

## 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	Value not derived	<a href="#">IRIS 2006</a>
WHO	Air quality guidelines	Not listed	<a href="#">WHO 2010</a>
<b>Water &amp; Food</b>			
EPA	Drinking water standards and health advisories	Not listed	<a href="#">EPA 2018a</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	Substances Added to Food	Not listed <sup>a</sup>	<a href="#">FDA 2020</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 listed	<a href="#">IARC 2020</a>
<b>Occupational</b>			
ACGIH	TLV (TWA)	Not listed	ACGIH 2019
OSHA	PEL (8-hour TWA) for general industry, construction, and shipyards	Not listed	OSHA <a href="#">2019a</a> , <a href="#">2019b</a> , <a href="#">2019c</a>
NIOSH	REL (up to 10-hour TWA)	Not listed	<a href="#">NIOSH 2018</a>

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Agency	Description	Information	Reference
<b>Emergency Criteria</b>			
EPA	AEGLs-air	Not listed	<a href="#">EPA 2018b</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 Substances Added to Food inventory replaces EAFUS and contains the following types of ingredients: food and color additives listed in FDA regulations, flavoring substances evaluated by FEMA or JECFA, GRAS substances listed in FDA regulations, substances approved for specific uses in food prior to September 6, 1958, substances that are listed in FDA regulations as prohibited in food, delisted color additives, and some substances "no longer FEMA GRAS".

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

<sup>c</sup>Definitions of PAC terminology are available from U.S. Department of Energy (DOE 2018b).

ACGIH = American Conference of Governmental Industrial Hygienists; AEGL = acute exposure guideline levels; DOE = Department of Energy; EAFUS = Everything Added to Food in the United States; EPA = Environmental Protection Agency; FDA = Food and Drug Administration; FEMA = Flavor and Extract Manufacturers Association of the United States; GRAS = generally recognized as safe; HHS = Department of Health and Human Services; IARC = International Agency for Research on Cancer; IRIS = Integrated Risk Information System; JECFA = Joint FAO/WHO Expert Committee on Food Additives; 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; TLV = threshold limit value; TWA = time-weighted average; WHO = World Health Organization