TDMS DATA EVALUATION RECORD

CASE GS NAPHTHALENE ACETIC ACID

CHEM 056002 NAPHTHALENE ACETIC ACID

BRANCH EEB DISC____

FORMULATION 72-A112____

FICHE/MASTER ID 63____


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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APPROVED BY:
TITLE:
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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$_{50}$ of 23.7 ppm, NAA Acid Formulation 72-A112 is practically non-toxic to warmwater fish.

METHODS AND MATERIALS:

A. TEST TYPE - 96-hour Static Acute LC$_{50}$.

B. TEST SPECIES - Bluegill Sunfish (Lepomis Macrochirus)

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 LC$_{50}$ of 72-A112 to bluegill sunfish is calculated to be 23.7 ppm, with 95% confidence limits not calculable.

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 96-hr LC$_{50}$ of 72-A112 to bluegill sunfish is 23.7 ppm, with 95% confidence limits not calculable.

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. Also, the dissolved oxygen concentrations in the test vessels fell below EPA Guideline Standards.
   3. REPAIRABILITY: This study cannot be repaired to Core.