

**7. REGULATIONS AND ADVISORIES**

National and state regulations and advisories pertinent to human exposure to 1,2-diphenylhydrazine are summarized in Table 7-1. Guidance from the World Health Organization (WHO) and the International Agency for Research on Cancer (IARC) is not available.

TABLE 7-1. Regulations and Advisories Applicable to 1,2-Diphenylhydrazine

Agency	Description	Value	Reference
<u>National</u>			
Regulations:			
a. Nonspecific media:			
EPA OERR	Reportable quantity	1 pound (statutory) 10 pounds (proposed)	EPA 1987b 40 CFR 117 and 302
EPA OSW	Hazardous waste Groundwater monitoring list	Not applicable Not applicable	40 CFR 261 40 CFR 264
Guidelines:			
a. Air:			
EPA	Inhalation unit risk	$2.2 \times 10^{-4} (\mu\text{g}/\text{m}^3)^{-1}$ a	EPA 1988a
b. Water:			
EPA	Drinking water unit risk	$2.2 \times 10^{-5} (\mu\text{g}/\text{L})^{-1}$ a	EPA 1988a
EPA OWRS	Ambient water quality criteria Ingesting water and organisms Ingesting organisms only	4 ng/L, 42 ng/L, 422 ng/L <sup>a,b</sup> 56 ng/L, 560 ng/L, 5600 ng/L <sup>a,b</sup>	EPA 1980 EPA 1980
c. Other:			
EPA	Carcinogenic classification Cancer slope factor	Group B2 <sup>c</sup> $8.0 \times 10^{-1} (\text{mg}/\text{kg}/\text{day})^{-1}$	EPA 1988a
<u>State</u>			
Guidelines:			
a. Air:			
	Acceptable ambient air concentration		
Florida-Tampa		0.01 mg/m <sup>3</sup> (8 hr)	NATICH 1988
New York		3.3 μg/m <sup>3</sup> (annual)	NATICH 1988
North Dakota		BACT <sup>d</sup>	NATICH 1988
b. Water:			
	Drinking water		
Kansas		0.45 μg/L	FSTRAC 1988
Minnesota		0.45 μg/L	FSTRAC 1988

<sup>a</sup>Calculated from cancer slope factor of  $8.0 \times 10^{-1} (\text{mg}/\text{kg}/\text{day})^{-1}$ .

<sup>b</sup>Criteria corresponding to cancer risk levels of  $10^{-7}$ ,  $10^{-6}$ , and  $10^{-5}$ .

<sup>c</sup>Group B2 - Probable human carcinogen, based on sufficient evidence from animal studies.

<sup>d</sup>Best available control technology.

EPA = Environmental Protection Agency; OERR = Office of Emergency and Remedial Response; OWRS = Office of Water Regulations and Standards; OSW = Office of Solid Waste.