

## 7. REGULATIONS AND ADVISORIES

The international, national, and state regulations and guidelines regarding Stoddard solvent in air, water, and other media are summarized in Table 7-1.

There is no EPA reference dose (RfD) or reference concentration (RfC) for Stoddard solvent. Stoddard solvent contains volatile organic compounds (VOC) and may be regulated under the Clean Air Act guidelines for reduction of VOC emissions from solvents (Clean Air Act 1990).

Under the Hazardous Materials Transportation Act, Stoddard solvent is designated as a hazardous substance subject to special requirements for packaging, labeling, and transportation (DOT 1989a, 1989b).

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TABLE 7-1. Regulations and Guidelines Applicable to Stoddard Solvent

Agency	Description	Information	References
<b>INTERNATIONAL</b>			
IARC	Carcinogenic classification for occupational exposures in petroleum refining	Group 2A <sup>a</sup>	IARC 1989
<b>NATIONAL</b>			
Regulations:			
a. Air:			
OSHA	PEL TWA	500 ppm (2900 mg/m <sup>3</sup> ) <sup>b</sup>	OSHA 1993
b. Other:			
DOT	Hazardous Material Transportation Act: Stoddard solvent is designated as a hazardous material which is subject to requirements for packaging, shipping, and transporting.	Yes	DOT 1989a (49 CFR 172.101; Appendix A); DOT 1989b
Guidelines:			
a. Air:			
ACGIH	TLV TWA	100 ppm (525 mg/m <sup>3</sup> ) <sup>b</sup>	ACGIH 1991
AFOSH	PEL TWA	100 ppm (577 mg/m <sup>3</sup> ) <sup>c</sup>	Air Force 1989b
	STEL (15 minutes)	150 ppm (866 mg/m <sup>3</sup> ) <sup>c</sup>	Air Force 1989b
NIOSH	REL TWA	60 ppm (350 mg/m <sup>3</sup> ) <sup>b</sup>	ACGIH 1991 NIOSH 1992a
	Ceiling REL (15 minutes)	310 ppm (1,800 mg/m <sup>3</sup> ) <sup>b</sup>	ACGIH 1991 NIOSH 1992a
b. Other:			
EPA	Clean Air Act: Reduction in emissions of volatile organic compounds from solvents	Yes	Clean Air Act 1990
<b>STATE:</b>			
Regulations and Guidelines:			
a. Air:			
	Acceptable Ambient Air Concentrations		NATICH 1991
Connecticut	(8 hours)	7.00 mg/m <sup>3</sup>	
Florida-Pinellas	(8 hours)	5.25 mg/m <sup>3</sup>	
Florida-Pinellas	(24 hours)	1.26 mg/m <sup>3</sup>	
Nevada	(8 hours)	12.5 mg/m <sup>3</sup>	
North Dakota	(8 hours)	5.25 mg/m <sup>3</sup>	
Oklahoma	(24 hour)	35.0 mg/m <sup>3</sup>	
Texas	(30 minutes)	3.50 mg/m <sup>3</sup>	
Texas	(Annual)	0.35 mg/m <sup>3</sup>	
Vermont	(Annual)	12.5 mg/m <sup>3</sup>	
Virginia	(24 hours)	8.80 mg/m <sup>3</sup>	

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**TABLE 7-1. Regulations and Guidelines Applicable to Stoddard Solvent (continued)**

Agency	Description	Information	References
<u>STATE</u> (Cont.)			
Connecticut Kansas Wisconsin	Regulations on hydrocarbon emissions (petroleum distillates)	Yes	CELDS 1991
Alabama Arizona Florida Maine Maryland Michigan New Jersey South Carolina Texas Virginia Washington, D.C.	Regulations on VOC emissions	Yes	CELDS 1991
b. Water:			
Alaska	Aquatic life criterion for total hydrocarbons in marine and surface waters	15 µg/L	State of Alaska 1989
	Aquatic life criterion for aromatic hydrocarbons in marine and surface waters	10 µg/L	State of Alaska 1989
Arkansas	Average or maximum allowable quantity of oil or grease discharged into surface waters	10 mg/L (average) 15 mg/L (maximum)	State of Arkansas 1991
Florida	Average or maximum allowable quantity of oil or grease discharged into Class V waters (navigation, industrial use)	10 mg/L	State of Florida 1992
	Average or maximum allowable quantity of oil or grease discharged into all other surface waters	5 mg/L	State of Florida 1992
Massachusetts	Maximum discharge concentration of oil or grease of petroleum origin in surface waters	15 mg/L	Commonwealth of Massachusetts 1990
Nebraska	Maximum petroleum oil concentration in surface waters	10 mg/L	State of Nebraska 1990
South Dakota	Water quality standard for all petroleum products in surface waters	10 mg/L	State of South Dakota 1992
Virginia	Water quality standard for petroleum hydrocarbons in groundwater	1 mg/L	Commonwealth of Virginia 1990

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**TABLE 7-1. Regulations and Guidelines Applicable to Stoddard Solvent (continued)**

Agency	Description	Information	References
<u>STATE</u> (Cont.)			
Wyoming	Water quality standard for all surface water classes	10 mg/L	State of Wyoming 1990
c. Other:	Regulations on the transport of flammable/hazardous liquids (petroleum distillates or VOCs)	Yes	CELDS 1991
Colorado Maryland Massachusetts Wisconsin			
Maine	Regulations on the disposal of special wastes including diesel fuels	Yes	CELDS 1991
California	Regulations on leaking underground fuel tanks	Yes	CELDS 1991

<sup>a</sup>Group 2A = probably carcinogenic to humans; this classification applies only to occupational exposures in petroleum refining.

<sup>b</sup>Values were provided in both ppm and mg/m<sup>3</sup> in the reference.

<sup>c</sup>Values were provided in ppm in the reference; values in mg/m<sup>3</sup> were calculated using a conversion factor provided in the reference.

ACGIH = American Conference of Governmental Industrial Hygienists; AFOSH = Air Force Office of Safety and Health; CELDS = Computer-Environmental Legislative Data Systems; DOT = Department of Transportation; EPA = Environmental Protection Agency; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; OSHA = Occupational Safety and Health Administration; PEL = Permissible Exposure Limit; REL = Recommended Exposure Limit; STEL = Short-Term Exposure Limit; TLV = Threshold Limit Value; TWA = Time-Weighted Average; VOC = volatile organic compound