

2,4-D/TOX



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

315

38

DATE: October 6, 1980

SUBJECT: EPA Reg. No. 538-71
Turf Builder Plus 2 for Grass (W/S): Super Turf
Builder Plus 2 for Iron Deficient Soils

FROM: Sherell A. Sterling
FHB/TSS

*10-8-80
E 11/3/80*

TO: Richard Mountfort
Product Manager (23)

Applicant: O. M. Scott and Sons
Marysville, OH
Attention: Gerald L. Born

Active Ingredient	
2,4D.....	0.6%
MCPA.....	0.6%
Inert Ingredients.....	98.8%

Background: These data were submitted to substantiate a change in signal word from CAUTION to WARNING. The method of support is "alternate." Included in the data submitted were Acute Oral, Acute Dermal, and Eye and Skin Irritation studies conducted by Warf Institute of Madison, Wisconsin; another Eye Irritation study was conducted by Raltech Scientific Services of Madison, Wisconsin. These data are under Accession Number 243006.

Comments: A letter was submitted by Scotts (July 31, 1980) which ^{attempts to} justify the signal word "WARNING" rather than "DANGER." This letter included the information that no accidents related to eye irritation had been reported. Also, due to method of application, possibility of eye contact is remote.

Recommendations:

1. The composition of "F-7645" and "F-8598" must be supplied before the data will be considered for registration. Since the "alternate" method of support is used, the formulations tested must be identical to the EPA-accepted formulations for this product.
2. Additional comments are withheld until the composition of the test substances is supplied.
3. Please submit a copy of the revised labeling for review. *11-3-80*

Review:

1. Acute Oral Toxicity; Warf Inst. No. 6021914; Acc. No. 243006; Feb. 12, 1976.

Procedure: Groups of six male Sprague-Dawley rats (150-250g) recieved an oral dosage of "F-7645." The dosage levels were 5 g/kg, 10 g/kg or 20 g/kg. Animals were observed for 14 days post-treatment.

Results: No mortalities were reported. LD₅₀ for males is greater than 20 g/kg.

Study Classification: *Invalid Rb* Core ~~Supplementary~~ Data. Only M animals were used; no necropsies were performed. Substance was not identified.

2. Acute Dermal Toxicity; Warf Inst. No. 6021914; Accession Number 243006; Feb. 12, 1976.

Procedure: Four male rabbits received an 8 g/kg exposure to "F-7645" under occlusive wrap. Exposure was for 24 hours. Animals were observed for 2 weeks post exposure.

Results: Apparently no animals died during study. All body weights increased.

Study Classification: *Invalid Rb* Core ~~Supplementary~~ Data. Only male animals were tested. No necropsies performed. Substance was not identified. Solid material must be moistened.

3. Eye Irritation; Warf Inst. No. 6021914; Acc. No. 243006; Feb. 12, 1976.

Procedure: 6 New Zealand white rabbits received 0.1g of "F-7645" in one eye of each rabbit. Animals were observed for 72 hours post-exposure.

Results: At 24 hours, no corneal opacity; no iris irritation; redness in 6/6 = 2; chemosis 6/6 = 2; discharge 6/6 = 2. By 72 hours only irritation noted was redness in 2/6 = 1.

Study Classification: *Invalid Rb* Core ~~Supplementary~~ Data. No "eyewash" group tested. Substance was not identified.

4. Primary Eye Irritation: Raltech Lab #772287; Acc. No. 243006; March 21, 1980.

Procedure: Nine New Zealand white rabbits each received in one eye 0.1g of "F-8598." Thirty seconds post-treatment, three of the eyes were washed with lukewarm water for 1 minute; remaining six were unwashed. Scoring at 24, 48, 72, 96 hours; 7, 14, 21 days.

Results: All animals increased in body weight. At 24 hours the unwashed, corneal opacity observed in 3/6 = 5, 1/6 = 7.5, 1/6 = 10, 1/6 = 11.25, 6/6 had corneal epithelial peeling; iris irritated and injected in 6/6 = 1; redness in 3/6 = 2, 1/6 = 2.5, 2/6 = 3; chemosis in 4/6 = 2, 2/6 = 3; purulent discharge in 3/6 = 1, 1/6 = 1.5, 1/6 = 2.0, 1/6 = 2.5. Corneal opacity had cleared in all but 1/6 by 96 hours; 1/6 persisted through day 21. Only other effect at 7 days was redness in 1/6 = 1 which had cleared by 14 days. The rinsed group at 24 hours showed corneal opacity in 2/3 = 2.5, 1/3 = 7.5; corneal epithelial peeling in 2/3; iris irritated and injected in 1/3 = 1; redness in 1/3 = 1, 1/3 = 1.5, 1/3 = 2; chemosis in 2/3 = 1.5; purulent discharge in 2/3 = 0.5. At 72 hours, rinsed eyes showed redness in 3/3 = 1; all scores were zero at 7 days.

Invalid
Study Classification: Core ~~Supplementary~~ Data. Test substance was not identified sufficiently.

