2-10-82

DATE: February 10, 1982

003139

SUBJECT: EPA File Symbol: 476-EENI
Sutan + 1 Atrazine 4.4F

FROM: Deloris F. Graham 2/11/82
FHB/TSS 2/12/82

TO: Robert Taylor
Product Manager (25)

Applicant: Stauffer Chemical Company
1260 South 47th Street
Richmond, California 94804

Active Ingredient:
S-ethyl diisobutylthiocarbamate....................38.00%
Atrazine: 2-chloro-4-(ethylamino)-6-
(isopropylamino)-s-triazine........................12.35%
Related triazines.................................. 0.65%
Inert Ingredients..................................48.00%

Background:

Submitted Acute Oral, Acute Dermal, Eye and Skin Irritation studies. Studies conducted by Stauffer Chemical Company. Data under accession number 246498. Combined Cite-all and alternate method of support.

Recommendations:

1. FHB/TSS finds these acceptable to support conditional registration of this product.

2. For future submissions please note:

   a. In the Eye Irritation Study individual scoring must be submitted for each animal.

   b. In the Primary Dermal Irritation Study, four sites (2 abraded and 2 intact) per animal.

3. The appropriate signal word is DANGER.
   ... inhalation study was not submitted

Label:

1. Under the heading "Hazards to Humans and Domestic Animals" the eye statement must be revised to read, "Corrosive, causes irreversible eye damage."

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EPA FORM 1320-6 (REV 3-76)

2. The statement "Keep out of lakes, ponds and streams" must be revised to read "Do not apply directly to lakes, streams or ponds."

3. Storage and disposal statements must appear on label in Directions for Use under the subheading "Storage and Disposal."

Also note: The Ingredients statement only adds up to 97% Check label.

Review:

1. Acute Oral Toxicity Study in Male Rats: Stauffer Chemical Company; Laboratory Report # T-10647; December 22, 1981.

Procedure:

3 groups consisting of ten male Sprague-Dawley rats each received one of the following doses: 3000, 3800, 5000 mg/kg. Observations were made daily for 14 days. Necropsy performed on all animals.

Results:

At 5000 mg/kg one of ten male rats died within 24 hours of administration of the test material. No mortalities at 3000 and 3800 mg/kg. Toxic signs included mild to severe depression, ptosis, ruffled fur, and red facial stains. Necropsy of the animal which died during test revealed yellow fluid in the intestines. All other animals normal at necropsy. LD_{50} greater than 5 g/kg.

Study Classification: Core Guideline Data

Toxicity Category: IV - CAUTION

2. Acute Oral Toxicity in Female Rats: Stauffer Chemical Company; Lab Report # T-10647; December 22, 1981.

Procedure:

A group of 10 female rats received 5000 mg/kg of the test material. 3 groups consisting of 20 female rats each received one of the following doses: 4027 and 3800 and 3000 mg/kg. A group of 10 female rats consisting of 2400 mg/kg. Observations made daily for 14 days. Necropsy performed on all animals.

Results:

At 2400 mg/kg, 2/10 female rats died; at 3000 mg/kg no mortalities; at 3800 mg/kg 11/20 female rats died; at 4027 mg/kg 9/20 female rats died; at 5000 mg/kg, 8/10 female rats. Toxic signs included severe depression; wet, ruffled and unkempt fur; prostration; ataxia; red facial stains; extreme ptosis; slight tremors; salivation; mild diarrhea. Necropsy revealed reddish yellow fluid in the intestines; reddened lungs; black livers and spleens on the area of contact with the stomach and GI tract; yellow-green

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fluid in the intestines; light-colored mottling of the liver. LD_{50} was 3650 mg/kg with confidence limits between 3192 and 4174 mg/kg.

Study Classification: Core Guideline Data

Toxicity Category: III - CAUTION

3. Acute Dermal Toxicity Study: Stauffer Chemical Company; Lab. report # T-10647; December 22, 1981.

Procedure:

5 M and 5 F rabbits received 2000 mg/kg of the test material at abraded and intact skin sites under occlusive wrap for 24 hour exposure. 2 M and 2 F rabbits were used as a control and treated in similar manner except no test material was used. Observations made daily for 14 days. Necropsy performed on all animals.

Results:

One out of 10 rabbits died. Moderate to severe erythema and edema present. Dose site appeared green in color. No abnormalities at necropsy. No dermal effects or abnormalities at necropsy in control.

Study Classification: Core Guideline Data

Toxicity Category: III - CAUTION

4. Eye Irritation Study: Stauffer Chemical Company; Lab. report # T-10647; December 22, 1981.

Procedure:

Nine rabbits received a 0.1 ml of the test material in one eye each. Twenty to thirty seconds post treatment ~~the~~ eyes of three of the rabbits were washed. Observations made at 24, 48, and 72 hours, and at 4 and 7 days.

Results:

6/6 of unwashed group and 2/3 of the washed group showed moderate to severe opacity, moderate to severe iritis and mild to severe conjunctival irritation. One washed eye showed only mild conjunctival irritation. All irritation was reversible by day 14 in 3 of 3 washed eyes and 4 of 6 washed eyes. At day 28, 1/6 showed mild corneal opacity.

Study Classification: Core Minimum Data. Individual Scoring must be submitted for each animal.

Toxicity Category: I - DANGER

5. Primary Dermal Irritation Study: Stauffer Chemical Company; Lab. report # T-10647; December 22, 1981.

Procedure:

Six rabbits received 0.5 ml of the test material at abraded and intact skin sites under occlusive wrap for 24 hours exposure. Observations made at 24 and 72 hours.

Results:

6/6 had very slight erythema (6/6=1) and 3/6 edema (3/6=1). At 72 hours, 6/6 very slight erythema (6/6=1) and 3/6 edema (3/6=1).

Study Classification:

Core Minimum Data. 4 sites (2 abraded and 2 intact) per animal.

Toxicity Category: IV - CAUTION

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Butylate toxicology review

Page _____ is not included in this copy.

Pages 5 through 16 are not included in this copy.

The material not included contains the following type of information:

___ Identity of product inert ingredients

___ Identity of product impurities

___ Description of the product manufacturing process

___ Description of product quality control procedures

___ Identity of the source of product ingredients

___ Sales or other commercial/financial information

X A draft product label

___ The product confidential statement of formula

___ Information about a pending registration action

___ FIFRA registration data

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