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LD50 AS CRITERIA FOR LISTING HAZARDOUS WASTE

SEPTEMBER 9, 1988

MEMORANDUM

SUBJECT: Use of the LD50 in the Office of Solid Waste

FROM: Priscilla Halloran
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THRU: Stephanie Irene, Chief
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TO: Gareth Lahvis
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In response to your inquiry about the Office of Solid Waste's use of the LD50, these values are used as one of the criteria for listing hazardous wastes. Specifically, it is used to designate any Acutely Hazardous Waste. The LD50 value is used unchanged, i.e. there is no extrapolation to humans.

"...in the absence of data on human toxicity, it has been shown in studies to have an oral LD50 toxicity (rat) of less than 50 milligrams per kilogram, an inhalation LC50 toxicity (rat) of less than 2 milligrams per liter, or a dermal LD50 toxicity (rabbit) of less than 200 milligrams per kilogram...(Waste listed in accordance with these criteria will be designated Acute Hazardous Waste)."
CFR 40 Part 261.11 (a)(2)

The Office of Solid Waste generally evaluated the chronic hazards, systemic and/or carcinogenic, of the constituents of concern in its various regulatory activities.