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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 3@ 3. Other Toxicological Hazard Traits

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Section 69403.15@ Reactivity in Biological Systems

69403.15 Reactivity in Biological Systems

(a)

The reactivity in biological systems hazard trait is defined as the occurrence of rapid reactions with molecules in the body that lead to alterations in critical molecular function and ultimately adverse health outcomes.

(b)

Toxicological endpoints for reactivity in biological systems include, but are not limited to: covalent binding to or oxidation of cellular macromolecules; in vivo generation of reactive oxygen species or oxidative stress; catalytic generation of hydroxyl radicals in vivo.

(c)

Other relevant data include, but are not limited to: in vitro measurements of covalent binding to or oxidation of DNA, lipids or proteins; detection of reactive species in cell culture; structural or mechanistic similarity to other chemical substances that are reactive in biological systems.