EEB BRANCH REVIEW

DATE: IN 6/11/85 OUT 6/27/85

FILE OR REG. NO. 538-ENN; 538-ENR; 538-ROO

PETITION OR EXP. PERMIT NO. 

DATE OF SUBMISSION 2/14/85

DATE RECEIVED BY HED 6/7/85

RD REQUESTED COMPLETION DATE 7/8/85

EEB ESTIMATED COMPLETION DATE 7/8/85

RD ACTION CODE/TYPe OF REVIEW 160/Old Chemical

TYPE PRODUCT(S): I, D, H, F, N, R, S Plant Growth Regulator

DATA ACCESSION NO(S). 

PRODUCT MANAGER NO. R. Taylor (25)

PRODUCT NAME(S) Scott's Turf Manager (538-ENN); Scott's For St. Augustine grass (538-ROO); Scott's Turf Manager II (538-ENR)

COMPANY NAME O.M. Scott & Sons

SUBMISSION PURPOSE Proposed conditional registration of lawn uses

SHAUGHNESSY NO. CHEMICAL & FORMULATION % A.I.

125601 Paclobutrazol 0.066%

" " " 0.20%

" " " 1.38%
Ecological Effects Branch Review

Paclobutrazol

100 Submission Purpose and Label Information

100.1 Submission Purpose and Pesticide Use

O. M. Scott & Sons have submitted three products with slightly different percent active ingredients for use on lawns. The three products (Scotts Turf Manager, Scotts Turf Manager II, and Scotts Turf Manager for St. Augustine grass) help the grass plant regulate the production of growth substances it needs to grow more efficiently. Rather than growing taller between mowings, the grass plant redirects growth into side shoots so leaf blades become thicker and greener. Since the grass plant grows more horizontally than vertically, mowing is greatly reduced.

100.2 Formulation Information

1. Scotts Turf Manager
   Active Ingredient: Paclobutrazol .................. 0.066%
   Mefluidide ...................................... 0.006%
   Inert Ingredients: ........................................ 99.928%

2. Scotts Turf Manager II
   Active Ingredient: Paclobutrazol .................. 0.20%
   Inert Ingredient: ...................................... 99.80%

3. Scotts Turf Manager for St. Augustine
   Active Ingredient: Paclobutrazol .................. 1.38%
   Inert Ingredient: ...................................... 98.62%

100.3 Application Methods, Rates, Directions

Apply to dry foliage when temperatures are regularly in the 80's. Water in after application and continue to provide adequate water during periods of extended dry weather.

Rates

1. Scotts Turf Manager = 0.19 lb/ai/acre
2. Scotts Turf Manager II = 0.20 lb/ai/acre
3. Scotts Turf Manager for St. Augustine grass = 0.56 lb/ai/acre.
100.4 **Target Organism**

St. Augustine grass

100.5 **Precautionary Labeling**

*Environmental Hazards:* Do not apply directly to lakes, streams, or ponds. Do not apply to steep slopes or when weather conditions favor drift or runoff from target areas.

101 **Hazard Assessment**

101.1 **Discussion**

EEB has reviewed submission of paclobutrazol for registration on ornamental trees, greenhouse plants, and golf courses previously. The reviews indicate minimal hazard to wildlife and fish. This submission proposes the application method of watering in thoroughly after treatment and with a maximum rate of 0.56 lb/ai/acre.

101.2 **Likelihood of Adverse Effects to the Nontarget Organisms**

The bird, fish, and aquatic invertebrates data indicate paclobutrazol is "practically nontoxic." The exposure to nontargets, other than those feeding directly on the lawn turf, is expected to be minimal. This is due to the low application rate and the method of watering in after each treatment. Because of the minimum exposure potential posed under this incremental risk assessment, and due to the relatively low toxicity of paclobutrazol to fish, birds, and aquatic invertebrates, EEB does not expect unreasonable adverse effects to nontarget organisms.

101.3 **Endangered Species Consideration**

Minimal hazard is expected for endangered species at this time.

101.4 **Adequacy of Data**

The six basic studies are valid. No further studies are necessary for this use.

101.5 **Adequacy of Labeling**

The submitted labeling should add the following: "Do not apply to wetlands."
Classification

This is an amendment to an existing no-restrictive-use label.

Conclusion

EEB has completed an incremental risk assessment (3(C)(7) Finding) of the proposed conditional registration of Scotts Turf Manager, Scotts Turf Manager II, and Scotts Turf Manager for St. Augustine grass for use on lawns. Based upon the available data, EEB concludes that the proposed uses provide for no significant increase in hazards to nontarget organisms.

Ken Clark
Agronomist
EEB/HED

Date: 7.3.85

Dave Copping
Section Head, 3
EEB/HED

Date: 7.5.85

Michael Slimak
Chief
EEB/HED

Date: 7-5-85
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
__ A draft product label
__ The product confidential statement of formula
__ Information about a pending registration action
__ FIFRA registration data
__ The document is a duplicate of page(s) _________
__ The document is not responsive to the request

The information not included is generally considered confidential by product registrants. If you have any questions, please contact the individual who prepared the response to your request.