

7. REGULATIONS AND ADVISORIES

National and international guidelines and state regulations pertinent to human exposure to antimony and compounds are summarized in Table 7-1.

Antimony compounds are regulated by the Clean Water Effluent Guidelines for the following industrial point sources: nonferrous metal manufacturing, steam electric, asbestos, timber products processing, mineral mining, paving and roofing, paint formulating, ink formulating, gum and wood, carbon black, and nonferrous metal forming (EPA 1988). Antimony compounds are also regulated by the Clean Air Act.

7. REGULATIONS AND ADVISORIES

TABLE 7-1. Regulations and Guidelines Applicable to Antimony and Compounds

Agency	Description	Information	References
<u>NATIONAL</u>			
Regulations:			
a. Air:			
OSHA	PEL TWA	0.5 mg antimony/m ³	OSHA 1989 (29 CFR 1910.1000)
b. Other:			
EPA OERR	Reportable quantity		
	Antimony pentafluoride	1 pound	EPA 1987 (40 CFR 300)
	Antimony pentachloride	1,000 pounds	EPA 1987 (40 CFR 117.3)
	Antimony potassium tartrate	100 pounds	
	Antimony tribromide	1,000 pounds	
	Antimony trichloride	1,000 pounds	
	Antimony trifluoride	1,000 pounds	
	Antimony trioxide	1,000 pounds	
	Antimony	5,000 pounds	EPA 1986 (40 CFR 302.4)
Guidelines:			
a. Air:			
	TLV TWA		ACGIH 1989
	Antimony and compounds	0.5 mg antimony/m ³	
	Stibine	0.51 mg/m ³	
	REL TWA		NIOSH 1990
	Antimony and compounds	0.5 mg antimony/m ³	
	Stibine	0.5 mg/m ³	
b. Water:	Ambient Water Quality Criterion	145 µg/L	EPA 1980
c. Other:	RfD (oral)	0.0004 mg antimony/kg/day	EPA 1989
<u>STATE</u>			
Regulations and Guidelines:			NATICH 1988
a. Air:	Acceptable ambient air concentrations		
Antimony:			
Connecticut		10 µg/m ³ (8-hr avg)	
Florida (Tampa)		0.005 mg/m ³ (8-hr avg)	
Kansas		1.19 µg/m ³ (annual avg)	
Kansas (Kansas City)		1.19 µg/m ³ (1-yr avg)	
Nevada		0.012 mg/m ³ (8-hr avg)	
New York		0.67 µg/m ³ (1-yr avg)	
North Dakota		0.005 mg/m ³ (8-hr avg)	
Pennsylvania (Philadelphia)		1.2 µg/m ³ (1-yr avg)	
Rhode Island		40 µg/m ³ (annual avg)	
Virginia		8 µg/m ³ (24-hr avg)	
Antimony oxide:			
Connecticut		5.0 µg/m ³ (8-hr avg)	
Florida (Tampa)		0.005 mg/m ³ (8-hr avg)	
Nevada		0.012 µg/m ³ (8-hr avg)	
New York		0.67 mg/m ³ (1-yr avg)	
North Dakota		0.005 mg/m ³ (8-hr avg)	
Virginia		8.0 µg/m ³ (24-hr avg)	

7. REGULATIONS AND ADVISORIES

TABLE 7-1 (Continued)

Agency	Description	Information	References
<u>STATE</u> (Continued)			
b. Water: Antimony Kansas	Drinking water quality standards	143 µg/L	

avg = average; EPA = Environmental Protection Agency; OERR = Office of Emergency and Remedial Response; OSHA = Occupational Safety and Health Administration; PEL = permissible exposure level; REL = recommended exposure level; RfD = reference dose; TLV = threshold limit value; TWA = time-weighted average

