

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460





001214

DATE:

September 24, 1981

SUBJECT:

Gordon's Trimec® 450 Herbicide EPA Registration No. 2217-624

FROM:

Sherell A. Sterling Min a St. 10/8/8/ FHB/TSS

TO:

Richard Mountfort

Product Manager (23)

Applicant:

PBI/Gordon Corporation 300 South Third Street

P. O. Box 2276

Kansas City, KS 66110

Active Ingredient:

2,4-D-Dimethylamine salt 23.12% MCPP-dimethylamine salt 24.70% Dicamba-dimethylamine sals..... 6.18% Inert Ingredients 46.00%

Background: The registrant is requesting a change in signal word from "DANGER" to "WARNING." In support of this, 37 eye studies were submitted and/or referenced for review.

Recommendations:

- The following formulations are considered substantially similar to Trimec 450 Herbicide: 823, 881, EH 600, and EH 599 (see reviews 9, 14, 15, and 16). For each of these formulations, the eye irritation toxicity category is Tox. CAT. I, with corneal opacity through day 21.
- Based on the Eye Irritation studies submitted, the appropriate signal word for this product remains "DANGER."

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1. Rabbit Eye Irritation; Stillmeadow #1528-80; February 20, 1980; Acc. No. 245537 (2217-543, 5/7/80)

Procedure: 0.1 ml of "Fairway C-881 B-0129 1-3-80" was applied into one eye of each of 9 New Zealand white rabbits. Three rabbits had the treated eye washed with room temperature tap water for 1 minute beginning 30 seconds after treatment; 6 remaining eyes were treated and unwashed. Scoring at 1, 24, 48, 72 hours; 4, 7, 10, 13, 16, 19, and 21 days.

Results: At 24 hours, unwashed eyes showed corneal opacity (2/6=5, 1/6=10, 1/6=20, 1/6=30) in 5/6; iris irritation in 6/6=10; conjunctival redness in 3/6=2, 3/6=3; chemosis in 5/6=4, 1/6=3; discharge in 5/6=2, 1/6=3; all showed necrosis. At 7 days, corneal opacity still observed in 5/6 eyes (2/6=5, 1/6=10, 1/6=20, 1/6=40); iris irritation in 4/6=10, 2/6=5; redness and chemosis in 6/6 eyes; discharge in 5/6; necrosis noted in 5/6. At 21 days, corneal opacity in 5/6 (1/6=10, 1/6=20, 2/6=30, 1/6=45); iris irritation and redness in 5/6 eyes; chemosis in 6/6 and discharge in 3/6 eyes. Symptoms observed also included pupil constriction, invasion of cornea by blood vessels, swollen cornea, corneal stippling, and vocalization upon instillation.

The washed eyes at 24 hours showed corneal opacity in 2/3 eyes (1/3=5, 1/3=40); iris irritation in 2/3=10, 1/3=5; conjunctival redness in 1/3=2, 2/3=3; chemosis in 2/3=3, 1/3=4; discharge in 3/3=2; necrosis in all animals. At 7 days, corneal opacity in 2/3=20; iris irritation, redness, and chemosis in 3/3 eyes; discharge in 2/3. By day 21, corneal opacity reduced to 1/3=5; redness and discharge observed in 1/3 each, chemosis in 2/3. Also observed: stippling, pupils constricted; apparent invasion of cornea by blood vessels.

Study Classification: Core Guideline Data.

Toxicity Category: I - DANGER.

2. Rabbit Eye Irritation; Stillmeadow Project #1376-79; October 17, 1979. (2217-597; 1/21/80)

Procedure: 100 mg of untreated vermiculite was applied into one eye of each 9 New Zealand white rabbits. Three rabbits had the treated eye washed for 1 minute at 30 seconds post-treatment with room temperature deionized water; remaining 6 treated eyes were not irrigated. Scoring at 1, 24, 48, 72 hours, 4 and 7 days.

Results: At 24 hours, no corneal opacity, iris irritation, or discharge observed in either group. The unwashed eye group showed 3/6 with redness (3/6=1) and 2/6 in the washed eye group showed redness (2/6=1); 6/6 unwashed eyes with chemosis (5/6=1, 1/6=2) and 3/3 in the washed eye group with chemosis (3/6=1). All appeared normal by 72 hours.

Study Classification: Core Guideline Data. Since the test substance was not EH594, this study cannot be used in support of EH594 formulation.

Toxicity Category: III - CAUTION. The toxicity category, as determined in this study, is for untreated vermiculite and not EH594.

3. Rabbit Eye Irritation; Stillmeadow #1376-79; October 17, 1979; Acc. No. 243058 (2217-AUN; 12/9/80)

Procedure: Nine New Zealand white rabbits each received 100 mg of untreated vermiculite in one eye. Thirty seconds after treatment, the treated eye of 3 animals was washed with deionized water for one minute. Scoring at 1, 24, 48, 72 hours; 4 and 7 days.

Results: In the unwashed eyes at 24 hours, the only irritation observed was redness in 3/6=1; chemosis in 5/6=1, 1/6=2. All irritation in unwashed eyes was clear by 72 hours. Washed eyes at 24 hours showed only redness in 2/3=1 and chemosis in 3/3=1. By 48 hours, all eyes were clear.

Study Classification: Core Guideline Data.

Toxicity Category: IV - CAUTION.

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4. Rabbit Eye Irritation; Stillmeadow #1336-79; October 15, 1979; Acc. No. 243058 (2217-AUN; 12/9/80)

Procedure: Nine New Zealand white rabbits each received 100 mg of "DMB #2" in one eye. Subsequent to treatment, 3 of the eyes were rinsed for one minute with room temperature tap water. Scoring was at 1, 24, 48, 72 hours and 4, 7, 10, 13, 16, 19, 21 days.

Results: The unwashed eyes at 24 hours showed iris irritation in 2/6=5, 1/6=10; redness in 6/6=2; chemosis in 5/6=3, 1/6=4; discharge in 2/6=1, 4/6=2; stippling in 6/6 eyes. By day 7, unwashed eyes showed corneal opacity in 1/6=5; iris irritation in 1/6=5; redness in 2/6=1, 1/6=2, 1/6=3; chemosis in 3/6=1, 1/6=2, 2/6=3; discharge in 2/6=2. At day 21, corneal opacity in 2/6=5; conjunctival redness in 1/6=1; chemosis in 1/6=1, 1/6=2; discharge in 1/6=2.

Washed eyes at 24 hours were clear except for chemosis in 1/3=1. All eyes were clear by 72 hours.