5. Primary Skin Irritation: Warf Inst. No. 6021914; Acc. No. 243006; Feb. 12, 1976.

Procedure: Six albino rabbits received exposure of 0.5g of "F-7645" at each of 2 sites per animal. Exposure was for 24 hours under occlusive wrap. Scoring at 24, 72 hours.

Results: All scores were zero.

Invalid
Study Classification: Core ~~Supplementary~~ Data. Solid material must be moistened.

Treats 4,000 sq ft (372m²)

Scotts
TURF BUILDER
plus 2
FOR GRASS

NEW CRACKS
need control plus less irritates

[illegible]

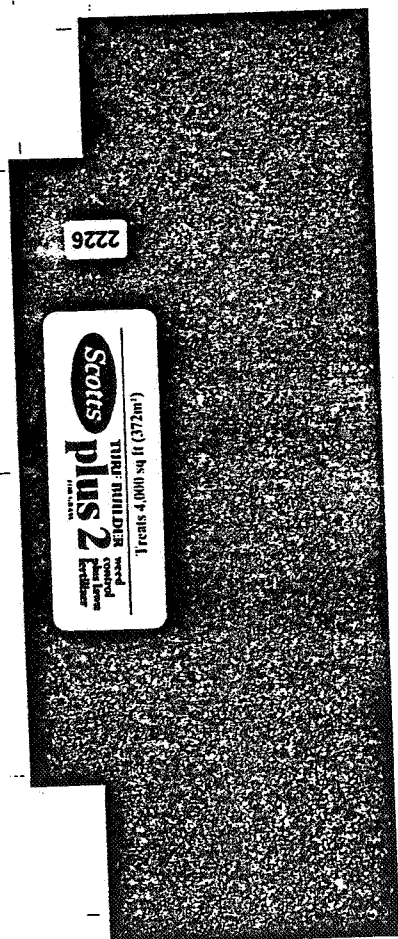
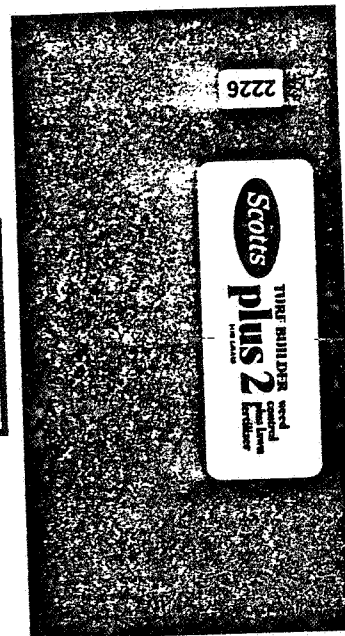
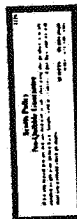
How To Use

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What to expect

The preceding data may be interpreted in two ways. It is interpreted as follows: one, widely controlled access to the Internet and to e-mail is essential to the success of the Internet-based movement; two, the Internet-based movement is a new form of social movement that is not bound by the traditional boundaries of social movements. It is also interpreted as follows: one, the Internet-based movement is a new form of social movement that is not bound by the traditional boundaries of social movements; two, the Internet-based movement is a new form of social movement that is not bound by the traditional boundaries of social movements.

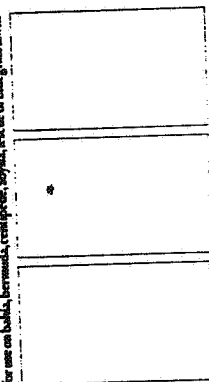
Free Bulletin service

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Scott's
TURF BUILDER
plus 2
weed control
plus lawn
fertilizer
FOR GRASS

Scotts
TURF BUILDER
plus 2.
FOR GRASS

weed control plus lawn fertilizer



Clear out weeds- (see list on other side)

Gives complete feeding of Scott's long-lasting

fertilizer for developing autumn, green manure
DO NOT USE IN SE. AUSTRIA, CARRIAGE, CRUELTY, BENTONITE
CRUELTY, BENTONITE, CRUELTY, BENTONITE

NET WEIGHT 22% LBS (10.32 kg) 77-3-3

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1. *What is the purpose of the study?*
 2. *What are the research objectives?*
 3. *What is the research design?*
 4. *What are the variables?*
 5. *What is the sample size?*
 6. *What are the data collection methods?*
 7. *What are the data analysis methods?*
 8. *What are the results?*
 9. *What are the conclusions?*
 10. *What are the limitations?*
 11. *What are the recommendations?*
 12. *What are the references?*

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1. The first step in the process is to identify the problem or issue that needs to be addressed. This involves gathering information and understanding the context of the problem.

100

Abstract

THE

1. *What is the purpose of the study?*
 2. *What are the research questions or hypotheses?*
 3. *What is the study design?*
 4. *What is the sample size and how was it selected?*
 5. *What are the variables being measured?*
 6. *What are the data collection methods?*
 7. *What are the results of the study?*
 8. *What are the conclusions of the study?*
 9. *What are the limitations of the study?*
 10. *What are the implications of the study?*

Scott's TURF BUILDER **plus 2** weed control plus lawn fertilizer
FOR GRASS