and altered organ weights (Brown et al. 1978). EPA (IRIS 1994) has assigned diethyl phthalate a weight-of-evidence carcinogenic classification of D, which indicates that diethyl phthalate is not classifiable as to human carcinogenicity. Diethyl phthalate is on the list of chemicals appearing in “Toxic Chemicals Subject to Section 313 of the Emergency Planning and Right-to-Know Act of 1986” (EPA 1987e, 1988c). Diethyl phthalate is designated as a hazardous substance (EPA 1978, 1987d) and is subject to groundwater monitoring requirements (EPA 1987a, 1987b).

TABLE 7-1. Regulations and Guidelines Applicable to Diethyl Phthalate

Agency	Description	Information	References
<u>NATIONAL</u>			
Regulations:			
a. Air:			
OSHA	PEL TWA-skin designation	5.0 mg/m ³	OSHA 1989a (29 CFR 1910.1000); OSHA 1989b
OSHA	Meets criteria for medical records	Yes	OSHA 1987 (29 CFR 1910.20); OSHA 1988
b. Water:			
EPA ODW	Designated a toxic pollutant under section 307(a)(1) of the Federal Clean Water Act and subject to effluent guidelines	Yes	EPA 1977a (40 CFR 401.15); EPA 1977b
c. Food:			
FDA	Indirect food additive for use only as a component of adhesives	Yes	FDA 1977b (21 CFR 175.105); FDA 1977a
d. Other:			
EPA OERR	Reportable quantity	1,000 pounds	EPA 1985a (40 CFR 302.4); EPA 1985b
EPA OSW	Designated as a hazardous substance	Yes	EPA 1978 (40 CFR 116.4); EPA 1987d
	Listing as a hazardous waste: Discarded commercial chemical product off-specification species, container residues, and spill residues thereof	Yes	EPA 1980b (40 CFR 261.33); EPA 1980c
	Listing as a hazardous constituent	Yes	EPA 1988a (40 CFR 261, Appendix VIII); EPA 1988b
	Groundwater monitoring requirement	Yes	EPA 1987a (40 CFR 264, Appendix IX); EPA 1987b

TABLE 7-1. Regulations and Guidelines Applicable to Diethyl Phthalate (continued)

Agency	Description	Information	References
<u>NATIONAL</u> (Cont.)			
EPA OTS	Toxic chemical release reporting: Community Right-to-Know		EPA 1988c (40 CFR 372); EPA 1987e
Guidelines:			
a. Air:			
ACGIH	TLV TWA	5.0 mg/m ³	ACGIH 1990
NIOSH	REL TWA	5.0 mg/m ³	NIOSH 1992
b. Water:			
	Ambient water quality criteria for protection of human health:		EPA 1980a
	Ingestion of water and organisms	350 mg/L	
	Ingestion of organism only	1.8 g/L	
c. Other:			
	RfD (oral)	8.0×10 ⁻¹ mg/kg/day	IRIS 1990
	Carcinogenic classification	D ^a	
	Unit risk (air)	No data	
	Unit risk (water)	No data	
<u>STATE</u>			
Regulations and Guidelines:			
a. Air:			
	Acceptable Ambient Air Concentrations		NATICH 1991
California-Montana		0.00	
Connecticut	(8 hours)	5.0×10 ¹ µg/m ³	
Florida-Ft. Lauderdale	(8 hours)	5.0×10 ⁻² mg/m ³	
Florida-Tampa	(8 hours)	5.0×10 ⁻² mg/m ³	
Florida-Pinellas	(8 hours)	5.0×10 ¹ µg/m ³	
Florida-Pinellas	(24 hours)	1.20×10 ¹ µg/m ³	
Florida-Pinellas	(Annual)	8.00×10 ² µg/m ³	

TABLE 7-1. Regulations and Guidelines Applicable to Diethyl Phthalate (continued)

Agency	Description	Information	References
<u>STATE</u> (Cont.)			
Maine		0.00	
Maryland		0.00	
Nevada	(8 hours)	1.19×10^{-1} mg/m ³	
New York	(1 year)	1.67×10^1 µg/m ³	
North Dakota	(8 hours)	5.00×10^{-2} mg/m ³	
Wisconsin	Hazardous air contaminants with acceptable ambient air concentrations	Yes	WAC 1988
b. Water:			
Kansas	Drinking water quality guidelines and standards	350 mg/L	FSTRAC 1988
c. Other:			
Kentucky	Defined as a hazardous waste	Yes	NREPC 1988 (401 KAR 31:040)

^aD= Not classifiable as to human carcinogenicity

ACGIH = American Conference of Governmental Industrial Hygienists; EPA = Environmental Protection Agency; FDA = Food and Drug Administration; NIOSH = National Institute for Occupational Safety and Health; ODW = Office of Drinking Water; OERR = Office of Emergency and Remedial Response; OSHA = Occupational Safety and Health Administration; OSW = Office of Solid Wastes; OTS = Office of Toxic Substances; PEL = Permissible Exposure Limit; REL = Recommended Exposure Limit; RfD = Reference Dose; TLV = Threshold Limit Value; TWA = Time-Weighted