Study Classification: Core Guideline Data.

Toxicity Category: III - CAUTION. The only corneal opacity seen was very mild in only 2 animals, developing 7 days post-treatment.

5. Primary Eye Irritation Studies in Rabbits: EH588; MRI Project #4823-B-(1); November 12, 1979. (2217-597; 1/21/80)

Procedure: 0.1 ml of EH588 was applied into one eye of each of 6 New Zealand white rabbits; no irritation. Scoring at 24, 48, 72 hours, 4 and 7 days.

Results: At instillation, 6/6 rabbits vocalized. At 24 hours, 6/6 showed $\overline{\text{corneal}}$ opacity (3/6=20, 3/6=40); 6/6 exhibited eye irritation (2/6=2, 4/6=1), 6/6 with conjunctival erythema (1/6=1, 3/6=2, 2/6=3); 6/6 with swelling (1/6=1, 1/6=2, 2/6=3, 2/6=4); 6/6 with discharge (4/6=2, 2/6=3). Fluorescein testing showed 6/6 had corneal involvement (2/6=5, 1/6=30, 2/6=45, 1/6=60). At 7 days, 1/6 with corneal opacity (1/6=20); 1/6 showed iris irritation (1/6=1); 1/6 exhibited conjunctival erythema (1/6=1); 1/6 showed swelling (1/6=2); and 1/6 with discharge (1/6=1). Fluorescein testing revealed 1/6 with corneal involvement (1/6=40) at 7 days.

Study Classification: Core Minimum Data. An eyewash group was not tested. Since the test substance was not EH594, this study cannot be used in support of the EH594 formulation.

Toxicity Category: II - WARNING. The toxicity category, as determined in this study, is for EH588 and not EH594.

6. Primary Eye Irritation Studies in Rabbits: EH589; MRI Project #4823-B-(1); November 12, 1979. (2217-597, 1/21/80)

Procedure: 0.1 ml of EH589 was applied into one eye of each of 6 New Zealand white rabbits; no irrigation. Scoring at 24, 48, 72 hours, 4 and 7 days.

Results: At 24 hours, 4/6 showed corneal opacity (1/6=20, 3/6=40); 4/6 exhibited iris irritation (3/6=1, 1/6=2); 5/6 exhibited conjunctival erythema (2/6=1, 3/6=2); 5/6 with swelling (2/6=1, 3/6=2); and 5/6 with discharge (1/6=1, 3/6=2, 1/6=3). Fluorescein testing showed 4/6 with corneal involvement (2/6=5, 1/6=45, 1/6=80).

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Study Classification: Core Minimum Data. An eyewash group was not tested. Since the test substance was not EH594, this study cannot be used in support of the EH594 formulation.

Toxicity Category: (IV) CAUTION. The toxicity category, as determined in this study, is for EH589 and not EH594.

7. Primary Eye Irritation Studies in Rabbits: EH596; MRI Project #4823-B-(1); November 12, 1979. (2217-597, 1/21/80)

Procedure: 0.1 ml of EH596 was applied into one eye of each of 6 New Zealand white rabbits; no irrigation. Scoring at 24, 48, 72 hours, 4 and 7 days.

Results: At 24 hours, 5/6 showed corneal opacity (4/6=20, 1/6=40); 5/6 with iris irritation (5/6=1); 5/6 with conjunctival erythema (1/6=2, 4/6=3); 5/6 showed swelling and 6/6 with discharge (1/6=1, 5/6=2). Fluorescein test showed 4/6 with corneal involvement (3/5=5, 1/6=30). At 7 days, all eyes appeared normal.

At 7 days 1/6 showed corneal opacity (1/6-20), 1/6 with iris in tation (1/6=1); 1/6 showed conjunctival erythema (1/6=1/6 with swelling (1/6=2) and 1/6 with discharge (1/6=2)

Study Classification: Core Minimum Data. An eyewash group should have been studied. Since the test was conducted on EH596 and not EH594, this study cannot be used in support of the EH594 formulation.

Toxicity Category: II - WARNING. The toxicity category, as determined in this study, is for EH596 and not EH594.

8. Primary Eye Irritation Studies in Rabbits: EH594; MRI Project #4823-B-(1);
November 12, 1979. (2217-597; 1/21/80)

Procedure: 0.1 ml of EH594 was applied into one eye of each of 6 New Zealand white rabbits; no irrigation. Scoring at 24, 48, 72 hours, 4 and 7 days.

Results: At 24 hours, 6/6 exhibited corneal opacity (6/6=40); 6/6 showed iris irritation; 5/6 with conjunctival erythema (4/6=1, 1/6=3); 6/6 with swelling (3/6=2, 3/6=3); and 5/6 with discharge (4/6=2, 1/6=3). Fluorescein testing showed 6/6 with corneal involvement (6/6=60).

At 7 days, 4/6 exhibited corneal opacity (2/6=20, 1/6=40, 1/6=80); 4/6 with iris irritation (3/6=1, 1/6=2); 4/6 showed conjunctival erythema (2/6=2, 2/6=3); 4/6 exhibited swelling (3/6=2, 1/6=4); and 4/6 with discharge (1/6=1, 2/6=2, 1/6=3). Fluorescein testing showed 4/6 with corneal involvement (2/6=5, 2/6=40).

Study Classification: Core Minimum Data. A treated-and-rinsed group was not tested.

Toxicity Category: I - DANGER.

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9. Acute Eye Irritation - Rabbits; Hill Top Labs; July 1, 1979; Acc. No. 240898 (2217-624; 6/9/80)

Procedure: 0.1 ml of "823" was applied into one eye of each of 9 New Zealand white rabbits. Three rabbits had the treated eye flushed with lukewarm tap water, 30 seconds post-treatment, for 60 seconds. Draize scoring at 24, 48, 72 hours and 4, 7, 10, 13, 16, 19, and 21 days.

Results: Corneal opacity exhibited in 8/9 through day 21. Erythema, edema, and discharge observed in all animals through day 7. Other symptoms included blisters under eyelid (9/9), vascularization (8/9), loss of hair around eyes (5/9), vocalization at application (4/9), conjunctivae closing in around eye (1/9). Eye irritation, permanent damage more pronounced in eyes that had been washed.

Study Classification: Core Guideline Data.

Toxicity Category: I - DANGER.

10. Primary Eye Irritation Studies in Rabbits: EH595; MRI Project #4823-B-(1); November 12, 1979 (2217-597, 1/21/80)

Procedure: 0.1 ml of EH595 was applied into one eye of each of 6 New Zealand white rabbits; no irrigation. Scoring at 24, 48, 72 hours, 4 and 7 days.

