

US EPA ARCHIVE DOCUMENT

4-14-81

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DATA EVALUATION

1. CHEMICAL: Cypermethrin
2. FORMULATION: 91.5 % active ingredient (Technical material,) cis: trans ratio 48.8:42.7)
3. CITATION: Thompson, R.S. (1981) Investigation of the acute toxicity of PP383 to larvae of the Pacific oyster (Crassostrea gigas). Unpublished report by the Brixham Laboratory of Imperial Chemical Industries Ltd., submitted 12/28/81 by ICI Americas Inc., Wilmington, Delaware

EPA Accession No. 070562
4. REVIEWED BY: Thomas B. Johnston
Biologist, EEB/HED
5. REVIEW DATE: April 14, 1981
6. TEST TYPE: Embryo-larvae
7. REPORTED RESULTS: The reported 48-hr EC₅₀ and LC₅₀ of cypermethrin for pacific oyster larvae are both >2.27 ppm. Concentrations greater than that exceed the solubility of the test compound in seawater, even when the maximum amount of solvent is used.
8. REVIEWER'S CONCLUSIONS: This study is scientifically sound, and fulfills USEPA guideline requirements for an embryo-larvae toxicity test using a marine mollusc. With a 48-hr EC₅₀ of >2.27 ppm, cypermethrin is no more than moderately toxic to pacific oyster embryos and larvae.

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