1/16/78

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~~ 22.1 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 µg/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}. Chi^2 3df = 7.81.

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

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

1

48 hr LC_{50}
Daphnia Magna
FMC 53297 Act 29.11,
12 - (% A.I. ?)
Aquatic Env Science
Union Carbide Corp
June 21, 1976

O'Brien 1/16/78

1.8
1.
2C.

3.2
1.
2C.

5.6
E.
2C.

1C.
14.
2C.

1E.
1E.
2C.

Finney Probit
$chi^2 = 7.81$

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