Results: At 24 hours, no corneal opacity observed; 1/6 showed iris irritation (1/6=1); 6/6 with conjunctival erythema (2/6=1, 3/6=2, 1/6=3), 5/6 showed swelling (5/6=2); and 5/6 with discharge (1/6=1, 4/6=2). Fluorescein testing showed 3/6 with corneal involvement at 24 hours (3/6=5). All appeared normal by day 7.

Study Classification: Core Minimum Data. A treated and rinsed group was not tested. Please note that the test substance is EH595 and not EH594.

Toxicity Category: III - CAUTION.

11. Rabbit Eye Irritation: Stillmeadow Project #1336-79; October 15, 1979. (2217-597; 1/21/80).

Procedure: 100 mg of EH576 was applied into one eye of each of 9 New Zealand white rabbits. Three rabbits had the treated eye washed with room temperature tap water for one minute beginning 30 seconds post-treatment; remaining 6 treated eyes were not irrigated. Scoring at 1, 24, 48, 72 hours; 4, 7, 10, 13, 16, 19, and 21 days.

Results: At 24 hours, the unwashed group exhibited no corneal opacity when examined; fluorescein examination revealed 5/6 with corneal involvement; 6/6 with corneal stippling. Iris irritation observed in 3/6 (2/6=1, 1/6=2) unwashed eyes at 24 hours; 6/6 showed redness (6/6=2); 6/6 with chemosis (5/6=3, 1/6=4); 6/6 with discharge (4/6=2, 2/6=1). At 24 hours, the "washed" eye group showed no corneal opacity and no iris irritation; 1/3 exhibited redness (1/3=3); 3/3 with chemosis (3/3=1).

At day 7, unrinsed eyes showed 1/6 with corneal opacity (1/6=5); 2/6 had positive fluorescein tests; 1/6 with corneal stippling; 1/6 with iris irritation (1/6=2); 4/6 showed redness (2/6=1, 1/6=2, 1/6=3); 6/6 with chemosis (3/6=1, 1/6=2, 2/6=3); 2/6 with discharge (2/6=2). In unrinsed group, 2/6 showed corneal opacity and conjunctival irritation through day 21. All rinsed eyes appeared normal by 72 hours.

Study Classification: Core Guideline Data. Since the test substance was not EH594, this study cannot be used in support of the EH594 formulation.

Toxicity Category: I - DANGER. This toxicity category, as determined in this study, is for EH576 and not EH594.

12. Primary Eye Irritation Studies in Rabbits Using PBI/Gordon Corporation Test

Material EH595 and EH601; MRI #4823-B-(2); January 2, 1980; Acc. No. 244753

(2217-597; 4/24/81)

Procedure: Nine New Zealand white rabbits each received 0.1 ml of "EH 601" in one eye. Three eyes were rinsed 30 seconds after treatment with room temperature tap water for one minute. Eyes scored at 24, 48, 72 hours; 4, 7, 8, 9, 11, 14, 15, 17, and 21 days.

Results: The unwashed eyes at 24 hours exhibited corneal opacity in 6/6=20; iris irritation in 2/6=5, 1/6=10; conjunctival redness in 4/6=2, 2/6=3; chemosis in 4/6=2, 2/6=3; discharge in 3/6=2, 3/6=3. Only 3 animals scored through day 21; other animals' irritation had cleared. At 21 days, corneal opacity observed in 3/3=20; iris irritation in 3/3=5; redness in 3/3=2; chemosis in 3/3=2; discharge in 2/3=2, 1/3=3.

At 24 hours, the rinsed eyes showed corneal opacity in 3/3=20; redness in 2/3=1, 1/3=2; chemosis in 2/3=2, 1/3=3; discharge in 1/3=1, 1/3=2, 1/3=3. By day 7, corneal opacity seen in 1/3=20; redness in 2/3=1, 1/3=2; chemosis in 2/3=2, 1/3=3; discharge in 1/3=1, 1/3=2, 1/3=3. At day 14 (the last scores recorded), only irritation noted was chemosis in 1/3=1.

Study Classification: Core Minimum Data.

Toxicity Category: I - DANGER.

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13. Primary Eye Irritation Studies in Rabbits Using PBI/Gordon Corporation Test Materials 881 (Dimethylamine), 2,4-D (Dimethylamine), and 2,4-D (Iso-Octyl ester); MRI #4823-B(1); Nov. 12, 1979; Acc. No. 244753 (2217-597; 4/24/81)

Procedure: Nine New Zealand white rabbits each received 0.1 ml of "881 (Iso-octyl ester)" in one eye. Three eyes were rinsed 30 seconds after treatment with room temperature tap water for one minute. Eyes scored at 24, 48, 72 hours; 7, 10, 13, 14, 17, 21 days.

Results: Unwashed eyes at 24 hours exhibited redness in 6/6=1; chemosis in $\overline{5/6=2}$, 1/6=3; discharge in 4/6=1, 1/6=2, 1/6=3. At 3 days, corneal opacity in 2/6=20, 2/6=40; iris irritation in 3/6=1; redness in 4/6=1; chemosis in 3/6=1, 2/6=2; discharge in 3/6=1; redness in 4/6=1; chemosis in 3/6=1, 2/6=2; discharge in 3/6=1, 2/6=2. All eyes appeared clear by day 7.

Washed eyes exhibited no irritation at 24 hours. At day 2, iris irritation in 1/3=5; redness in 1/3=1; chemosis in 1/3=1; discharge in 1/3=1. All eyes were clear by day 4.

Study Classification: Core Guideline Data.

Toxicity Category: III - CAUTION.

14. Primary Eye Irritation Studies in Rabbits Using PBI/Gordon Corporation

Test Materials 881 (Iso-octyl ester), 881 (Dimethylamine), 2,4-D

(Dimethylamine, and 2,4-D (Iso-octyl ester); MRI #4823-B(1); Nov. 12,

1979; Acc. No. 244753. (2217-597; 4/24/81)

Procedure: Nine New Zealand white rabbits each received 0.1 ml of "881 Dimethylamine" in one eye. Three eyes were rinsed 30 seconds after treatment with room temperature tap water for one minute. Eyes scored at 24, 48, 72 hours; 4, 7, 14, 21 days.

