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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 4@ 4. Environmental Hazard Traits

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Section 69404.10@ Evidence for Environmental Hazard Traits

69404.10 Evidence for Environmental Hazard Traits

(a)

For a given chemical substance, either of the following constitutes strong evidence of any of the hazard traits identified in this article: (1) An authoritative organization identifies or otherwise indicates that the chemical substance has the hazard trait by: (A) Concluding based on well-conducted scientific studies that the chemical has the hazard trait. (B) Using the hazard trait in a hazard identification, dose-response assessment, risk assessment, or other scientific evaluation. (C) Including the chemical substance on a list of substances identified as having, or being regulated based on, the hazard trait. (2) The available data from well-conducted scientific studies show that exposure to the chemical substance induces an environmental endpoint or endpoints for the hazard trait. Studies include, but are not limited to, standard aquatic and terrestrial toxicity testing as well as research-based investigations.

(1)

An authoritative organization identifies or otherwise indicates that the chemical substance has the hazard trait by: (A) Concluding based on well-conducted scientific studies that the chemical has the hazard trait. (B) Using the hazard trait in a hazard identification, dose-response assessment, risk assessment, or other scientific evaluation. (C) Including the chemical substance on a list of substances identified as having, or being regulated based on, the hazard trait.

(A)

Concluding based on well-conducted scientific studies that the chemical has the hazard trait.

(B)

Using the hazard trait in a hazard identification, dose-response assessment, risk assessment, or other scientific evaluation.

(C)

Including the chemical substance on a list of substances identified as having, or being regulated based on, the hazard trait.

(2)

The available data from well-conducted scientific studies show that exposure to the chemical substance induces an environmental endpoint or endpoints for the hazard trait. Studies include, but are not limited to, standard aquatic and terrestrial toxicity testing as well as research-based investigations.

(b)

For a given chemical substance, each of the following constitutes suggestive evidence of any of the hazard traits identified in this article: (1) An authoritative organization identifies or discusses the chemical substance as possibly having the hazard trait. (2) The available data from well-conducted scientific studies suggest exposure to the chemical substance induces a toxicological endpoint or endpoints for the hazard trait. Studies can be, but are not limited to, standard aquatic and terrestrial toxicity tests or a research-based investigation. (3) Mechanistic evidence that is suggestive of the hazard trait from cell-based, tissue-based or whole organism-based assays showing perturbations of known physiological, biochemical or other pathways involved in causing the hazard trait. (4) Strong indications of the hazard trait from structure activity relationships, including, but not limited to, those from Quantitative Structure Activity Relationship programs.

(1)

An authoritative organization identifies or discusses the chemical substance as possibly having the hazard trait.

(2)

The available data from well-conducted scientific studies suggest exposure to the chemical substance induces a toxicological endpoint or endpoints for the hazard trait. Studies can be, but are not limited to, standard aquatic and terrestrial toxicity tests or a research-based investigation.

(3)

Mechanistic evidence that is suggestive of the hazard trait from cell-based, tissue-based or whole organism-based assays showing perturbations of known physiological, biochemical or other pathways involved in causing the hazard trait.

(4)

Strong indications of the hazard trait from structure activity relationships, including, but not limited to, those from Quantitative Structure Activity Relationship programs.