

TOX

2,4-D/TOX

(36)



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



Releasable

# 315

Date: October 2, 1980

Subject: Super Turf Builder Plus 2  
EPA File Symbol 538-120

From: Sherell A. Sterling  
FHB/TSS

*MS 10-7-80*  
*E 11/5/80*

To: Richard Mountfort  
Product Manager (23)

Applicant: O.M. Scott & Sons Co.  
Attn.: Gerald L. Born  
Marysville, OH 43040

Active Ingredient:	
2,4-D	1.10%
MCPA <sup>P</sup>	.1.10%
Inert Ingredients	97.80%

Background: An Eye Irritation study was submitted to support a signal word change from CAUTION to WARNING. The accession number assigned was 243008. This study was conducted by Raltech Scientific Services of Madison, Wisconsin. The "alternate" method of support was chosen.

Comments:

Scott's letter of July 31, 1980, to the Agency states that the correct signal word is WARNING rather than DANGER. This is due to the fact that the formulation (granular) is used in a method which does not promote eye exposure. Also, Scotts' has a record of no accidents related to the eyes for this product.

Recommendations:

*Invalid*

1. The data are considered Core ~~Supplementary~~ since the chemical identity of the test substance was not revealed.
2. If the test substance is identified as an EPA-accepted formulation for this product, the data would be considered Core Guideline and the appropriate signal word would be WARNING.

Review:

1. Primary Eye Irritation; Raltech #772284; Acc. No. 243008; March 19, 1980

Procedure: One eye of each of Nine New Zealand white rabbits received an 0.1g dose of "F7054." Three of the treated eyes were washed for one minute with lukewarm water, 30 seconds post-instillation. Eyes were scored according to Draize's method at 24, 48, 72, 96 hours; 7 and 14 days.

Results: Upon instillation, 4/9 animals vocalized. Unwashed eyes at 24 hours showed corneal opacity in 2/6 = 5, 1/6 = 10, 2/6 = 15, 1/6 = 22.5; 6/6 with corneal epithelial peeling; iris irritation and injection in 5/6 = 1; redness in 1/6 = 2, 1/6 = 2.5, 4/6 = 30 and 5/6 showed blanching; chemosis: 1/6 = 1.5, 2/6 = 2.0, 3/6 = 2.5; purulent discharge: 3/6 = 1.5, 2/6 = 2.0, 1/6 = 2.5. Petite hemorrhages observed at 48, 72, 96 hours. Corneal opacity gone by day 7; only slight redness observed in 4/6. By 14 days, all eyes were clear.

At 24 hours, washed eyes showed corneal opacity in 1/3 = 11.25, 1/3 = 15; 2/3 with corneal epithelial peeling; iris irritation and injection in 3/3 = 1, redness in 1/3 = 1.5, 2/3 = 3 with blanching; chemosis in 1/3 = 1, 1/3 = 2.5, 1/3 = 3.0; purulent discharge in 1/3 = 1, 1/3 = 2, 1/3 = 2.5. Petite hemorrhage seen in 1/3 at 48 hours. At day 7, corneal opacity in 1/3 = 7.5. All eyes were clear at 14 days.

Study Classification: The test substance was not clearly identified. If identified as an approved formulation, the study would be considered Core Guideline and would be toxicity category II-WARNING.

FRONT: (Scotts (R)) Super Turf Builder plus 2 (Scotts)  
 (Lawn Pro) Weed Control Plus Lawn Fertilizer  
 Treats 5,000 sq ft (465 m<sup>2</sup>)

(Scotts (R))

Super

Turf

22H7

Builder

plus 2 (R)

BRAND

Weed Control Plus Lawn Fertilizer

(PHOTO ILLUS)

TREATED

UNTREATED

Controls dandelions and other weeds listed on back

Gives your lawn a full feeding of Scotts Super Turf Builder

Apply when weeds are in active growth

A SCOTTS(R) LAWN PRO<sub>TM</sub> PRODUCT

Available only at authorized Lawn Pro stores

NET WEIGHT 15 3/4 LBS (7.14 kg) 32-4-4

KEEP OUT OF REACH OF CHILDREN

WARNING

PRECAUTIONARY STATEMENTS

Hazard to Humans and Domestic Animals: Causes eye irritation. Do not get in eyes, on skin, or on clothing. In case of contact immediately wash eyes or skin with plenty of water. Get medical attention if irritation persists. Harmful if swallowed. Do not contaminate feed of foodstuffs.

Environmental Hazards: Do not contaminate water used for irrigational or domestic purposes. Do not use on creeping bentgrass, carpetgrass, St. Augustinegrass, dichondra or clover lawns. Avoid application on garden plants, flowers, and shrubs.

Storage and Disposal: Do not reuse empty container. Wrap container and put in trash container.

