

## 7. REGULATIONS AND ADVISORIES

Silver is on the list of chemicals appearing in "Toxic Chemicals Subject to Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986" (EPA 1987b).

No international regulations pertaining to silver were found. The national and state regulations and guidelines regarding silver in air, water, and other media are summarized in Table 7-1.

## 7. REGULATIONS AND ADVISORIES

TABLE 7-1. Regulations and Guidelines Applicable to Silver

Agency	Description	Value	Reference
<u>National</u>			
Regulations:			
a. Air:			
OSHA	PEL TWA (metal and soluble compound)	0.01 mg/m <sup>3</sup>	OSHA 1988b (29 CFR 1910.1000)
b. Water:			
EPA ODW	Drinking water MCL <sup>a</sup>	0.05 mg/L	EPA 1987d (40 CFR 141)
	Proposed drinking water SMCL	0.09 mg/L	EPA 1989b
FDA	Permissible levels in bottled water	0.05 mg/L	FDA 1988a (21 CFR 103.35)
c. Other:			
EPA OSW	Silver nitrate designated as hazardous waste substance	No data	EPA 1987a (40 CFR 116.4)
EPA OERR	Reportable Quantity (RQ) (silver and compounds) (silver nitrate)	1000 lb 1 lb	EPA 1988b (40 CFR 302.4)
EPA OTS	Toxic chemical release reporting; community right-to-know (proposed) (silver and compounds)	No data	EPA 1987b (52 FR 21152)
OSHA	Meets proposed medical records rule	No data	OSHA 1988a (29 CFR 1910.20)
Guidelines:			
a. Air:			
ACGIH	TLV TWA: Silver metal dust	0.1 mg/m <sup>3</sup>	ACGIH 1986
	Airborne soluble silver compounds	0.01 mg/m <sup>3</sup>	
NIOSH	Recommended exposure limit	0.01 mg/m <sup>3</sup>	NIOSH 1985
NIOSH	IDLH (silver and soluble silver compounds)	0.01 mg/m <sup>3</sup>	NIOSH 1985
b. Water:			
EPA ODW	Recommended drinking water limits	0.05 mg/L	EPA 1985a
EPA OWRS	Ambient water quality criteria to protect human health ingesting water and organisms	0.05 mg/L	EPA 1980b (45 FR 79318)
c. Other:			
EPA	RfD (oral)	3x10 <sup>-3</sup> mg/kg/day	IRIS 1989
EPA ODW	Carcinogen classification	Group D <sup>b</sup>	EPA 1988a
<u>State</u>			
Regulations:			
a. Water:	Maximum concentration levels in drinking water:	0.05 mg/L	CELDS 1988
Alabama			
Alaska			
Arkansas			
Arizona			
California			
Colorado			
Connecticut			
Delaware			
District of Columbia			
Florida			
Hawaii			

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TABLE 7-1 (Continued)

Agency	Description	Value	Reference
Idaho			
Illinois			
Indiana			
Kansas			
Kentucky			
Louisiana			
Maine			
Maryland			
Massachu- setts			
Michigan			
Mississippi			
Minnesota			
Missouri			
Montana			
Nebraska			
Nevada			
New Hamp- shire			
New Mexico			
New York			
North Carolina			
North Dakota			
Ohio			
Oklahoma			
Oregon			
Pennsylv- ania			
Rhode Island			
South Carolina			
South Dakota			
Tennessee			
Texas			
Utah			
Vermont			
Virginia			
Washington			
West Virginia			
Wisconsin			
Wyoming			
	Groundwater concentration limits <sup>c</sup> :	0.05 mg/L	CELDS 1988
Colorado			
Indiana			
Kentucky			
Massachu- setts			
Nevada			
New Mexico			
New York			
Wisconsin		0.05 mg/L	WDHSS 1989

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TABLE 7-1 (Continued)

Agency	Description	Value	Reference
Arizona Mississippi New Jersey New York South Dakota Virginia	Water quality criteria <sup>d</sup>	0.05 mg/L	CELDS 1988

<sup>a</sup>The EPA has proposed to delete the MCL for silver (EPA 1989b).

<sup>b</sup>Group D. Not classifiable as to carcinogenicity in humans.

<sup>c</sup>The classification of groundwater by future use may vary between states.

<sup>d</sup>The criteria upon which this value is based may vary between states, e.g., recreation aquatic life, etc.

ACGIH = American Conference of Government Industrial Hygienists; EPA = Environmental Protection Agency; FDA = Food and Drug Administration; IDLH = Immediately Dangerous to Life or Health; MCL = Maximum Contaminant Level; NIOSH = National Institute for Occupational Safety and Health; ODW = Office of Drinking Water; OERR = Office of Emergency and Remedial Response; OSHA = Occupational Safety and Health Administration; OSW = Office of Solid Wastes; OTS = Office of Toxic Substances; OWRS = Office of Water Regulations and Standards; PEL = Permissible Exposure Limit; RfD = Reference Dose; RQ = Reportable Quantity; SMCL = Secondary Maximum Contaminant Level; TLV = Threshold Limit Value; TWA = Time-Weighted Average