Validation Sheet

Formulation: 95.06%

Chemical Name: Rhodia I prodione Technical

Validator: Ray Matheny

Date: 6/7/79

Test Type: Fish Acute Toxicity LC_{50}

Test I.D. #:   UCES Proj. No. 11506-48-02

Citation: Calmbacher, C.W., et al., May 31, 1978. The Acute
                       Toxicity of RP 26019 Technical Assay 95.06%.
                       Lot # 77103-01 to the Bluegill Sunfish (Lepomis
                       macrochirus). Prepared for Rhodia, Inc. Prepared by
                       Union Carbide Environmental Services, Union Carbide
                       Corp. (within Accession No. 234810, 9/1/78).

Validation Category: Core

Result:	Species	Test	Confidence Limits
	Bluegill Sunfish	Fish Acute LC_{50}: 6.3 mg/l*	(5.2 - 7.7)

                       * As determined by the Spearman-Karber
                         Estimator method

Validation Category Rationale: Using the moving average method, this test
                                was validated @ 6.2 mg/l (5.0-7.9).
                                Satisfies core data requirements.

Category Repairability/Rationale: None necessary.

Abstract: Standard test procedures were used: reconstituted
                       water has a pH of 7.29, water hardness of 46 mg/l as
                       $CaCO_3$, total alkalinity of 29 mg/l as $CaCO_3$. Five
                       concentrations and solvent control were used.
                       Concentrations were: 1.0, 1.8, 3.2, 5.6 and 10.0 mg/l.
                       Ten fish per concentration showed the mortalities at
                       the three highest levels 1, 2 and 10, respectively.
                       There were no mortalities in the control or solvent
                       control groups. The average water temperature of the
                       dilution water was 22.7 $\pm$ 0.7° C. The Do for the
                       test groups ranged from 8.6 to 1.4 mg/l. Fish exposed
                       to 1.8 mg/l and higher became irritated and exhibited
                       abnormal surfacing behavior with gulping of air. At
                       the 5.6 mg/l concentration fish showed erratic
                       swimming and dark discoloration.

Rhodia Iprodione Technical

Fish Acute Toxicity -96 hr LC_{50} : Bluegill Sunfish

U C ES Proj. No. 11506-48-02

```
 79/06/08. 12.37.50.TERMINAL:    24, P 20
 UOFM CYBER 74 NOS 1.2 (05/24-BL).
USER NUMBER: ZZZ6944,USEPA
TERMINAL:   24, P 20/TTY
RECOVER /SYSTEM: BASIC,OLD,A78LC50
READY.
9000 DATA 5
9001 DATA 10.0, 5.6, 3.2, 1.8, 1.0
9002 DATA 10,10,10,10,10
9003 DATA 10,2, 1,0,0
RUN

 79/06/08. 12.40.17.
BASIC      PROGRAM   A78LC50
```

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

CONC.	NUMBER EXPOSED	NUMBER DEAD	PERCENT DEAD	BINOMIAL PROB.(PERCENT)
10	10	10	100	9.76563E-2
5.6	10	2	20.	5.46875
3.2	10	1	10.	1.07422
1.8	10	0	0	9.76563E-2
1	10	0	0	9.76563E-2

THE BINOMIAL TEST SHOWS THAT 3.2 AND 10 CAN BE
USED AS STATISTICALLY SOUND CONSERVATIVE 95 PERCENT
CONFIDENCE LIMITS SINCE THE ACTUAL CONFIDENCE LEVEL
ASSOCIATED WITH THESE LIMITS IS 98.8281 PERCENT.

AN APPROXIMATE LC50 FOR THIS SET OF DATA IS 6.72118

--------RESULTS CALCULATED USING THE MOVING AVERAGE METHOD

SPAN	G	LC50	95 PERCENT CONFIDENCE LIMITS	
2	.167754	6.21008	5.04934	7.94656

--------RESULTS CALCULATED USING THE PROBIT METHOD

ITERATIONS	G	H	GOODNESS OF FIT PROBABILITY
9	.311605	1	.244093

SLOPE =   6.68099
95 PERCENT CONFIDENCE LIMITS = 2.95155   AND   10.4104

LC50 =   6.11927
95 PERCENT CONFIDENCE LIMITS =   4.80815   AND   7.90265

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx