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April 12, 1978 W. J. Adams* - T2F

Aquatic Toxicity Studies with 4 Pydraul® Materials

BN-77-409B thru 412B

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The accompanying reports contain the results obtained from studies with Fathead minnows and the following materials:

(1) Pydraul 90E BN-77-409B
(2) Pydraul 230C BN-77-410B
(3) Pydraul 312C BN-77-411B
(4) Pydraul MC BN-77-412B

The following data summarize those results:

	24-hr LC_{50}	48-hr LC_{50}	96-hr LC_{50}	No Effect Level (96-h
(1) Pydraul 90E	21.0 mg/L	11.0 mg/L	8.6 mg/L	4.6 mg/L
(2) Pydraul 230C	5.2	3.9	3.6	<2.2
(3) Pydraul 312C	8.5	7.0	6.7	4.6
(4) Pydraul MC	2.9	1.8	1.6	0.46

Based on the 96-hour LC_{50} values, these materials are considered to be moderately toxic to Fathead minnows when tested under these conditions.

When added to the test vessels, Pydraul 230C and Pydraul MC formed cloudy solutions, Pydraul 312C formed a cloudy solution with a film on the surface, and Pydraul 90E formed a white crystalline precipitate. These phenomena are due to the insolubility of the materials.

Within 96 hours of exposure, dissolved oxygen was significantly reduced in vessels containing the test materials. Thus, the fish may have been stressed because of the reduced DO concentrations.

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