DATA EVALUATION REPORT

1. Chemical: Nuosept® 95 Preservati	1.	Chemical:	Nuosept®	95	Preservativ
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2: Formulation:

Sha#	Active Ingredients	
107001 -	5-Hydroxymethoxymethyl-l-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-l-aza-3,7-dioxabicyclo (3.3.0)octane	. 7.8%

- 3. Citation: Beavers, Joann B. 1982. Acute Oral Toxicity of Nuosept® 95 to Mallard Ducks. An unpublished reported prepared by Wildlife Int. for Nuodex Inc. Data Acc# 250533.
- 4. Reviewed by: Daniel Rieder
 Wildlife Biologist
- 5. Date reviewed: 6/29/83
- 6. Test Type: Avian acute oral

 Test Species: Mallard duck

 Test Material: Nuosept 95 (formulated product)

7. Reported Results:

The acute oral LD50 is estimated to be greater than 2510 mg/kg.

8. Reviewers Conclusions:

This study is scientifically sound and fulfills the guideline requirements for an avian acute oral LD50 for the formulated product. It shows that Nuosept 95 is practically non-toxic to birds.

METHODS

Young adult mallard were tested, 10 each in a control and at 5 test levels (100, 215, 464, 1000 & 2510 mg/kg). Food was withheld 15 hours prior to testing. The test material was mixed with distilled water and intubated into crop via steel tube. Body weights were recorded on days 0,3, 7 and 14. Feed consumption was measured. Test cages were indoor (72 X 90 X 33 cm). Temperature was maintained between approximately 65°F and 80°F and relative humidity ranged between 30% and 80%. Photoperiod was 14 hrs of light toxic symptoms were recordedaily.

RESULTS

No mortality occurred at any test level. No overt symptoms of toxicity were observed at 100 mg/kg to 464 mg/kg dosage level. At 1000 mg/kg lethargy, loss of coordination and lower limb weakness were noted after dosing and through the first day. Vomiting occurred at the 2510 mg/kg level. All birds were asymptomatic by the end of day 1. At 100 mg/kg and 2510 mg/kg there was a dose responsive loss of weight for the first 3 days. Food consumption was lowered at these levels for the first 7 days. Weight gain and food consumption essentially returned to normal by the end of day 14.

AVERAGE BODY WEIGHT AND ESTIMATED FEED CONSUMPTION

<u>Material</u>	Dosage	Average Weight (g)			Estimated Feed Consumption Per Bird Per Day		
	mg/kg	Day 0	Day 3	Day 7	Day 14	0-7	g 8-14
NUOSEPT® 95	100	1120	1137	1146	1190	102	134
	215	1080	1129	1125	1147	90	114
•	464	1127	1159	1177	1196	105	132
	1000	1117	1111	1134	1168	70	119
	2510	1095	1046	1059	1091	49	111
Controls	0	1151	1194	1:181	1227	· 102	127

REVIEWERS EVALUATION

This study followed guideline protocol, it shows that Nuosept® 95 is practically non-toxic to birds. The test material was a formulated product, so this study is "core" only for this particular formulation of these three active ingredients.

· CONCLUSION

Category: Core for this formulation

Rationale: This test was core because using the formulated product is considered more applicable when the pesticide may be released directly into the aquatic environment.