

The ACGIH clearly points out that the TLVs should not be used as a relative index of toxicity (see Figure 2-8), should not be used for air pollution work, and cannot be used to assess the impact of continuous exposures to toxicants. The TLV assumes that workers are exposed only during a normal eight-hour workday.

Every effort must be made to reduce worker exposures to toxicants to below the PEL and lower if possible.

Suggested Reading

Toxicology

Howard H. Fawcett and William S. Wood, eds., *Safety and Accident Prevention in Chemical Operations*, 2d ed. (New York: Wiley, 1982), ch. 14, 15, and 25.

N. Irving Sax, *Dangerous Properties of Industrial Materials*, 6th ed. (New York: Van Nostrand Reinhold, 1984), sec. 1.

Phillip L. Williams and James L. Burson, eds., *Industrial Toxicology: Safety and Health Applications in the Workplace* (New York: Van Nostrand Reinhold, 1985).

Probit Analysis

D. J. Finney, *Probit Analysis* (Cambridge: Cambridge University Press, 1971).

Frank P. Lees, *Loss Prevention in the Process Industries* (London: Butterworths, 1986), p. 207.

Frank P. Lees, *Loss Prevention in the Process Industries*, 2d ed. (London: Butterworths, 1996).

Threshold Limit Values

Documentation of the Threshold Limit Values and Biological Exposure Indices, 5th ed. (Cincinnati: American Conference of Governmental Industrial Hygienists, 1986).

Health Effects Assessment Summary Tables (HEAST), OERR 9200.6-303 (Cincinnati: Center for Environmental Research Information, 1991).

Integrated Risk Information System (IRIS) (Cincinnati: Center for Environmental Research Information, updated regularly).

Problems

2-1. Derive Equation 2-7.

2-2. Finney⁴ reported the data of Martin⁵ involving the toxicity of rotenone to the insect species *Macrosiphoniella sanborni*. The rotenone was applied in a medium of 0.5% saponin,

⁴D. J. Finney, *Probit Analysis* (Cambridge: Cambridge University Press, 1971), p. 20.

⁵J. T. Martin, "The Problem of the Evaluation of Rotenone-Containing Plants. VI. The Toxicity of 1-Elliptone and of Poisons Applied Jointly, with Further Observations on the Rotenone Equivalent Method of Assessing the Toxicity of Derris Root," *Ann. Appl. Biol.* (1942), 29: 69-81.

Chemical Process Safety 3rd Edition Free Solution Manual

E Durkheim



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