GLYPHOSATE 210

CHAPTER 7. REGULATIONS AND GUIDELINES

Pertinent international and national regulations, advisories, and guidelines regarding glyphosate 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 glyphosate.

	Table 7-1. Regulations and Guideline	es Applicable to	o Glyphosate		
Agency	Description	Information	Reference		
Air					
EPA	RfC	Not evaluated	IRIS 1989		
WHO	Air quality guidelines	No data	WHO 2010		
	Water & Foo	d			
EPA	Drinking water standards and health advisories		EPA 2012d		
	1-Day (10-kg child)	20 mg/L			
	10-Day (10-kg child)	20 mg/L			
	DWEL	70 mg/L			
	National primary drinking water regulations		EPA 2009b		
	Maximum Contaminant Level	0.7 mg/L			
	Maximum Contaminant Level Goal	0.7 mg/L			
	RfD	1.0 mg/kg/day ^a	EPA 2017d		
WHO	Drinking water quality guidelines	Not established ^b	WHO 2017		
FDA	EAFUS	No data ^c	FDA 2013c		
Cancer					
HHS	Carcinogenicity classification	No data	NTP 2016		
EPA	Carcinogenicity classification	Not likely to be	EPA 2017c, 2017d, 2020		
		carcinogenic to humans			
IARC	Carcinogenicity classification	Group 2Ad	IARC 2017		
Occupational					
ACGIH	TLV	No data	ACGIH 2016		
OSHA	PEL (8-hour TWA) for general industry	No data	OSHA 2016b		
	DEL (O.L., TIMA) (, L'.,, L.,, L	No data	OSHA 2016c		
	PEL (8-hour TWA) for shipyards and construction	No data	<u> </u>		

7. REGULATIONS AND GUIDELINES

	Table 7-1. Regulations and Guidelines Applicable to Glyphosate				
Agency	Description	Information	Reference		
NIOSH	REL (up to 10-hour TWA)	No data	NIOSH 2016		
Emergency Criteria					
EPA	AEGLs-air	No data	EPA 2016b		
DOE	PACs-air	No data	<u>DOE 2018</u>		

^aEPA's Office of Pesticides Program (OPP) published an interim registration review decision on glyphosate in January 2020, which finalized the Glyphosate Draft Human Health Risk Assessment in Support of Registration Review. The human health risk assessment derived an RfD of 1.0 mg/kg/day based on the same study that ATSDR used for derivation of the acute-duration MRL.

^bGlyphosate and aminomethylphosphonic acid occur in drinking water at concentrations well below those of health concern, so a guideline value was not deemed necessary.

^cThe EAFUS list of substances contains ingredients added directly to food that FDA has either approved as food additives or listed or affirmed as GRAS.

^dGroup 2A: Probably carcinogenic to humans.

ACGIH = American Conference of Governmental Industrial Hygienists; AEGL = acute exposure guideline levels; CFR = Code of Federal Regulations; DOE = Department of Energy; DWEL = drinking water equivalent level; EAFUS = Everything Added to Food in the United States; EPA = Environmental Protection Agency; FDA = Food and Drug Administration; HHS = Department of Health and Human Services; IARC = International Agency for Research on Cancer; 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 = reference dose TLV = threshold limit values; TWA = time-weighted average; WHO = World Health Organization