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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 69403.4@ Epigenetic Toxicity

## **69403.4 Epigenetic Toxicity**

### **(a)**

The epigenetic toxicity hazard trait is defined as changes, at the cellular or organism level, in gene expression or gene function that do not involve changes in the DNA sequence and contribute to adverse effects in an organism following exposure to a chemical substance.

### **(b)**

Toxicological endpoints for epigenetic toxicity include, but are not limited to those indicating: toxicity in humans or animals associated with epigenetic mechanisms such as chemically induced DNA methylation, histone modification, nucleosome remodeling, or non-coding RNA. Chemically induced epigenetic endpoints may be observed in an exposed organism or its offspring.

### **(c)**

Other relevant epigenetic toxicity data include but are not limited to: in vitro or other data using biological models indicative of chemically induced epigenetic toxicity in an exposed organism or its offspring; structural or mechanistic similarity to other chemical substances that induce adverse epigenetic effects.