

EEE BRANCH REVIEW

DATE: IN _____ OUT _____ IN 10/17/77 OUT 11/29/77 IN _____ OUT _____
FISH & WILDLIFE ENVIRONMENTAL CHEMISTRY EFFICACY

FILE OR REG. NO. 612-75
PETITION OR EXP. PERMIT NO. 6F1860
DATE DIV. RECEIVED _____
DATE OF SUBMISSION _____
DATE SUBMISSION ACCEPTED _____
TYPE PRODUCT(S): I, D, H, (F), N, R, S _____
PRODUCT MGR. NO. 21 Wilson
PRODUCT NAME(S) Martact 340-F
COMPANY NAME Merck
SUBMISSION PURPOSE Postharvest use sugarbeets
CHEMICAL & FORMULATION Thiabendazole (2-(4-thiazolyl)benzimidazole).

1.0 Introduction

1.1 Thiabendazole

1.1 Percent Active: 42.28

Flowable formulation.

1.2 This is a submission for use of Thiabendazole as a postharvest use for sugar beets (storage), and a request for increased tolerance from 4-6 ppm.

2.0 Directions for Use

SUGAR BEETS (Postharvest Treatment) - Reduce rot caused by Penicillium, Botrytis, and Fusarium species: Mist sugar beet roots as they enter storage with 0.42 fl. oz. of MERTECT 34-F to each 2,000 lb. of sugar beet roots in sufficient water for complete coverage. (0.42 fl. oz. of MERTECT 340-F is equivalent to 0.2 oz. of 2-(4-thiazolyl) benzimidazole.) Roots should be treated within 72 hours after lifting.

2.1 Disposal

Do not apply when weather conditions favor runoff or drift. Keep out of lakes, ponds, or streams. Do not contaminate water by cleaning of equipment or disposal of wastes.

3.0 Discussion

No new Environmental Chemistry data submitted. We have not validated previously submitted data per Dr. Roggoff's memo to Mr. Camp of 8/12/77.

4.0 Conclusions

Since this is not a ground application, but a commercial processing type application for storage (postharvest) the warrant for an EC review is questionable. Our concern here would be disposal of spent solution after treatment, however, the label restriction under disposal would satisfy this question.

5.0 Recommendation

5.1 PM NOTE

We assume that Mertect 240-F is currently registered for use on sugarbeets. Since the application is for use on sugarbeet roots (postharvest) for storage (to control certain fungi), the added incremental risk for this use is small. Rationale as follows:

- (1) This is not a ground or foliar application.
- (2) A total of 0.42 fl./oz./2,000 lbs of sugarbeets is used compared to 6-12 fl. oz. for ground application.
- (3) Storage usually is indoors.
- (4) Assume product currently registered for sugarbeets (from label given us).
- (5) Above comments may not warrant an EC review.
- (6) Disposal question satisfied.
- (7) The above fall under the policy memo from Mr. Johnson to Mr. Compt of 5/12/77.

5.2 Previously submitted data has not been validated per Dr. Rogoff's memo to Mr. Compt of 8/12/77.

RE: 12/12/77

Ronald E. Ney, Jr.
11/29/77

Robert F. Carsel

Environmental Chemistry Section
Efficacy and Ecological Effects Branch

Robert F. Carsel 12/12/77