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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 69404.8@ Wildlife Reproductive Impairment

## **69404.8 Wildlife Reproductive Impairment**

### **(a)**

The wildlife reproductive impairment hazard trait is defined as the occurrence of adverse effects on the reproductive system or sexual function of wildlife, including aquatic and terrestrial organisms, following exposure to a chemical substance that may reduce reproductive capacity in the environment.

### **(b)**

Environmental endpoints for wildlife reproductive impairment include, but are not limited to those indicating: adverse changes in reproductive endocrine function, sexual maturation, structure and function of reproductive organs, including intersex and imposex organs, secondary sex characteristics, behavior related to reproduction such as mating and parental care, vitellogenin production, fecundity, fertility, or offspring sex ratio observed in the laboratory or in a wild population, including aquatic and terrestrial species. Endpoints of toxicity described for the toxicological hazard traits in Article 2 sections 69402.5 and 69403.3 of this Chapter are also valid endpoints for wildlife reproductive impairment.

### **(c)**

Other relevant reproductive impairment data include but are not limited to: mechanistic or structural similarity to other chemical substances that impair wildlife reproduction; in vitro evidence of exposure related perturbations of the hypothalamic-pituitary-gonadal axis; agonism of the aryl hydrocarbon receptor;

binding or disruption of the function of the estrogen or androgen receptors;  
toxicogenomic responses associated with reproductive impairment; other relevant  
data as described for toxicological hazard traits in Article 2 section 69402.5 or  
Article 3 section 69403.3 of this Chapter; associative data from field studies  
linking exposure to a chemical substance with reductions in animal reproduction.