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Aquatic Toxicity Studies with 4 Pydraul® materials

BN-77-409A thru 412A

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The accompanying reports contain the results obtained from studies with Rainbow Trout and the following materials:

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

The following data summarize those results:

	24-hr LC_{50}	48-hr LC_{50}	96-hr LC_{50}	(96-hrs) No Effect Level
(1) Pydraul 90E	9.7	6.0	4.6	<3.2
(2) Pydraul 230C	3.4	2.9	2.8	0.53
(3) Pydraul 312C	4.0	3.5	3.1	1.1
(4) Pydraul MC	2.4	1.8	1.8	<0.41

On the basis of the 96-hour LC_{50} values, these materials are considered to be moderately toxic to Rainbow Trout when tested under these conditions.

When added to the test vessels, Pydraul 230C, Pydraul 312C, and Pydraul MC formed cloudy solutions, 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 test materials. Thus, the fish may have been stressed because of the reduced DO concentrations.

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