

## CHAPTER 7. REGULATIONS AND GUIDELINES

Pertinent international and national regulations, advisories, and guidelines regarding 1,2-diphenylhydrazine in air, water, and other media are summarized in Table 7-1. This table is not an exhaustive list, and current regulations should be verified by the appropriate regulatory agency.

ATSDR develops MRLs which are substance specific guidelines intended to serve as screening levels by ATSDR health assessors and other responders to identify contaminants and potential health effects that may be of concern at hazardous waste sites. See Section 1.3 and Appendix A for detailed information on the MRLs for 1,2-diphenylhydrazine.

**Table 7-1. Regulations and Guidelines Applicable to 1,2-Diphenylhydrazine**

Agency	Description	Information	Reference
<b>Air</b>			
EPA	RfC	Not assessed	<a href="#">IRIS 2006</a>
<b>Water &amp; Food</b>			
EPA	Drinking water standards and health advisories	Not listed	<a href="#">EPA 2012</a>
	National primary drinking water regulations	Not listed	<a href="#">EPA 2009</a>
	RfD	Not assessed	<a href="#">IRIS 2006</a>
WHO	Drinking water quality guidelines	Not listed	<a href="#">WHO 2017</a>
FDA	EAFUS	Not listed <sup>a</sup>	<a href="#">FDA 2013</a>
<b>Cancer</b>			
HHS	Carcinogenicity classification	Reasonably anticipated to be a human carcinogen	<a href="#">NTP 2016</a>
EPA	Carcinogenicity classification	B2 <sup>b</sup>	<a href="#">IRIS 2006</a>
IARC	Carcinogenicity classification	Not evaluated	<a href="#">IARC 2017</a>
<b>Occupational</b>			
OSHA	PEL (8-hour TWA) for general industry, construction, and shipyards	Not listed	<a href="#">OSHA 2016a</a> , <a href="#">2016b</a> , <a href="#">2016c</a>
NIOSH	REL (up to 10-hour TWA)	Not listed	<a href="#">NIOSH 2016</a>

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**Table 7-1. Regulations and Guidelines Applicable to 1,2-Diphenylhydrazine**

Agency	Description	Information	Reference
<b>Emergency Criteria</b>			
EPA	AEGLs-air	Not listed	<a href="#">EPA 2016</a>
AIHA	ERPGs	Not listed	<a href="#">AIHA 2015</a>
DOE	PACs-air		<a href="#">DOE 2018a</a>
	PAC-1 <sup>c</sup>	120 mg/m <sup>3</sup>	
	PAC-2 <sup>c</sup>	1,300 mg/m <sup>3</sup>	
	PAC-3 <sup>c</sup>	7,900 mg/m <sup>3</sup>	

<sup>a</sup>The EAFUS list of substances contains ingredients added directly to food that FDA has either approved as food additives or listed or affirmed as GRAS.

<sup>b</sup>B2: probable human carcinogen.

<sup>c</sup>Definitions of PAC terminology are available from DOE (2018b). PAC values are based on available 60-minute AEGL, ERPG, or TEEL values.

ACGIH = American Conference of Governmental Industrial Hygienists; AEGL = acute exposure guideline level; AIHA = American Industrial Hygiene Association; DOE = Department of Energy; EAFUS = Everything Added to Food in the United States; EPA = Environmental Protection Agency; ERPG = emergency response planning guidelines; FDA = Food and Drug Administration; GRAS = generally recognized as safe; HHS = Department of Health and Human Services; IARC = International Agency for Research on Cancer; IRIS = Integrated Risk Information System; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; PAC = Protective Action Criteria; PEL = permissible exposure limit; REL = recommended exposure limit; RfC = inhalation reference concentration; RfD = oral reference dose; TEEL = Temporary Emergency Exposure Limit; TLV = threshold limit values; TWA = time-weighted average; WHO = World Health Organization