CASE GS __  NAPTHALENE ACETIC ACID  PM __ / /

CHEM 056002  NAPTHALENE ACETIC ACID
BRANCH EEB  DISC____
FORMULATION 72-A112____

FICHE/MASTER ID 53____


SUBST. CLASS=

OTHER SUBJECT DESCRIPTORS

PRIM:

DIRECT REVIEW TIME = 1 hr  (MH) START DATE 2/13/81  END DATE 2/13/81

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SIGNATURE:  DATE:
CONCLUSIONS: This study is scientifically sound, but does not fulfill USEPA Guideline requirements, because it was not run on the technical grade of the toxicant. With an LC\textsubscript{50} of 14.1 ppm, NAA Acid Formulation 72-A112 is practically non-toxic to coldwater fish.

METHODS AND MATERIALS:

A. **TEST TYPE** - 96-hour Static Acute \textit{LC}_{50}

B. **TEST SPECIES** - Rainbow Trout (Salmo Gardneri)

C. **TEST PROCEDURES** - Five groups of ten fish each were exposed to nominal concentrations of 5.6, 10.0, 18.0, 32.0, or 56.0 ppm of 72-A112 for 96 hours. All toxic symptoms and mortality were recorded.

**STATISTICAL ANALYSIS:** Mortality data were analyzed according to the methods of Litchfield and Wilcoxon.

REPORTED RESULTS: The 96-hour \textit{LC}_{50} of 72-A112 to rainbow trout is calculated to be 14.1 ppm, with 95\% confidence limits of 12.6 to 15.8 ppm.

DISCUSSION:

A. **TEST PROCEDURE:**
This study followed USEPA Guidelines, except that the study was run on a formulated product instead of on the technical grade.

B. **STATISTICAL ANALYSIS:**
Mortality data were analyzed according to the methods of Litchfield and Wilcoxon.

C. **DISCUSSION/RESULTS:**
The HR \textit{LC}_{50} of 72-A112 to rainbow trout is 14.1 ppm, with 95\% confidence limits of 12.6 to 15.8 ppm.

D. **CONCLUSIONS:**
1. **CATEGORY:** Supplemental
2. **RATIONALE:** To fulfill EPA Guideline requirements, tests must be run on the technical grade of the toxicant. Tests run on formulated products cannot be used to accurately estimate the toxicity of the active ingredient.
3. **REPAIRABILITY:** This study cannot be repaired to Core.