Results: At 24 hours, the unwashed eyes showed corneal opacity in 1/6=10, 3/6=40, 1/6=45; iris irritation in 3/6=5, 2/6=10; redness in 3/6=1, 3/6=2; chemosis in 1/6=2, 5/6=3; discharge in 6/6=3. By 21 days, corneal opacity in 4/6=40, 1/6=80; iris irritation in 4/6=5, 1/6=10; redness in 4/6=2, 1/6=3; chemosis in 4/6=2, 1/6=4; discharge in 4/6=2, 1/6=3.

The washed eyes exhibited corneal opacity in 3/3=10; iris irritation in 1/3=5, 2/3=10; redness in 2/3=1, 1/3=3; chemosis in 1/3=2, 2/3=3; discharge in 1/3=2, 2/3=3 at 24 hours. At 21 days, corneal opacity in 1/3=20; iris irritation in 1/3=5; redness in 2/3=2; chemosis in 1/3=2; discharge in 1/3=2.

Study Classification: Core Guideline Data.

Toxicity Category: I - DANGER.

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15. Rabbit Eye Irritation; Stillmeadow #1344-79; October 17, 1979; Acc. No. 244753 (2217-597; 4/24/81)

Procedure: Nine New Zealand white rabbits each received 0.1 ml of "EH 600" in one eye. The test substance "EH 600" is composed of the following active ingredients:

 2,4-D, DEA salt
 23.54%

 MCPP, DEA salt
 15.69%

 Banvel, DEA salt
 3.92%

Three eyes were rinsed 30 seconds after treatment with room temperature tap water for one minute. Eyes scored through day 21.

Results: Upon instillation, 3/6 in unwashed group vocalized. All eyes showed red blister in conjunctival sac at 1 hour. At 24 hours, the unwashed eyes exhibited corneal opacity in 1/6=5, 2/6=20, 1/6=30; iris irritation is 6/6=10; conjunctival redness in 6/6=2; chemosis in 2/6=3, 4/6=4; discharge in 4/6=2, 2/6=3; also noted were necrosis (6/6) and corneal stippling (5/6). One animal found dead on day 7. Day 21, unwashed eyes exhibited corneal opacity in 1/5=10, 1/5=20, 1/5=30, 1/5=40; iris irritation in 2/5=5, 3/5=10; redness in 2/5=1, 3/5=2; chemosis in 2/5=2, 2/5=3, 1/5=4; discharge in 2/5=1, 3/5=2; also, corneal invaded by blood vessels (5/5), corneal swelling (2/5); ptosis around eye (1/5).

Upon instillation, 1/3 animals with washed eyes vocalized; red blisters seen in conjunctival sac of 3/3 rabbits. After 24 hours, washed eyes showed corneal opacity in 1/3=30, 2/3=40; iris irritation in 3/3=10; redness in 3/3=2; chemosis in 1/3=3, 2/3=4; discharge in 3/3=2; necrosis and corneal stippling in all rabbits. At 7 days, corneal opacity in 3/3=10, cornea invaded by blood vessels; iris irritation in 3/3=10; redness in 3/3=2; chemosis in 2/3=3, 1/3=4; discharge in 1/3=1, 1/3=2, 1/3=3; necrosis and stippling in 3/3. By day 21, comeal opacity in 1/3=5, 1/3=40; also, invasions of cornea by blood vessels, swollen cornea; iris irritation in 1/3=10; redness in 3/3=1, chemosis in 1/3=1, 2/3=2; discharge in 1/3=2.

Study Classification: Core Guideline Data.

Toxicity Category: I - DANGER.

16. Rabbit Eye Irritation; Project #1340-79; October 15, 1979; Accession No. 241332. (2217-597, 4/24/81 and 2217-AGC, 6/10/80)

Procedure: 0.1 ml of "EH 599" was applied into one eye of each of 9
New Zealand white rabbits. Three rabbits had the treated eye flushed
with room temperature tap water for 1 minute, 30 seconds post-treatment.
Scoring at 1, 24, 48, 72 hours; 4, 7, 10, 13, 16, 19, 21 days.

Results: In non-washed eyes at 24 hours, no corneal opacity; positive fluorescein staining in 6/6; stippling in 5/6; iris irritation in 6/6= 10; conjunctival redness in 2/6=2, 4/6=3; chemosis in 6/6=4; discharge in 4/6=2, 2/6=3; necrosis in 6/6. By day 7, unrinsed eyes showed corneal opacity in 4/6=5 with invasion of cornea by blood vessels; stippling in 6/6; iris irritation in 6/6=10; redness in 5/6=2, 1/6=3; chemosis in 2/6=3, 4/6=4; discharge in 6/6=2; necrosis in 6/6. At day 21, unwashed eyes exhibited corneal opacity in 2/6 = 15, 1/6=20, 2/6= 30, 1/6=40 with invasion of blood vessels into cornea and swelling of cornea; irritation to iris and conjunctive continued in all animals.

In rinsed eyes at 24 hours, corneal opacity in 1/3=20, 1/3=40; positive fluorescein stain in 3/3; stippling in 3/3; iris irritation in 3/3=10; redness in 2/3=2, 1/3=3; chemosis in 1/3=3, 2/3=4, discharge in 1/3=2, 2/3=3; necrosis in 3/3. By day 7, rinsed eyes exhibited corneal opacity 1/3=5, 1/3=10, 1/3=45 with invasion by blood vessels; iris irritation in 1/3=5, 2/3=10; redness in 1/3=2, 2/3=3; chemosis in 1/3=3, 2/3=4; discharge in 1/3=1, 2/3=2; necrosis in 3/3. At day 21, corneal opacity in 1/3=20 and 1/3=40 with invasion by blood vessels and corneal swelling; iris and conjunctival irritation continued in 2/3 washed eyes.

8/9 eyes were worse from day 7 to day 21.

Study Classification: Core Guideline Data.

Toxicity Category: I - DANGER.

17. Primary Eye Irritat. Studies in Rabbits: EH596; M. Project #4823-B-(1); November 12, 1979. (2217-597; 1/21/80)

Procedure: 0.1 ml of EH596 was applied into one eye of each of 6 New Zealand white rabbits; no irrigation. Scoring at 24, 48, 72 hours, 4 and 7 days.

Results: At 24 hours, 5/6 showed corneal opacity (4/6=20, 1/6=40); 5/6 with iris irritation (5/6=1); 5/6 with conjunctival erythema (1/6=2, 4/6=3); 5/6 showed swelling and 6/6 with discharge (1/6=1, 5/6=2). Fluorescein test showed 4/6 with corneal involvement (3/5=5, 1/6=30). At 7 days, all eyes appeared normal.

Study Classification: Core Minimum Data. An eyewash group should have been studied. Since the test was conducted on EH596 and not EH594, this study cannot be used in support of the EH594 formulation.

