TDMS. CASE GS	DATA EVALUATION RECO	DRD PM _	PAGE 1 OF/
CHEM105001	TERBUFOS		
BRANCH EEB	DISC		
FORMULATION15	% Granular		
		•	**
FICHE/MASTER ID	FEØTERØ5	_	
CITATION: USEPA. 1 (USEPA, report)	975. Report on the toxicity CBIB, Beltsville, Md., Stati	of Counter 15G to c jar test #909, 1	rainbow trout. 2/12/75, unpublished
SUBST. CLASS=			
OTHER SUBJECT DESCR PRIM:	RIPTORS		
DIRECT REVIEW TIME=	4 hrs. (MH) START	DATE 10/4/82	END DATE 10/27/82
TITLE: ORG: LOC•/TEL:	James D. Felkel Wildlife Biologist Ecological Effects Branch Crystal Mall #2, Room 111	, Hazard Evaluation 2, 703-557-3113	n Division (TS-769)
SIGNATURE:	mer D. Illk2	DATE: /2/8/82	_
TITLE: ORG: LOC/TEL:			
SIGNATURE:		DATE:	

DATA EVALUATION RECORD

- 1. Chemical: Terbufos (Shaughnessy No. 105001)
- 2. Formulation: 15% granular
- 3. <u>Citation</u>: USEPA 1975. Report on the toxicity of Counter 15G to rainbow trout. (USEPA, CRIB, Beltsville, Md. Static jar test #909, 12/12/75, unpublished report). MRID No. FEOTER05.
- 4. Reviewed By: James D. Felkel, Wildlife Biologist Ecological Effects Branch Hazard Evaluation Division (TS-769)
- 5. Date Reviewed: October 27, 1982
- 6. Test Type: Coldwater fish LC50
 - A. Test Species: Rainbow trout (Salmo gairdneri)
- 7. Reported Results: The 96-hour LC₅₀ is 68 ppb (95% C.L. of 50.19-92.14 ppb).
- 8. Reviewer's Conclusions:

This study is scientifically sound and with an IC_{50} of 59.7 (48.1-74.3) ppb indicates that Counter 15G is very highly toxic to rainbow trout. This study, if needed, meets the intent of proposed guidelines (7/10/78) for this formulation.

METHOD

Method TSD 1.206 is cited. Acetone was the diluent. Fish were from the Wytheville National Fish Hatchery and had an average weight of $0.5~\rm g$. Concentrations of $21-280~\rm ppb$, based on total formulation, were tested.

RESULTS

LC50 (with 95% C.L.)

24	hr.	•	115	(84.55	-	156.41)	daa
48	hr.		76	(59.41	_	97.44)	dag
96	hr.					92.14)	

REVIEWER'S ANALYSIS

Methods used are generally consistent with proposed guidelines (7/10/78). EPA computer analysis (attached) indicates a 96-hour LC₅₀ of 59.7(48.1-74.3) ppb (probit method). Counter 15G is thus considered very highly toxic to the rainbow trout.

CONCLUSIONS

1. Category: Core, for this formulation

2. Rationale: Study meets the intent of proposed guidelines for this formulation

3. Repairability: N/A

BUSDIT'S CORRECTION CANNOT BE USED WITH THIS DATA SET.

:.kE1	TERBUFOS RAINBO	W TROUT LC50	156	
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enc.	NUMBE R	NUMBER	PERCENT	BINOMIAL
	EXPOSED	DEAD	DEAD	PROB. (PERCENT)
230	10	10	100	0.09765625
180	10	10	100	0.09765625
120	10	10	100	0.09765625
75	10	7	70	17.1875
49	10	1	10	1.074219
.2	10	2	20	5.46875
15	10	0	0	0.09765625

THE BINOMIAL TEST SHOWS THAT 21 AND 12D CAN BE ASED AS STATISTICALLY SOUND CONSERVATIVE 95 PERCENT THE FIGURE LIMITS, BECAUSE THE ACTUAL CONFIDENCE LEVEL USSOCIATED WITH THESE LIMITS IS GREATER THAN 95 PERCENT.

AN APPROXIMATE LC50 FOR THIS SET OF DATA IS 65.66659

RESULTS CALCULATED USI SPAN G 8 0.08969	LC50	95 PERCENT CONFIDENCE LIMITS 47.295 73.32025
ESULTS CALCULATED USI STERATIONS G 10 0.18379	H	GOODNESS OF FIT PROBABILITY 0.3486665
COPE = 5.52450 PERCENT CONFIDENCE		AND 7.892909
1950 = 59.5716 SHIPERCENT CONFIDENCE I		0 74.30374
.7(0 = 35.14656 35.9ERCENT CONFIDENCE L	_IMITS = 22.02904 AND	D 44.33835