Nto

## Validation Sheet

Formulation:

assumed to be 100% a.i.

Chemical Name:

San 326 10G

Validator:

Ray Matheny

Date:

3/13/79

Test Type:

Fish Acute 96 hr. LC<sub>50</sub>

Test I.D. #:

UCES Project #: 11506-16-03

Citation:

Calmbacher, C. W. 1978. Acute Toxicity of San 326 I

Lot #7801 to Bluegill Sunfish, Lepomis macroghirus

Prepared for Sandoz, Inc. by Union Carbide Environ-

mental Services. (pg. 0083 within Accession No. 097840).

Validation Category: Core

Result:

Species

Test 96 hr. LC<sub>50</sub>

Confidence Limits

Bluegill sunfish

 $0.07 \text{ mg/}\hat{1}$ 

(0.05 - 0.11 mg/l)

\* Using the Spearman-Karber Estimator

This test with the T.I. 59 Computer, resulted in an  $LC_{50}$ 

value of 0.13 with no confidence limits determined.

Validation Category Rationale: the test was conducted in accordance with

standard procedures though the identical

 ${\rm LC}_{50}$  as determined by the registrant, was

not attained (0.07 vs 0.13 mg/l).

Category Repairability/Rationale: NA

0/30

72-1

Abstract:

Standard test procedures were used:

Five groups of bluegill sunfish were tested at 0.018, 0.032, .056, 0.1 and 0.18 ppm. Mortalities were 0,0, 0,0, and 10, respectively. Test solution temperatures ranged from  $20.0^{\circ}\text{C}$  to  $21.2^{\circ}\text{C}$ . Dissolved  $0_2$  varied from 9.2 to 7.5 mg/l., while pH ranged 7.32 to 7.39.

San 326 I - 3/12/79

Bluegill Sunfish LC50 - 96 hr.

9000 data 5 9001 data 0.180,0.100,0.056,0.032,0.018 9002 data 10,10,10,10,10 9003 data 10,0,0,0,0 run

79/03/12, 13.50.18. BASIC PROGRAM A78LC50

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ែកគេកគ្គក្នុកកក។ - ០៦០	RUMBER	NUMBER	PERCENT	BINOMIAL
onc.	EXPOSED	GEAD	DEAD	PROB.(PERCENT)
	EVLASER	10	100	9.76563E-2
.18	1.0	. 0	้กั	9.76563E-2 🖁
. 1	15	0	ň	9.76563E-2
.056	10	ņ	ů N	9.76563E-2
.032	1 0	U .	0	9.76563E-2
.018	1.0	Ü	ij	7.0 CDCDC C

THE BINOMIAL TEST SHOWS THAT .1 AND .18 CAN BE USED AS STATISTICALLY SOUND CONSERVATIVE 95 PERCENT CONFIDENCE LIMITS SINCE THE ACTUAL CONFIDENCE LEVEL ASSOCIATED WITH THESE LIMITS IS 99.8047 PERCENT.

AN APPROXIMATE LC50 FOR THIS SET OF DATA IS

134164

see spearman Karber test attached -

WHEN THERE ARE LESS THAN TWO CONCENTRATIONS AT WHICH THE PERCENT DEAD IS BETWEEN 0 AND 100, NEITHER THE MOUING AVERAGE NOR THE PROBIT METHOD CAN GIVE ANY STATISTICALL SOUND RESULTS.

## Spearmon - Karber test: Bluegill Sunfish LC - 96 hr.

0.018	0.018
0.	0.
10.	10.
0.032	0.032
0.	0.
10.	10.
0.056	0.056
0.	0.
10.	10.
0.1	0.1
0.	0.
10.	10.
0.18	0.18
10.	10.
10.	10.
0. %TRM	10. %TRM
<u>0.13</u> LC50	0.13 LC50
ND CLS	NO CLS