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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 69403.9@ Musculoskeletal Toxicity

## **69403.9 Musculoskeletal Toxicity**

### **(a)**

The musculoskeletal toxicity hazard trait is defined as the occurrence of adverse effects on the structure or function of the musculoskeletal system following exposure to a chemical substance. The musculoskeletal system includes bones, muscles, cartilage, tendons, ligaments, joints and connective tissue.

### **(b)**

Toxicological endpoints for musculoskeletal toxicity include, but are not limited to those indicating: necrosis, inflammation, discomfort or pain of the musculoskeletal system; arthritis; decreased joint movement; changes in mineral content of bone including tooth mottling; osteomalacia; osteoporosis; bone malformation or other skeletal growth disorders; abnormal bone mass or density indices; tooth loss; cell proliferation or altered ratio of musculoskeletal cells; fibromyalgia; adverse muscle or neuromuscular function.

### **(c)**

Other relevant musculoskeletal toxicity data include, but are not limited to: in vitro indicators of musculoskeletal toxicity; structural or mechanistic similarity to other chemical substances that are toxic to the musculoskeletal system.