

7. REGULATIONS AND ADVISORIES

Table 7-1 summarizes national and state regulations and guidelines on human exposure to 2-nitrophenol and 4-nitrophenol.

The Clean Water Effluent Guidelines regulate 2-nitrophenol and 4-nitrophenol for the following industrial point sources: electroplating, organic chemicals production, steam electric power generation, asbestos product manufacturing, timber products processing, metal finishing, paving and roofing, ink formulating, carbon black manufacturing, and electrical and electronic components manufacturing (EPA, 1988a). In addition, 4-nitrophenol is regulated for the following industrial point sources: metal molding and casting, paint formulating, and gum and wood chemicals manufacturing (EPA 1988a).

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TABLE 7-1. Regulations and Guidelines Applicable to 2-Nitrophenol and 4-Nitrophenol

Agency	Description	Information	References
<u>NATIONAL</u>			
a. Water:			
EPA OWRS	Priority pollutant effluent limitations and pretreatment standards for BAT, NSPS and PSES		EPA 1988c (40 CFR 414)
	Maximum for any 1 day (2-nitrophenol)	231 µg/L	
	Maximum monthly average (2-nitrophenol)	65 µg/L	
	Maximum for any 1 day (4-nitrophenol)	576 µg/L	
	Maximum monthly average (4-nitrophenol)	162 µg/L	
b. Other:			
EPA OERR	Reportable quantity, final rule (2-nitrophenol and 4-nitrophenol)	100 lb	EPA 1988d (40 CFR 302.4)
EPA OSW	Designation of Hazardous Substances (mixture)	Yes	EPA 1988e (40 CFR 116.4)
	Listing as hazardous waste: Discarded commercial chemical products off-specification species, container residues, and spill residues thereof (4-nitrophenol)	Yes	EPA 1988f (40 CFR 261.33)
	Listing as Hazardous Waste Constituent (4-nitrophenol)	Yes	EPA 1988f (40 CFR 261, Appendix VIII)
EPA OTS	Toxic Chemical Release Reporting; Community Right-to-Know (2-nitrophenol and 4-nitrophenol)	Yes	EPA 1988g (40 CFR 372.65)
<u>STATE</u>			
Regulations and Guidelines:			
a. Air:	Acceptable ambient air concentrations		
New York (4-nitrophenol)		0.03 µg/m ³ (1 yr avg)	NATICH 1988
South Carolina (4-nitrophenol)		0.00 µg/m ³ (24 hrs)	NATICH 1988
b. Water:	Drinking water quality standards		
Kansas (2-nitrophenol)		290 µg/L	FSTRAC 1988
Kansas (4-nitrophenol)		290 µg/L	FSTRAC 1988
Maine (mixture)		83 µg/L	FSTRAC 1988

BAT = Best Available Technology; EPA = Environmental Protection Agency; NSPS = New Source Performance Standards; OERR = Office of Emergency and Remedial Response; OSW = Office of Solid Waste; OTS = Office of Toxic Substances; OWRS = Office of Water Regulations and Standards; PSES = Pretreatment Standards for Existing Sources