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103.1.4 Aquatic Invertebrate

DATA REVIEW NUMBER: ES K1

TEST: Aquatic Invertebrate Acute Toxicity

SPECIES: Water Flea (Daphnia magna)RESULTS: 48 hour LC_{50} = 151 ppt (120-188 ppt)
95% C.L.96 hour LC_{50} = 112 ppt (76-164 ppt)
95% C.L.

No discernible effect level = 84 ppt.

Statistical analysis by Finney Probit for
96 hour LC_{50} is given below.

5.882	M	0.138	LC_{50}	0.229	LC_{90}	0.064	LC_{10}
10.051	YINT	0.121	LOCL	0.182	LOCL	0.066	LOCL
1.479	LW M	0.158	UPCL	0.287	UPCL	0.106	UPCL
6.919	χ^2						

CHEMICAL: FMC 33297 3.2 EC 38.4% a.i.

TITLE: Acute Toxicity of FMC 33297 3.2 EC to
Water Flea (Daphnia magna)

ACCESSION NO: 096699

STUDY DATE: December 1975

RESEARCHER: Bentley, Robert E.
E.G.&G Bionomics
Aquatic Toxicology Lab.
Wareham, Mass.

REGISTRANT: FMC Corp.

VALIDATION CATEGORY: Core

CATEGORY REPAIRABILITY: N.A. The statistical
analysis for the 96 hour
 LC_{50} can be used in its present form
because mortality did not
occur in the control. The 96 hour LC_{50}

①

is considered representative of
daphnia sensitivity to permethrin.

VALIDATOR: Tom O'Brien - 1/11/78

②
Approved Serial
Jue
9/2/81
R

upper dose level
eliminated
Furney Probit
Daphnia Magna
48 hr LC50
EG & G Bionomics
Dec 1975
FMC 33297 3.2EC
38.4% A.I.

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O'Brien
1/11/78

O'Brien
1/11/78

O'Brien
1/11/78

0.084
C.
15.

0.084
C.
15.

0.084
1.
15.

0.109
1.
15.

0.109
1.
15.

0.109
7.
15.

0.146
3.
15.

0.146
3.
15.

0.146
5.
15.

0.196
10.
15.

0.196
10.
15.

0.196
12.
15.

0.261
15.
15.

0.261
15.
15.

0.261
15.
15.

χ^2 3df = 7.81

9.739 M
12.467 YINT
1.267 LW M
1.801 CHI²

0.171 LD50
0.155 LDCL
0.189 UPCL

0.126 LD10
0.109 LDCL
0.147 UPCL

0.232 LD90
0.198 LDCL
0.271 UPCL

0.365
14.
15.

χ^2 4df = 9.49

7.475 M
10.617 YINT
1.361 LW M
7.515 CHI²

0.177 LD50
0.158 LDCL
0.199 UPCL

0.119 LD10
0.100 LDCL
0.142 UPCL

0.263 LD90
0.220 LDCL
0.315 UPCL

χ^2 3df 7.81

5.882 M
10.051 YINT
1.479 LW M
6.919 CHI²

0.138 LD50
0.121 LDCL
0.158 UPCL

0.084 LD10
0.066 LDCL
0.106 UPCL

0.229 LD90
0.182 LDCL
0.287 UPCL

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