Toxicity Category: II - WARNING. The toxicity category, as determined in this study, is for EH596 and not EH594.

18. Primary Eye Irritation Studies in Rabbits Using PBI/Gordon Corporation Test Materials 881 (Iso-octyl ester), 881 (Dimethylamine), 2,4-D (Dimethylamine), and 2,4-D (Iso-octyl ester); MRI #4823-B(1); Nov. 12, 1979; Acc. No. 244753 (2217-597; 4/24/81)

Procedure: Nine New Zealand white rabbits each received 0.1 ml of "2,4-D (dimethylamine)" in one eye. Three eyes were rinsed 30 seconds after treatment with room temperature tap water for one minute. Eyes scored at 24, 48, 72 hours; 4, 7, 14, and 21 days.

Results: At 24 hours, the unwashed eyes showed corneal opacity in $\overline{5/6=20}$; 1/6=40; iris irritation in 6/6=5; redness in 4/6=1, 2/6=2; chemosis in 4/6=2, 2/6=3; discharge in 1/6=1, 4/6=2, 1/6=3. By day 21, corneal opacity in 2/6=20, 1/6=60, 1/6=80; iris irritation in 2/6=1, 2/6=2; redness in 2/6=2, 2/6=3; chemosis in 2/6=2, 2/6=4; discharge in 2/6=2, 2/6=3.

The washed eyes at 24 hours exhibited corneal opacity in 2/3=20; iris irritation 2/3=5; redness in 1/3=1, 2/3=2; chemosis in 1/3=1, 1/3=2, 1/3=4; discharge in 3/3=3. Corneal opacity in 1/3=20; iris irritation in 1/3=5; redness in 1/3=2; chemosis in 1/3=2; discharge in 1/3=1 at 21 days.

Study Classification: Core Guideline Data.

Toxicity Category: I - DANGER.

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19. Eye Irritation Study; MRI #4823-B(3); July 31, 1980; Acc. No. 245537

Procedure: Nine New Zealand white rabbits each received 0.1 ml of EH552 (1# 2,4-D acid; MCPP acid; Dicamba) in one eye. Three treated eyes were subsequently rinsed 30 seconds post-application for one minute with lukewarm water. Eyes were examined at 24, 48, 72 hours; 7, 10, 13 days.

Results: One animal .ith a washed/treated eye and one with an unwashed eye were inadvertently terminated on day 11. These animals were replaced. The animals that were terminated exhibited the most severe reaction to treatment.

The unwashed eyes at 24 hours exhibited corneal opacity in 1/7=10, 3/7=15, 1/7=20, 1/7=30, 1/7=40; redness in 2/7=1, 1/7=2, 4/7=3; chemosis in 1/7=1, 3/7=2, 1/7=3, 2/7=4; discharge in 2/7=2, 5/7=3. By day 7, the unwashed eyes exhibited corneal opacity only in 1/7=10; redness in 1/7=1. All unwashed eyes were clear at day 13.

Washed eyes at 24 hours exhibited corneal opacity in 1/4=5, 1/4=20, 1/4=60; iris irritation in 1/4=5; redness in 2/4=1, 1/4=2, 1/4=3; chemosis in 1/4=1, 2/4=2, 1/4=4; discharge in 1/4=2, 3/4=3. At day 7 chemosis in 1/4=1; discharge in 1/4=1. At day 10, the only irritation was discharge in 1/4=1; animal terminated on day 11.

Study Classification: Core Minimum Data. Two animals were inadvertantly terminated.

Toxicity Category: III - CAUTION.

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20. Eye Irritation Study; MRI #4823-B(3); Acc. #245537

Procedure: Nine New Zealand white rabbits each received 0.1 ml of BL 8000 in one eye. Three treated eyes were subsequently rinsed 30 seconds post-application for one minute with lukewarm water. Readings were taken at 24, 48, 72 hours; 4, 7 days.

Results: One animal (unwashed group) died on day 5; animal was replaced. In unwashed eyes at 24 hours, rabbits exhibited corneal opacity in 2/7=10, 1/7=15, 3/7=60; redness in 2/7=1, 3/7=2, 2/7=3; chemosis in 1/7=1, 6/7=3; discharge in 2/7=2, 5/7=3. All eyes were clear by day 7.

The washed eyes at 24 hours exhibited corneal opacity in 1/3=30, 2/3=60; redness in 2/3=2, 1/3=3; chemosis in 2/3=2, 1/3=3; discharge in 3/3=3. By day 7, all scores were specified by

Death was not attributed to test substance.

Study Classification: Core Guideline Data

Toxicity Category: III - CAUTION.

0012

Procedure: Two animals were used in this study; scores were reported for their right and left eyes. No procedures were given. Test substance was EH604 (4# diethanolamine salts of 2,4-D/MCPP/Dicamba). Animals were scored on 1,2, 3, 4, 7 days.

Results: At 24 hours, corneal opacity in 4/4 eyes = 40; iris irritation in 3/4=5; redness in 3/4=2, 1/4=3; chemosis in 3/4=3, 1/4=4, discharge in 4/4=3. At day 7, scores were identical.

Study Classification: Supplementary Data. Only 2 animals tested. Procedures must be reported.

22. Eye Irritation Study; MRI #4823-B(2); Dec. 31, 1979; Acc. No. 245537.

Procedure: Two animals were used in this study; scores were reported for their right and left eyes. Animals were scored on day 1, 2, 3, 4, 7. No further procedures were given. Test substance was EH605 (4 # triethanolamine salts of 2,4-D, MCPP, Dicamba).

Results: At 24 hours, corneal opacity in 4/4=20; iris irritation in 2/4=5 redness in 4/4=2; chemosis in 4/4=4; discharge in 4/4=3. At 7 days, corneal opacity in 1/4=2, 1/4=40; iris irritation in 1/4=10; redness in 2/4=1, 1/4=2, 1/4=3; chemosis in 3/4=2, 1/4=4; discharge in 1/4=1, 1/4=3.

Study Classification: Supplementary Data. Insufficient number of animals. Insufficient description of test.

23. Eye Irritation Study; MRI #4823-B(2); December 31, 1979; Acc. No. 245537

Procedure: Two animals were used in this study; scores were reported for their right and left eyes. Animals were scored on days 1, 2, 3, 4, 7. No further procedures were given. Test substance was EH606 (4# DEA/TEA salts of 2,4-D/MCPP/Dicamba).