ACTIVE INGREDIENTS:

2,4-Dichlorophenoxyacetic acid . . . . . 1.10%

2-(2-Methyl-4-chlorophenoxy) propionic acid. . . . . 1.10%

INERT INGREDIENTS: . . . . . 97.80%

EPA Reg. No. 538-120 EPA Est. 538-OH-1 Total 100.00%

Super Turf Builder plus 2 32-4-4

FRONT CONTINUED:

Guaranteed Analysis

Total nitrogen (N) . . . . .	32%
1.0% ammoniacal nitrogen	
20.3% water soluble nitrogen	
10.7% water insoluble nitrogen	
Available phosphoric acid ( $P_2O_5$ ) . . . . .	4%
Soluble potash ( $K_2O$ ) . . . . .	4%
Derived from: monoammonium phosphate, urea, methylene ureas and potassium sulfate	

US Process Pat Nos 3,231,363;3,705,794 and 3,989,470

Product of USA  
Marysville, Ohio 43041

2H7 (Scotts (R)) Super Turf Builder plus 2 (Scotts )  
Weed Control Plus Lawn (Lawn Pro)  
Fertilizer ( ) TM

GUSSETS:

(Scotts (R)) Super Turf Builder plus 2 (R)  
Weed Control Plus Lawn Fertilizer  
BRAND

A SCOTTS  
LAWN  
PRO  
PRODUCT

22H7

(Scotts (R)) Super Turf Builder plus 2 (R)  
Weed Control Plus Lawn Fertilizer  
BRAND

A SCOTTS  
LAWN  
PRO  
PRODUCT

22H7

BACK:

22H7 STB+ 2 5M

Super Turf Builder plus 2 (Scotts (R))

Treats 5,000 sq ft (465 m<sup>2</sup>)

(Scotts (R))

Super  
Turf  
Builder  
plus 2 (R)

BRAND  
Weed Control Plus Lawn Fertilizer

22H7

EASY  
OPEN BAG  
PULL  
WHITE  
STRING

#### Weeds Controlled

dandelion  
buckhorn

plantain  
chickweed

ground ivy  
white clover

aster  
bittercress  
black medic  
bull thistle  
carpetweed  
chicory  
cinquefoil  
cudweed

curly dock  
English daisy  
eveningprimrose  
filaree  
fleabane  
hawkweed  
healall  
henbit

horseweed  
knotweed  
(seedling)  
lambsquarters  
lippia  
(matchweed)  
mallow  
moneywort

morningglory  
mustard  
pennywort  
pepperweed  
pigweed  
prickly lettuce  
purslane  
ragweed

scarlet  
pimpernel  
shadflower  
shepherdspurse  
smartweed  
stitchwort  
thymeleaf  
sandwort  
vetch  
yellow rocket

#### Directions for Use

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

DO use when weeds are actively growing, but not before dandelion blossom time.

DON'T use when rain is expected within 24 hours.

DO apply only when lawn is wet from dew, rain or thorough watering (very important so that the particles will stick to the weed leaves instead of falling to the soil).

DON'T use in a period of extreme heat and humidity.

DO withhold watering lawn for at least 24 hours after application (to avoid washing particles off the weed leaves).

DON'T use when grass is so tall it touches bottom of spreader (mow lawn first in such situations).

DO apply on a calm day.

DON'T use on a newly seeded or sodded lawn until the new grass has been mowed at least four times. If seeding in late spring, delay weed control application until early fall. If seeding in the late fall, delay weed control application until spring.

DO apply at Scotts Spreader (Standard, Automatic or Precision Flow Control Model) setting.. 5½ (treats 5,000 sq ft)

DO slightly overlap spreader's wheel tracks or you may have "stripes" of untreated lawn.

DON'T seed right after using. Wait at least one month.

DON'T use on flowers, shrubs, fruit, vegetable plants, or on lawns of creeping bentgrass, clover, dichondra, St. Augustine or carpetgrass. Do not use on lippia or similar ground covers.

DON'T apply with a rotary (broadcast) spreader.

#### What to expect

This product does not work overnight. It is designed to provide steady, controlled action. Stems and leaves of weeds may begin to twist and curl in a few days, but a month or more may be required for complete control, especially when weather is dry or cold.

It is not necessary to rake out dead weeds. They will eventually disintegrate and

BACK CONTINUED:

This product works only through the growing leaves of plants. It does not prevent weed seeds from producing new plants, whether such seeds are on the surface or buried in the soil.

If particles become washed off weed foliage within 24 hours after application, control may be less effective. If there is no indication that it is working after 3 or 4 weeks of good growing weather another treatment may be needed. You can repeat or apply Scotts Lawn Weed Control which does not include fertilizer.

A few weeds may be resistant to control. If this happens, please forward specimens so we can identify them and advise you further.

After weed control is achieved, you are urged to follow through on the basic needs of every lawn—fertilizer, water and regular mowing.

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A SCOTTS (R) LAWN PRO<sup>TM</sup> PRODUCT

Available only at authorized Lawn Pro stores

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22H7

Scotts Policy  
No-Quibble Guarantee

If for any reason you are not satisfied with results after using this product, you are entitled to get your money back. Simply send us evidence of purchase and we will mail you a refund check promptly.

SCOTTS...the lawn people • Marysville, Ohio 43041

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Free Bulletin Service

As a Scotts user, you are entitled to a free subscription to Lawn Care, which has been helping lawnowners for over 50 years.

Unless you already receive Lawn Care, send us this coupon and we'll mail you the seasonal issues prepared especially for your region.

Cut out and mail to Scotts, Marysville, Ohio 43041

NAME (please print)

ADDRESS

CITY

STATE

ZIP

22H7

(Scotts (R)) Super Turf Builder plus 2 (R)  
BRAND

Weed Control Plus Lawn Fertilizer

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