

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: 10/3/81

Test Type: 96 hour static LC50 for estuarine/marine fish.

Test I.D.: Test was conducted by EG & G Bionomics Marine Research Laboratory of Pensacola, Florida.

Report No. BP-81-6-93.

Citation: Ward, Scott G. June 9, 1981.

Acute toxicity of bioMet 304/CuO paint to sheepshead minnow (Cyprinodon variegatus).

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	Sheepshead minnow	320	220-460
48	" "	320	270-390
72	" "	200	170-250
96	" "	160	110-220

Note: See attached copy of EPA's computer data validation sheet.

Acute Toxicity of M & T Chemicals Inc. Polyflo 2018
to the Sheepshead minnow (C. variegatus).
(Report No. BP-81-6-93)

NC.	NUMBER EXPOSED	NUMBER DEAD	PERCENT DEAD	BINOMIAL PROB. (PERCENT)
50	10	10	100	0.09765625
320	10	10	100	0.09765625
220	10	10	100	0.09765625
160	10	7	70	17.1875
110	10	0	0	0.09765625
80	10	0	0	0.09765625

THE BINOMIAL TEST SHOWS THAT 110 AND 220 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 146.8836.

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