Results: At 24 hours, corneal opacity in 4/4=20; redness in 2/4=2, 2/4=3; chemosis in 2/4=2, 2/4=4; discharge 4/4=3. At day 7, corneal opacity in 1/4=40; iris irritation in 1/4=10; redness in 3/4=1, 1/4=3; chemosis in 3/4=2, 1/4=4; discharge in 3/4=1, 1/4=3.

Study Classification: Supplementary Data. Insufficient number of animals. Insufficient description of test.

24. Eye Irritation Study; MRI #4823-B(2); December 31, 1979; Acc. No. 245537

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Procedure: Two animals were used in this study; scores were reported for their right and left eyes. Animals were scored on day 1, 2, 3, 4, 7. No further procedures were given. Test substance was EH607 (2 # dimethylamine salts of 2,4-D/MCPP/Dicamba).

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Results: At 24 hour corneal opacity in 4/4=20; ir., irritation in 2/4=5; redness in 2/4=2, 2/4=3; chemosis in 2/4=2, 2/4=4; discharge in 4/4=3. On day 7, corneal opacity in 2/4=40; iris irritation in 2/4=10; redness in 2/4=1, 2/4=3; chemosis in 2/4=2, 2/4=3; discharge in 2/4=3.

Study Classification: Supplementary Data. Insufficient number of animals. Insufficient description of test.

25. Eye Irritation Study; MRI #4823-B(2); December 31, 1979; Acc. No. 245537

Procedure: Two animals were used in this study; scores were reported for their right and left eyes. Animals were scored on days 1, 2, 3, 4, 7. No further procedures were given. Test substance was EH608 (2# Diethanolamine salts of 2,4-D/MCPP/Dicamba).

Results: At 24 hours, corneal opacity exhibited in 4/4=20; redness in 2/4=2, 2/4=3; chemosis in 4/4=2; discharge in 4/4=3. At day 7, redness in 2/4=1, 2/4=2; chemosis in 4/4=2; discharge in 2/4=1.

Study Classification: Core Supplementary Data. Insufficient number of animals. Description of procedures was insufficient.

26. Eye Irritation Study; MRI #4823-B(2); December 31, 1979; Acc. #245537

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Procedure: Two animals were used in this study; scores were reported for their right and left eyes. Animals were scored on days 1, 2, 3, 4, 7. No further procedures were given. Test substance was EH609 (2 # DEA/TEA salts of 2,4-D/MCPP/Dicamba).

Results: At 24 hours, eyes exhibited corneal opacity in 4/4=20; redness in 4/4=3; chemosis in 4/3=3; discharge in 4/4=3. At day 7, corneal opacity in 1/4=40; iris irritation in 1/4=5; redness in 2/4=2, 1/4=3; chemosis in 4/4=2; discharge in 1/4=1, 1/4=3.

Study Classification: Supplementary Data. Number of animals was insufficient. Description of procedures was not adequate.

27. Eye Irritation Study; MRI #4823-B(2); December 31, 1979; Acc. #245537

Procedure: Two animals were used in this study; scores were reported for both the right and left eyes. Animals were scored on days 1, 2, 3, 4, 7. No further procedures were given. Test substance was EH610 (1 # Dimethylamine salts of 2,4-D/MCPP/Dicamba).

Results: At 24 hours, eyes exhibited corneal opacity in 1/4=20, 1/4=40; iris irritation in 1/4=10; redness in 1/4=1, 3/4=2; chemosis in 4/4=2; discharge 3/4=2, 1/4=3. At 7 days, redness in 4/4=1; chemosis in 4/4=2.

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28. Eye Irritation Study; MRI #4823-B(2); December 31, 1979; Acc. #245537

Procedure: Two animals were used in this study; scores were reported for both the right and left eyes. Animals were scored on days 1, 2, 3, 4, 7. No further procedures were given. Test substances was EH611 (1 # Diethanolamine salts of 2,4-D/MCPP/Dicamba).

Results: At 24 hours, animals exhibited redness in 1/4=2; chemosis in 4/4=2; discharge in 3/4=2, 1/4=3. At day 7, redness in 4/4=1; chemosis in 4/4=2; discharge in 2/4=1.

Study Classification: Supplementary Data. Insufficient number of animals. Description of procedures was inadequate.

29. Eye Irritation Study; MRI #4823-B(2); December 31, 1979; Acc. No. 245537

Procedure: Two animals were used in this study; scores were reported for both the right and left eyes. Animals were scored on days 1, 2, 3, 4, 7. No further procedures were given. Test substance was EH612 (1 #TEA/DEA salts of 2,4-D/MCPP/Dicamba).

Results: At 24 hours, redness was observed in 1/4=1, 3/4=2; chemosis in 4/4=2; discharge in 2/4=1, 2/4=3. On day 7, redness noted in 2/4=1; chemosis in 4/4=2.

Study Classification: Supplementary Data: Insufficient number of animals. Description of procedures was inadequate.

30. Eye Irritation Study; Stillmeadow #2121-81; April 16, 1981; Acc. No. 245537

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Procedure: Nine New Zealand white rabbits each received 0.1 ml of "EH 680 BK 800" in one eye. Three treated eyes were rinsed with room termperature deionized water for one minute, 30 seconds post-treatment. Scores were recorded at 1, 24, 48, 72 hours; 4, 7, 10, 13, 16, 19, 21 days.

Results: Unwashed eyes at 24 hours exhibited iris irritation in 5/6=5; redness in 1/6=1; 5/6=2; chemosis in 1/6=1; 4/6=2; discharge in 1/6=1, 1/6=3, 3/6=2. At 7 days, corneal opacity observed in 1/6=10; redness in 3/6=1; chemosis in 1/6=1. At 21 days, only corneal opacity observed in 1/6=10 with dulling.

The washed eyes at 24 hours exhibited redness in 1/3=1, 2/3=2; chemosis in 2/3=1, 1/3=3; discharge in 1/3=1, 1/3=2. On day 7, redness in 1/3=1. All eyes were clear by day 10.

Study Classification: Core Guideline Data.

Toxicity Category: III - CAUTION.

31. Eye Irritation Study; Stillmeadow 2126-81; April 16, 1981; Acc. #245537

Procedure: Nine New Zealand white rabbits each received 0.1 ml of EH681 (1#/gal 2,4-DP BOE, 1#/gal 2,4-D IOE, 1#/gal Dicamba) in one eye. Three treated eyes were washed with room temperature deionized water for 1 minute beginning 30 seconds post-treatment. Eyes scored at 1, 24, 48, 72 hours; 4, 7, 10, 13, 16, 19, 21 days.

