

103.1.4 Aquatic Invertebrate

DATA REVIEW NUMBER: ES H3

TEST: Aquatic Invertebrate Acute Toxicity

SPECIES: Daphnia (Daphnia magna)

RESULTS: 24 hour $LC_{50} = 2.21$ ppb (20.1-24.3) ppb 95% C.L.

48 hour $LC_{50} = 7.2$ ppb (5.8-8.9) ppb 95% C.L.

The observed 48 hour NO effect is < 1.8 ~~ug~~g/l. (ppb). This analysis by Spearman Karber. Below is analysis by Finney Probit by this section which gave comparable results for 96 hour LC_{50} . χ^2 3df = 7.81.

3.318	M	7.164	LD50	2.943	LD10	17.439	LD90
2.163	YINT	5.761	LOCL	2.092	LOCL	11.939	LOCL
2.002	LW M	8.877	UPCL	4.139	UPCL	25.474	UPCL
1.778	CHI ²						

CHEMICAL: FMC 33297 Technical (95.7% A.I.)

TITLE: Acute Toxicity of FMC 33297 Act 29.11, .12 to Bluegill Sunfish (Lepomis macrochirus) Rafinesque and the Water Flea (Daphnia magna) Straus,

ACCESSION NO: 096699

STUDY DATE: June 21, 1976

RESEARCHER: Aquatic Environmental Sciences
Union Carbide Corporation
Tarrytown, New York

REGISTRANT: FMC Corporation

VALIDATION CATEGORY: Core

CATEGORY REPAIRABILITY: NA

VALIDATOR: Tom O'Brien 1/16/78

48 hr LC₅₀

Daphnia Magna

FMC 33297 ACT 29.16,

12 - (% M.I. ?)

Augustus Env Sciences

Union Carbide Corp

June 21, 1976

1.8

1.

2C.

3.2

1.

2C.

5.6

8.

2C.

1C.

14.

2C.

O'Brien 1/16/78

18.

18.

2C.

Furney Probit
chi² = 7.81

3.318

M

2.163

YINT

2.002

LW M

1.778

CHI²

7.164

LD50

5.781

LDCL

8.877

UPCL

2.943

LD10

2.092

LDCL

4.139

UPCL

17.439

LD90

11.939

LDCL

25.474

UPCL