

US EPA ARCHIVE DOCUMENT

TDMS

DATA EVALUATION RECORD

Page 1 of 2

CASE GS _____

NAPTHALENE ACETIC ACID

PM _____ / /

CHEM 056002

NAPTHALENE ACETIC ACID

BRANCH EEB

DISC _____

FORMULATION 72-A112

FICHE/MASTER ID 63

CITATION: Union Carbide Environmental Services (1979) The Acute Toxicity of
72-A112 to the Bluegill Sunfish (Lepomis Macrochirus)
Rafinesque, March 2, 1979, USCE Project No. 11506-24-09.

SUBST. CLASS=

OTHER SUBJECT DESCRIPTORS

PRIM:

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

REVIEWED BY: Thomas B. Johnston
TITLE: Fisheries Biologist
ORG: EEB/HED
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SIGNATURE: *Thomas B. Johnston* DATE: 2/26/81

APPROVED BY:

TITLE:

ORG:

LOC./TEL:

SIGNATURE:

DATE:



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FICHE/MASTER ID 63

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 LC₅₀ 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 LC₅₀.
- 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 56.0ppm 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 LC₅₀ 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 LC₅₀ 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, test 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.