Results: The unwashed eyes at 24 hours exhibited corneal opacity in 2/6=20; iris irritation in 6/6=5; redness in 5/6=2, 1/6=3; chemosis in 3/6=2, 3/6=3; discharge in 3/6=2, 3/6=3. At day 7, corneal invasion seen in 2/6=5, 1/6=10; iris irritation in 1/6=5; redness in 4/6=1, 1/6=2; chemosis in 2/6=1, 1/6=2; discharge in 1/6=3. At 21 days, the unwashed eyes exhibited corneal opacity in 1/6=5.

The washed eyes exhibited corneal opacity at 24 hours in 1/3=15, 1/3=20; redness in 3/3=2; chemosis in 1/3=1, 2/3=2; discharge in 1/3=1, 1/3=2, 1/3=3. On day 7, corneal opacity observed in 2/3=10 with dulling; iris irritation in 1/3=10; redness in 1/3=1, 1/3=2; chemosis in 1/3=2; discharge in 1/3=3. At day 21, the washed eyes exhibited corneal opacity in 1/3=5, 1/3=15.

Study Classification: Core Guideline Data.

Toxicity Category: (II)- WARNING.

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32. Rabbit Eye Irritation Study; Stillmeadow #2131-81; April 20, 1981; Acc. #245537

Procedure: Nine New Zealand white rabbits each received 0.1 ml of EH 683 Amine 2,4-D Acid (33.23% Dicamba) in one eye. Three treated eyes were subsequently washed with room temperature deionized water for one minute, 30 seconds post-treatment. Eyes were scored at 1, 24, 48, 72 hours; 4, 7, 10, 13, 16, 19, 21 days.

Results: At 24 hours, the unwashed eyes exhibited corneal opacity in $\overline{1/6=10}$, 1/6=15, 4/6=20; iris irritation in 6/6=10; redness in 6/6=2; chemosis in 6/6=3; discharge in 3/6=2, 3/6=3; also noted were corneal stippling and necrosis. The unwashed eyes on day 21 exhibited corneal opacity in 1/6=5, 1/6=10, 3/6=20, 1/6=40; iris irritation in 2/6=5, 3/6=10; redness in 3/6=1, 3/6=2; chemosis in 3/6=1, 2/6=3; discharge in 2/6=1, 1/6=3; also, invasion of blood vessels into cornea, dulling of cornea, nodule on cornea, hair loss.

The washed eyes at 24 hours exhibited corneal opacity in 1/3=5, 1/3=10, 1/3=20 with stippling; iris irritation in 1/3=5, 2/3=10; redness in 2/3=2, 1/3=3; chemosis in 2/3=2, 1/3=3; discharge in 2/3=2, 1/3=3; necrosis in 1/3. By day 21, corneal opacity observed in 2/3=10 with dulling, invasion by blood vessels, nodule; iris irritation in 1/3=10.

Toxicity Category: I - DANGER.

33. Rabbit Eye Irritation; MRI #4823-B(3); August 27, 1980; Acc. #245537

Procedure: Nine New Zealand white rabbits each received 0.1 ml of EH552 (1#2,4-D Acid/MCPP Acid/Dicamba) in one eye. Three treated eyes were rinsed for 1 minute with lukewarm water, 30 seconds post-application. Eyes were examined 24, 48, 72 hours; 7, 10, 13 days. Two animals (one unwashed, one washed) were inadvertantly terminated on day 11; these animals were "replaced."

Results: The unwashed eyes at 24 hours exhibited corneal opacity in $\overline{1/7=10}$, 3/7=15, 1/7=20, 1/7=40; redness in 2/7=1, 1/7=2, 4/7=3; chemosis in 1/7=1, 3/7=2, 1/7=3, 2/7=4; discharge in 2/7=2, 5/7=3. By day 7, corneal opacity observed in 1/7=10; redness in 1/7=1 of the unwashed eye group.

The washed eyes exhibited corneal opacity in 1/4=5, 1/4=20, 1/4=60; iris irritation in 1/4=5; redness in 2/4=1, 1/4=2, 1/4=3; chemosis in 1/4=1, 2/4=2, 1/4=4; discharge in 1/4=2, 3/4=3. At day 7, only irritation was chemosis and discharge in 1/4=1 in animal that was subsequently "inadvertantly terminated"; at day 10, this animal with very slight discharge.

Both animals that were inadvertantly terminated showed the most irritation in their group.

Study Classification: Core Minimum Data.

Toxicity Category: III - CAUTION.

34. Eye Irritation Study; MRI #4823-B(1); October 15, 1979; Acc. #245537

<u>Procedure</u>: Six New Zealand rabbits each received 0.1 ml of EH590 in one eye. Eyes were examined at 24, 48, 72 hours; 4 and 7 days. None of the treated eyes were rinsed.

Results: At 24 hours, observations included corneal opacity in 6/6=40; iris irritation in 6/6=5; redness in 6/6=3; chemosis in 5/6=2, 1/6=3; discharge in 1/6=2, 5/6=3. By 7 days, corneal opacity exhibited in 1/6=20; iris irritation in 1/6=5; redness in 1/6=2; chemosis in 1/6=2; discharge in 1/6=2.

Study Classification: Core Minimum Data. An eyewash group was not tested.

Toxicity Category: III - CAUTION.

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Procedure: Six New Zealand white rabbits each received 0.1 ml of EH591 in one eye. Eyes were examined at 24, 48, 72 hours; 4 and 7 days. No eyes were rinsed.

Results: Corneal opacity observed at 24 hours in 3/6=40, 2/6=80; iris irritation in 3/6=5; 2/6=10; redness in 1/6=1, 5/6=3; chemosis in 4/6=2, 2/6=4; discharge in 1/6=1, 5/6=3. At day 7, corneal opacity noted in 3/6=20, 1/6=40; iris irritation in 3/6=5, 1/6=10; redness in 3/6=2, 1/6=3; chemosis in 4/6=2, 1/6=3; discharge in 1/6=1, 3/6=2, 1/6=3.

Study Classification: Core Minimum Data. An eyewash group was not tested.

Toxicity Category: I - DANGER.

36. Eye Irritation Study; MRI #4823-B(1); October 15, 1979; Acc. #245537

Procedure: Six New Zealand white rabbits each received 0.1 ml of EH597 in one eye. Eyes were examined at 24, 48, 72 hours; 4 and 7 days. None of the treated eyes were rinsed.

