

2,4-D/TOX

38



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

315



Releasable

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: Sherrell 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} justifies 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: Core ^{Invalid Rb} ~~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: Core ^{Invalid Rb} ~~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: Core ^{Invalid Rb} ~~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.

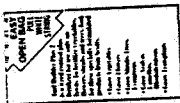
Invalid
Study Classification: Core ~~Supplementary~~ Data. Test substance was not identified sufficiently.

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

used control plus have brilliant

[illegible]

How To Use

[illegible]

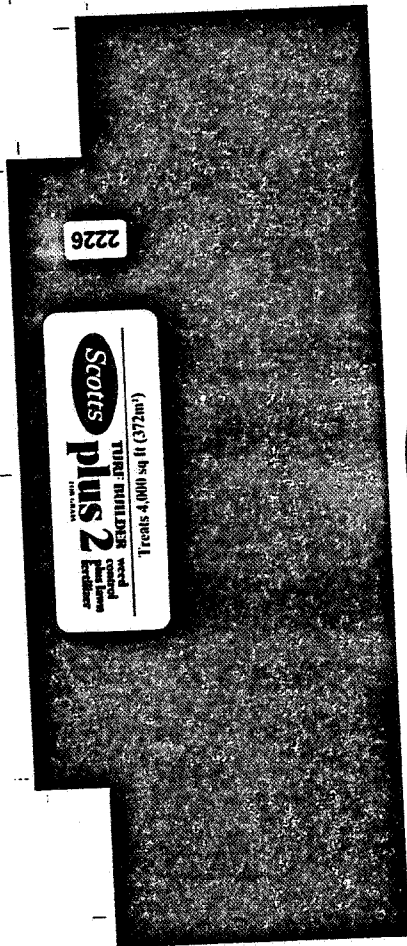
What to expect

[illegible]

Free butterfly service

1. The first of the two main groups of the population is the group of the population which is not engaged in any of the above mentioned activities. This group is the largest and it is the one which is the most difficult to reach. It is the group which is the most difficult to reach because it is the group which is the most difficult to reach.

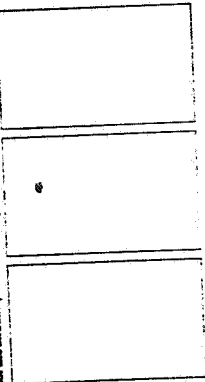
Scotts Paper Co.
New York City, N.Y.



Scotts
TURF BUILDER
plus 2
FOR GRASS

ol plus lawn fertilizer

For more on bubba, bornnada, renipede, ayuda, kruse or bangy and many



Clears out weeds- (see list on other side)

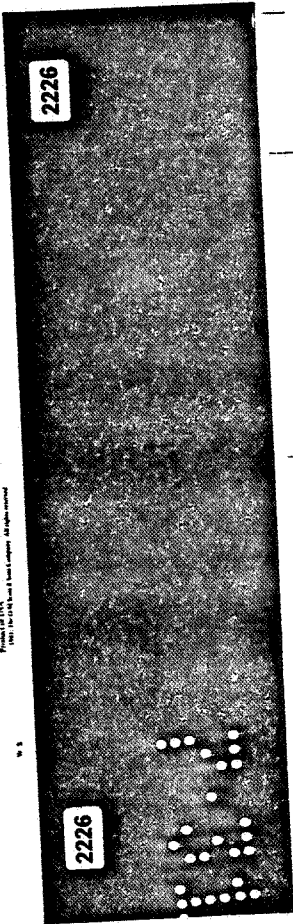
Gives complete feeding of Scott's long-lasting

**DO NOT USE IN ST. AUGUSTINE, CARPENTERS, CHEERING BENEDICTS,
DICKINSONIA, OR LIPPA**

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

Year	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	
1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	
1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061																																								

Printed on acid-free paper. All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without permission in writing from the publisher.



TURF BUILDER weed
plus 2 control
FOR GRASS plus lawn
fertilizer