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Title 22@ Social Security

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Division 4.5@ Environmental Health Standards for the Management of Hazardous Waste

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Chapter 54@ Green Chemistry Hazard Traits, Toxicological and Environmental Endpoints and Other Relevant Data

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Article 5@ Exposure Potential Hazard Traits

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Section 69405.2@ Bioaccumulation

69405.2 Bioaccumulation

(a)

The bioaccumulation hazard trait is defined as the accumulation of a chemical substance in the tissue of organisms through any route, including respiration, ingestion, or dermal, including direct contact with contaminated water, sediment, and pore water in the sediment, or through transfer up the food chain.

(b)

Evidence for the bioaccumulation hazard trait includes but is not limited to: the identification of a substance to be bioaccumulative by an authoritative organization; studies which show bioaccumulation in human, domesticated animal, wildlife or plant tissues; inhibition of an efflux transporter; transfer of the chemical up a food web; a trophic magnification factor or biomagnification factor greater than 1 in aquatic or terrestrial systems; for organic chemicals, a bioaccumulation or bioconcentration factor greater than 1000; a log octanol-water partition coefficient greater than or equal to 4, or a log octanol-air partition coefficient greater than or equal to 5; results from bioaccumulation models indicating potential for bioaccumulation; structural similarity to other bioaccumulative chemicals.