Results: At 24 hours, corneal opacity was seen in 4/6=20, 2/6=40; iris irritation in 6/6=1; redness in 1/6=2, 5/6=3; chemosis in 5/6=2, 1/6=3; discharge in 6/6=3. By day 7, corneal opacity exhibited in 1/6=20, 1/6=40; iris irritation in 1/6=5, 1/6=10; redness in 1/6=2, 1/6=3; chemosis in 2/6=2, 1/6=4; discharge in 1/6=1, 1/6=2, 1/6=3.

Study Classification: Core Minimum Data. An eyewash group was not tested.

Toxicity Category: I - DANGER.

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37. Eye Irritation Study; MRI #4823-B(1); October 15, 1979; Acc. #245537

Procedure: Six New Zealand white rabbits each received 0.1 ml of EH598. Observations were made at 24, 48, 72, 4 and 7 days. None of the treated eyes were rinsed.

Results: At 24 hours, corneal opacity was exhibited in 1/6=60, 5/6=80; iris irritation in 6/6=10; redness in 6/6=3; chemosis in 6/6=4; discharge in 6/6=3. At 7 days, corneal opacity in 1/6=40, 5/6=60, iris irritation in 6/6=10; redness in 6/6=2; chemosis in 6/6=2; discharge in 6/6=2.

Study Classification: Core Minimum Data. An eyewash group was not treated.

Toxicity Category: I - DANGER.

STOP! RE40 THE ENTIRE LABEL FIRST. OBSERVE ALL PRECAUTIONS AND FOLLOW JIRECTIONS CARFFULLY

PRECAUTIONARY STATEMENTS

Hazards to Humans & Domestic Animals

irritation to see the test, on skin or clothing. Wear goggles, or face shield, and rubbe gloves when handling Hustineth of swallowed, inhaled or absorbed through skin Avend inhalation of spray mist. In case of contact, we workeledly flust eyes or skin with plenty of white; if me yets, see a physician. If irritation develops, per medical altention. Wash contaminated colothing, believe reuse. Do not contaminate feed or

Keep out at Likes, streams and ponds. Do not apply when weather conditions favor drift from larget area not communate water by cleaning of equipment or disposal of wastes. Do not contaminate domestic or irrigation waters. invironmental Hazards

RECTIONS FOR USE

is a violation of federal law to use this product in a Jacob inconsistent with its labeling.

STORAGE & DISPOSAL

- KEEP FROM FREEZING -

Prohibitings: Do not contaminate water, food or feed by storage, disposal or cleaning of equipment. Do not store new other pesticides or seeds.

Container Disposal: Triple rinse (or equivalent) and offer for recycling, reconditioning or disposal in approved landfill, or bury in a safe place. General: Consult federal, state or local disposal authorities for approved alternative procedures. Pesticide Dispusal: Pesticide, spray, mixture or rinsale that cament be used or chemically reprocessed should be disprayed in a landfill approved for pesticides or burier in a safe place away from water supplies.

Avoid drill of spray mist anto vegetables, flowers, ornamental plants, shrubs, trees and other desirable plants.

Dennis,

... of pour spray solution near these plants.

... of on a spray and about seas dichorder or lawns or the whole desirable forests dichorder or lawns or the only sharings forests are present.

The control sharings forests are present.

YOTE: coarse ways are less likely to wind-drift, yote: coarse ways are less undertaid by fronts of sexuals tree plants, are the same and the property of the present of

ay when dir temperature axceeds 850 F. box ealely sown 3 to 4 weeks after contaminate domestic or irrigation waters.

iury can be expected to turk when used on the cools Augustine grass lawns. "Spot spray" if yone have 1ypes of grasses. Clover present r using this graduct, clean sprayer with soap etegent and Water, and rinse thoroughly belore

ng other pesticides. e to observe the above precautions may result

Gordon's

dinetetri)

TRIMEC, 450

ACCEPTED

JUN 18 1981

Under the Falson Insorticide, Fungicide, and Redenticule A.C. as amended, for the posticidis PA Rog. No. 2317-624

DANDELIONS KNOTWEED I CHICKWEED PLANTAINS S and Many Other Broadleaf Weeds

KILLS

dichondra.

Contains 2,4-D, MCPP, and Dicamba KEEP FROM FREEZING This Product Contains:

11.188 lbs. 2.4-Dichlorophenoxyacetic acid per gallon or 19.18%.
12.0 lbs. 2.42-methy4-chlorophenoxy propionic acid per gallon or 20.40%.
12.5 lb. 3.6-dichloro-co-anisic acid per gallon or 5.13%) C +*Isomer Specific by AOAC Method 6.DOI-5.

*TRIMEC® is a registered trademark of PBI/GORDON CORPORATION. U.S. Patent No. 3,284,186.

KEEP OUT OF REACH OF CHILDREN

STATEMENT OF PFACTICAL TREATMENT DANGER

In case of contact with eyes, flush with water for 15 minutes. Get medical attention. In case of contact with shin, wash with plenty of soap and water. See side panels for additional precautionary statements.

NET CONTENTS ONE U.S. GALLON



JSE INSTRUCTIONS:

Maximum kill of weeds will be obtained from Spring or early Fall application when weeds are turf until after the second or third mowing. Grass DRNAMENTAL LAWNS AND TURF; Apply TRIMECA 150 HERBICIDE at the rate of 2 to 3 pints per icre in sufficient water for adequate coverage. ictively growing. Avoid applying during long excessively dry or hot periods unless adequate rrigation is available. Do not irrigate within 24 nours of application. Do not apply to newly seeded seed can be safely sown 3 to 4 weeks after application at recommended rate. Do not use on

weed, Oxalis, and Henbit. In addition to these. if kills virtually all broadleaf words, some of which is especially effective against words such as WEEDS CONTROLLED: TRIMFC . 450 HERBICIDE Sheep Sorrel, Knotweed, Spotter Spurge, Chickare listed below. Repeat application if necessary.

7

Bedstraw	Knotweed	Sheep Sorre
Black Medic	Lambsquarter	Shepherd's
Buckhorn	Lespedeza	Purse
Burdock	Mallow	Speedwell
Chicory	Morning Glory	Spurge
Chickweed	Peppergrass	Wild Carrot
Clover	Pigweed	Wild Garlie
Dandellon	Plantains	Will Lettuc
Dock	Poison ivv	Writ Onion
Ground Ivy	Poison Oak	Y3770W
Heal all	Purslane	
Henbit	Ragweed	

forms to the ingredient statement or the total Since conditions of use, such NOTICE: Seller warrants that " patibility with other chemicans claims other than those state! application equipment will v.v. /

EPA REG. NO. 2217 624

EPA EST. NO. 2217 KS 1

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