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MRID 00031150
00043665
00033309

DATA EVALUATION REPORT

1. CHEMICAL: Simazine

2. FORMULATION: Technical

   Shaughnessy Number: 080807

3. CITATION: Sleight, B.H., III (1971) Acute Toxicity of some Ciba-Geigy Experimental Chemicals to Fathead Minnows (*Pimephales promelas*). Unpublished study received January 16, 1974, prepared by Bionomics, Inc. Acc #092100.

4. REVIEWER: Daniel Rieder
   Wildlife Biologist
   EEB/HED

5. REVIEW DATE: 7/18/83

6. TEST TYPE: 96-hour fish toxicity

   A. Species: Fathead minnows

   B. Material: Multiple chemicals

7. RESULTS: Bioassay Results[a]

Compound	TL_{50}-milligrams active ingredient/liter (ppm)		No effect level
	24-hour	96-hour	
Ametryne	17.0(15.0-21.0)[b]	5.7 (2.8-11.7)[b]	1.0
GS-11354	37.0	27.7(23.0-33.5)	15.0
Atrazine	34.0(24.0-46.0)	15.0(11.0-20.5)	5.0
GS-28279	100	36.3(30.0-43.7)	20.0
GS-34048	100	100	100.0
Simazine	16.5(8.2-24.0)	6.4(4.8-8.7)	2.5
GS-17791	100.0	100.0	100.0
GS-14260	6.2(5.4-7.3)	2.9(2.2-3.9)	1.0

2008072

Compound	TL_{50}-milligrams active ingredient/liter (ppm)		No effect level
	24-hour	96-hour	
GS-28260	87.0	83.1(64.7-107.0)	65.0
GS-13529	10.0	4.3(2.9-7.9)	2.5
GS-26379	35.0(30.0-40.0)	28.5(19.5-41.6)	20.0

[a] Bioassays conducted at 18°C, average weight of fathead minnows 1.5 grams.

[b] 95% confidence interval.

* 96-hour TL_{50} p,p'-DDT = .017 m/liter.

8. REVIEWER'S CONCLUSION: The study does not fulfill guideline requirements for a 96-hour acute toxicity test with a warmwater species. It shows simazine to be slightly toxic to fish. Procedures are generally consistent with the "Fish-Pesticide Acute Toxicity Test Method" prepared by the Animal Biology Section of the Pesticides Regulation Division, USDA and the "Fish Bioassay Procedure" in 1970 edition of Standard Methods (USPHA). DO ranged from 8.1 mg/l at beginning to a low of 5.6 mg/l at 96 hours. No mortality data was provided, nor were concentration levels given.

Category: Supplemental

Rationale: The test procedure does not meet guideline requirements but provides useful supplemental information. No mortality data was provided and concentration levels were not provided

Repairable: This study could be repaired to core if the missing information was provided.

CASE GS0070 SIMAZINE PM 04/07/82

CHEM 080807 Simazine (2-Chloro-4,6-bis(ethylamino)

BRANCH EEB DISC 40 TOPIC 05103043

FORMULATION 00 - ACTIVE INGREDIENT

FICHE/MASTER ID 00033309 CONTENT CAT 01

Sleight, B.H., III (1971) Bioassay Report: Acute Toxicity of Some Ciba-Geigy Experimental Chemicals to Fathead Minnows (‡"Pime-‡"phales_promelas"‡. (Unpublished study received May 16, 1973 under 1769-234; prepared by Bionomics, Inc., submitted by NCH Corp., National Chemsearch Div., Irving, Tex.; CDL:221976-N)

SUBST. CLASS = S.

DIRECT RVW TIME = (MH) START-DATE END DATE

REVIEWED BY: Daniel Rieder
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SIGNATURE: Daniel Rieder DATE: 7/29/83

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LOC/TEL:

SIGNATURE: DATE:

duplicate of 00031150 and 00043665

CASE GS0070 SIMAZINE PM 04/07/82

CHEM 080807 Simazine (2-Chloro-4,6-bis(ethylamino)

BRANCH EEB DISC 40 TOPIC 05103043

FORMULATION 00 - ACTIVE INGREDIENT

FICHE/MASTER ID 00031150 CONTENT CAT 01

Sleight, B.H., III (1971) Acute Toxicity of Some Ciba-Geigy Experimental Chemicals to Fathead Minnows (‡~Pimephales promelas~‡). (Unpublished study received Jan 16, 1974 under 1F1154; prepared by Bionomics, Inc., submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:092100-W)

SUBST. CLASS = S.

DIRECT RVW TIME = (MH) START-DATE END DATE

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CASE GS0070 SIMAZINE PM 04/07/82

CHEM 080807 Simazine (2-Chloro-4,6-bis(ethylamino)

BRANCH EEB DISC 40 TOPIC 05103043

FORMULATION 00 - ACTIVE INGREDIENT

FICHE/MASTER ID 00043665 CONTENT CAT 01

Macek, K.J.; Sleight, B.H., III (1971) Bioassay Report: Acute Toxicity of Some Ciba-Geigy Experimental Chemicals to Fathead Minnows (‡"Pimephales promelas"‡). (Unpublished study received Apr 27, 1977 under 100-541; prepared by Bionomics, Inc., submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:229607-S)

SUBST. CLASS = S.

OTHER SUBJECT DESCRIPTORS
SEC: EEB -40-05103543

DIRECT RVW TIME = (MH) START-DATE END DATE

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SIGNATURE: Daniel Rieder DATE: 7/29/83

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