

US EPA ARCHIVE DOCUMENT

Data Validation Sheet

Formulation: Technical -

52.0% Cuprous oxide, 9.9% tributyltin methacrylate (as polymer). The solvent used was dimethyl formamide (DMF) and 38.1 % inerts.

Chemical Name: See above formulation. (Also known as Polyflo 2018).

Validator: Alvaro A. Yamhure

Date of Validation: 10/6/81

Test Type: 96-hour static LC50 on marine invertebrate.

Test I.D.: Tested conducted by EG & G Bionomics Marine Research Laboratory at Pensacola, Florida. Report No. BP-81-6-88.

Citation: Hollister, Terry A. June, 1981. Acute Toxicity of bioMet 304/CuO ( 2018 ) paint to mysid shrimp (Mysidopsis bahia).

Validation Category: Acceptable (or core under present EEB rating system).

Results:

<u>Time (hours)</u>	<u>Test Species</u>	<u>Test Results (ppb)</u>	<u>95% Confidence Limits (ppb)</u>
24	Mysidopsis bahia	>100	-
48	"	47	11-160
72	"	35	25-50
96	"	12	6-25

Note: See attached copy of EPA's computer data validation sheet. EPA's results were within the same C.L. than the applicant's.

Acute Toxicity of M & T Chemicals Inc. Polyflo 2018  
to the Mysid shrimp (M. bahia). (Report No. BP-81-6-88)

CONC.	NUMBER EXPOSED	NUMBER DEAD	PERCENT DEAD	BINOMIAL PROB. (PERCENT)
.00	10	10	100	0.09765625
50	10	10	100	0.09765625
25	10	10	100	0.09765625
12	10	4	40	37.69531
6	10	0	0	0.09765625

THE BINOMIAL TEST SHOWS THAT 6 AND 25 CAN BE USED AS STATISTICALLY SOUND CONSERVATIVE 95 PERCENT CONFIDENCE LIMITS; BECAUSE THE ACTUAL CONFIDENCE LEVEL ASSOCIATED WITH THESE LIMITS IS GREATER THAN 95 PERCENT.

AN APPROXIMATE LG50 FOR THIS SET OF DATA IS 13.17046

WHEN THERE ARE LESS THAN TWO CONCENTRATIONS AT WHICH THE PERCENT DEAD IS BETWEEN 10 AND 100, NEITHER THE MOVING AVERAGE NOR THE PROBIT METHOD CAN GIVE ANY STATISTICALLY SOUND RESULTS.

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