UNITED STATE STRVIKE IN THE PROTECTION " TENCY

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BJECT: Mertnet 360 Fungicide and Thertest 340 F Functions in (new use for old chemical), request for registrations

DATE: January 30, 1974

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FROM:

TO:

Mr. Lee TerBush Acting Chief Coordination Branch

Registration Nos.: 618-69-AA and 618-75-AA.

Registrant: Merck & Co., Inc.

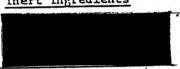
Rahway, N.J. 07065

Date of Application: September 21, 1973.

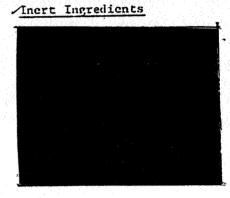
Formulations: 60% Thiabendazole*

142.28% Thiabendazole*

Inert Ingredients



INERT INGREDIENT INFORMATION IS NOT INCLUDED



Use: Fungicide, to control black rot, scurf, and foot rot.

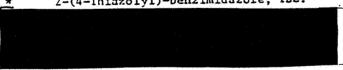
Application Site: Sweet potato "seed roots."

Application Rate: One 1b Mertect 360/15 gallons water; 16 fluid ounces

Mertect 340 F/15 gallons water (=4,700 ppm TBZ

as initial dosage in each case).

2-(4-Thiazolyl)-benzimidazole; TEZ.



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PRODUCT INGREDIENT SOURCE INFORMATION IS NOT INCLUDED

EPA Form 1329-6 (Rev. 6-72)

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Page 2 - 618-69-AA in HP018-75-AA

Structure:

C0197)

INERT INGREDIENT INFORMATION IS NOT INCLUDED

Pertiaent PP's: PP No. 3E1376 (establishes tolerance at 0.02 ppm T3Z in or on sweet potatoes).

Regulatory Status of Inerts:



Thus, the "inerts" of Mertect 340 F (618-75-AA) either are cleared or are probably cleared for use under Federal regulation.

Toxicity Data:

No new toxicity data accompany these applications. However, following information was found in old TOX FILE No. 254, courtesy of Mrs. Elsie Kelly:

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VFor Merical 340 F (018-75-AA), TEX flowable formulation No. 01007-F:

- Primary skin irritation* test was negative but showed it to be mildly irritating to the skin.
- ✓ Oral LD₅₀ (mouse) = 3.05 (2.23-4.17**) g/kg body weight (BW).

 Symptoms that were shown include: Ptosis, ataxia, decreased activity, bradypnea, loss of righting reflex, and general depression preceding death.

VAcute eye irritation*** test was negative, but showed it be slightly irritating to the eye.

For Mertect 360 (618-69-AA), 60% TBZ wettable powder (UP), which has same formulation as Mertect 160 MP (618-65), following studies were done by Merck (found in old TOX FILE No. 254):

Primary skin irritation**** test showed it to be a mild primary irritant.

Oral LD₅₀ (rat, M) = 5.23 g/kg EW (4.36-6.27**)

Oral LD50 (rat, F) = 5.04 g/kg BW (4.25-5.97**)

Oral LD₅₀ (mouse, F) = 7.40 g/kg BW (6.34-8.64**) Symptoms, as for Mertect 340 F.

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Determined on three rabbits, with 0.1 ml test substance applied to each of two sites (one intact, one abraded) per rabbit. All sites showed slight edema at 24 hours; very slight edema and very slight erythema at 48 hours; and scaling of skin within 5 days but no irritation. At 14 days, all sites, "essentially normal."

Ninety-five per cent fiducial limits.

Done on four rabbits. One-tenth ml test material put in conjunctival sac of one eye of each rabbit and lids held together for one minute. Eyes could not be read at 1 minute; since thickness and color of test material obscured the eye. Moderate injection of conjunctiva, seen in 4/4 rabbits at 1/4, 1, and 2 hours, and slight mucous discharge in 1/4 rabbits at 1/4 hour. No irritant effects, at 24 hours, and eyes, thereafter, normal for two-week observation period.

One on six rabbits, using 0.5 g test material on each of two sites (one abraded, one intact) per rabbit. Slight edema and erythema, seen, at 24 hours, in intact and abraded skin sites in 3/6 rabbits. At 48 hours, one of these three still showed these effects, and, at 72 hours, it had slight erythema at abraded site only. All others, negative. No latent effects, seen during two-week observation period.