

7. REGULATIONS AND ADVISORIES

International (World Health Organization) guidelines for 2-butanone were not located. National and state regulations and guidelines pertinent to human exposure to 2-butanone are summarized in Table 7-1.

7. REGULATIONS AND ADVISORIES

TABLE 7-1. Regulations and Guidelines Applicable to 2-Butanone

Agency	Description	Information	References
<u>NATIONAL</u>			
Regulations:			
a. Air:			
OSHA	PEL STEL	200 ppm 300 ppm	OSHA 1989 (29 CFR 1910.0000)
b. Nonspecific media:			
EPA OERR	Reportable quantity	5,000 pounds	EPA 1985a (40 CFR 117 and 302)
Guidelines:			
a. Air:			
ACGIH	TLV TWA STEL	200 ppm 300 ppm	ACGIH 1989
NIOSH	Occupational standard	200 ppm	NIOSH 1978
b. Other:			
EPA	RfD (oral)	5×10^{-2} mg/kg/day	EPA 1989c
<u>STATE</u>			
Regulations and Guidelines:			
a. Air:			
	Acceptable ambient air concentrations		
Connecticut		11,800 $\mu\text{g}/\text{m}^3$ (8-hr avg)	NATICH 1988
Kentucky		295 mg/m^3 (8-hr avg)	State of Kentucky 1986
Florida		5.9 mg/m^3 (8-hr avg)	NATICH 1988
Massachusetts		160 $\mu\text{g}/\text{m}^3$ (24-hr avg)	NATICH 1988
North Carolina		88.5 mg/m^3 (15-min avg)	NATICH 1988
		3.7 mg/m^3 (24-hr avg)	NATICH 1988
North Dakota		5.9 mg/m^3 (8-hr avg)	NATICH 1988
		8.85 mg/m^3 (24-hr avg)	NATICH 1988
Nevada		14.048 mg/m^3 (8-hr avg)	NATICH 1988
New York		1,967 $\mu\text{g}/\text{m}^3$ (annual)	NATICH 1988
South Carolina		14,750 $\mu\text{g}/\text{m}^3$ (24-hr avg)	NATICH 1988
South Dakota		11,800 $\mu\text{g}/\text{m}^3$ (8-hr avg)	NATICH 1988
Virginia		9,800 $\mu\text{g}/\text{m}^3$ (24-hr avg)	NATICH 1988
b. Water:			
	Drinking water quality guidelines		
Arizona		170 $\mu\text{g}/\text{L}$	FSTRAC 1988
Connecticut		1,000 $\mu\text{g}/\text{L}$	FSTRAC 1988
Massachusetts		350 $\mu\text{g}/\text{L}$	MAORS 1989
Maine		750 $\mu\text{g}/\text{L}$	FSTRAC 1988
Minnesota		172 $\mu\text{g}/\text{L}$	FSTRAC 1988
	Ground water quality standards		
Vermont	Enforcement standard	170 $\mu\text{g}/\text{L}$	VDEC 1990
	Preventive action limit	85 $\mu\text{g}/\text{L}$	VDEC 1990

ACGIH = American Conference of Governmental Industrial Hygienists; EPA = Environmental Protection Agency; NIOSH = National Institute for Occupational Safety and Health; OERR = Office of Emergency and Remedial Response; OSHA = Occupational Safety and Health Administration; PEL = Permissible Exposure Limit; RfD = Reference dose; STEL = Short Term Exposure Limit; TLV = Threshold Limit Value; TWA = Time-Weighted Average