DATA EVALUATION REPORT

1. Chemical: Nuosept 95

2. Formulation:

Sha#	Active Ingredient	Percentage
107001	5-Hydroxymethoxymethyl-1-aza-3,7-dioxabicyclo(3.3.0)octane	24.5%
107002	5-Hydroxymethyl-1-aza-3,7-dioxabicyclo(3.3.0)octane	17.7%
107003	5-Hydroxypoly[methyleneoxy (74% C2, 21% C3, 4% C4, 1% C5)] methyl-1-aza-3,7-dioxabicyclo (3.3.0)octane	7.8%

3. Citation: Surprenant, Donald C. 1983. Acute Toxicity of Nuosept® 95 to the Water Flea (Daphnia magna). An unpublished report prepared by EG and G Bionomics for Nuodex, Inc. Data Acc#: 250533

4. Reviewed By: Daniel Rieder
Wildlife Biologist

5. Date Reviewed: 6/30/83

6. Test Type: 48-hour aquatic invertebrate with Daphnia magna. Test material was Nuosept® 95, a formulated product.

7. Results

48 hr LC50 = 77 ppm 95% C.L. = 66 to 95 ppm NEL = 7.7 ppm.

8. Reviewers Conclusions This study meets guideline requirements for an aquatic invertebrate acute toxicity test with a formulated product. It shows that Nuosept® 95 is practically non-toxic to aquatic invertebrates.

METHODS

The procedure used closely followed "Methods for acute toxicity tests with fish, macroinvertebrates, and amphibians" (US EPA, 1975). The test material was Nuosept® 95 which is 50% a.i. (see formulation).

The test was conducted in 250 ml glass beakers. There were 3 beakers per test level. Five daphnia less than 24 hrs old were tested in each beaker, 15 per level. Mortality was recorded at 24 and 48 hrs. The pH and DO measurements were taken at 0 and 48 hrs in one replicate of the control, low, medium and high test levels.

RESULTS

Nominal Concentration (ppm)	Number Tested	48-hour Mortality
Control	15	1
7.8	15	0
13	15	1
22	15	0
36	15	3
60	15	0
100	15	15

48-hour LC50 = 77 ppm 95% C.L. = 66 to 95 ppm.

No Effect Level = 7.8 ppm.

REVIEWERS EVALUATION

This study fulfills guideline requirements for a study using a formulated product. It shows that nuosept® 95 is practically non-toxic to Daphnia magna.

CONCLUSION

Category: Core for formulated product.
Rationale: This study is accepted as core because a study with the formulated product is appropriate for a pesticide which may be released directly into the aquatic environment.