

## 7. REGULATIONS AND ADVISORIES

International, national, and state regulations and guidelines pertinent to human exposure to 1,1,2-trichloroethane are summarized in Table 7-1.

1,1,2-Trichloroethane is regulated by the Clean Water Effluent Guidelines for the following industrial point sources: electroplating, organic chemicals, steam electric, asbestos, timber products processing, metal finishing, paving and roofing, paint formulating, ink formulating, gum and wood, carbon black, and electrical and electronic components (EPA 1988b).

## 7. REGULATIONS AND ADVISORIES

TABLE 7-1. Regulations and Guidelines Applicable to 1,1,2-Trichloroethane

Agency	Description	Value	Reference
International			
IARC	Cancer Classification	3 <sup>a</sup>	IARC 1987
National			
<u>Regulations</u>			
a. Air:			
OSHA	Permissible Exposure Limit	10 ppm	OSHA 1989 29 CFR 1910.1000
b. Water:			
EPA OWRS	Ambient Water Quality Criterion: For consumption of water and organisms	0.6 µg/L	45 FR 79318 EPA 1980 (11/28/80)
	For consumption of organisms only	41.8 µg/L	
c. Nonspecific media:			
EPA OERR	Reportable Quantity	100 lbs	52 FR 8140 40 CFR 117, 302 (03/16/87)
<u>Guidelines</u>			
a. Air:			
ACGIH	TWA for 8-hr workday Occupational Exposure	10 ppm	ACGIH 1988
b. Water:			
EPA	Required Monitoring in Community Water Systems		52 FR 25715 (07/08/87) 40 CFR 141, 142
EPA ODW	One Day Health Advisory	600 µg/L	EPA 1987
	Ten Day Health Advisory	400 µg/L	EPA 1987
	Long Term Health Advisory (10 kg child)	400 µg/L	EPA 1987
	Long Term Health Advisory (70 kg adult)	1000 µg/L	EPA 1987
	Lifetime Health Advisory	3 µg/L	EPA 1987
c. Nonspecific media:			
EPA	RfD for chronic oral exposure	0.004 mg/kg/day	EPA 1988a
EPA	q1* for oral exposure	0.057/mg/kg/day	EPA 1988a
	q1* for inhalation exposure	0.057/mg/kg/day	EPA 1988a verified 7/23/86
EPA	Cancer Classification	c <sup>b</sup>	EPA 1988a
EPA RCRA	Listed		52 FR 25942 (07/09/87) 40 CFR 260
EPA	Listed as a Hazardous Substance		51 FR 6541 (02/25/86) 40 CFR 261

## 7. REGULATIONS AND ADVISORIES

TABLE 7-1 (continued)

Agency	Description	Value	Reference
State			
State Agencies			
a. Air:	Acceptable ambient air concentrations		
Kentucky		4.5 mg/m <sup>3</sup> (8-hour avg)	401 KAR 63:022
b. Water:	Drinking Water quality guidelines		FSTRAC 1988
Arizona		1 µg/L	
California		100 µg/L	
Minnesota		6 µg/L	
New Mexico		10 µg/L	

<sup>a</sup>Group 3 - Not classifiable as to its carcinogenicity in humans

<sup>b</sup>Group C - Possible human carcinogen

