

EFFICACY REVIEW

DATE: IN 4/23/81 OUT 5/11/81

FILE OR REG. NO. 100-607

PETITION OR (EXP. PERMIT NO.) 1H5299;1F2500

DATE DIV. RECEIVED 4-15-81

DATE OF SUBMISSION 4-15-81

DATE SUBMISSION ACCEPTED _____

TYPE PRODUCT(S): I, D, H, (F,) N, R, S _____

DATA ACCESSION NO(S). N/A

PRODUCT MGR. NO. 21

PRODUCT NAME(S) RIDOMIL (R) 2E

COMPANY NAME Ceiba-Geigy Corporation

SUBMISSION PURPOSE add: 8 vegetable and 3 field crops to control certain
Pythium, Phytophthora, and downy mildew diseases

CHEMICAL & FORMULATION Metalaxyl.....25.11 EC
[2 lbs. active/gallon]

EFFICACY REVIEW --Fungicides

200.0 Introduction.--The purpose of this submission is to add additional fungicide uses to the label involving 11 new crops (8 vegetable and 3 field crops). The product is currently registered for use on tobacco and has a pending use on conifer seedlings and nonbearing citrus.

200.1 Uses.--(See labeling for detailed directions for use)

- 1) Cole Crops (Cabbage, Broccoli, Cauliflower) --Downy Mildew: apply as a foliar spray.
- 2) Cotton--Seed rots and Seedling diseases (Pythium and Phytophthora spp. only): apply as a seed treatment.
- 3) Lettuce (head), Spinach--Downy Mildew: apply as a foliar spray.
- 4) Onions (dry bulb and green)--Downy Mildew: apply as a foliar spray
- 5) Potatoes--Late blight (leaf blight and tuber rot): apply as a foliar spray tank mixed with Dithane (R)M-45, Manzate^R 200, Bravo^R 6F or Difolatan^R 4F. Early and Late Blight: apply as a foliar spray tank mixed with fungicides listed above at more frequent intervals and different dosage rates.
- 6) Soybeans--Pythium Damping-Off, Phytophthora Seeding Root and Stem Rot: apply as an at planting soil spray broadcast or band treatment.
- 7) Tomatoes--Late Blight: apply as a foliar spray tank mixed with Bravo^(R) 6F. Early and Late Blight: apply as a foliar spray tank mixed with Bravo^(R) 6F more frequently and at different rates than for Late Blight alone. Seeding Damping--Off (Pythium spp): apply as a soil surface spray, immediately before or after planting, as a broadcast or band treatment. Fruit Rot (Pythium and Phytophthora spp.): apply as a soil surface spray under the vines 6-8 weeks before harvest.
- 8) Wheat--Pythium Seeding Diseases: apply as a pre- or at planting soil surface spray broadcast treatment.

201.0 Data Summary.--Submittal of efficacy data waived.

202.0 Conclusions and Recommendations.--The proposed label amendment for uses on certain vegetables and field crops is unacceptable until the following comments are resolved:

- 1) Specify the volume of water or depth of incorporation, as appropriate, for soybean, wheat, and tomato fruit rot uses.

- 2) Under "Cotton" amend label directions for use to indicate:
(a) the type of cottonseed to be treated [i.e., acid delinted, fuzzy, reginned (machine delinted)] ;(b) the type(s) of application equipment intended to be used (e.g., slurry, ready-mix, or specific brands); (c) any applicable dilution rates or limitations; (d) maximum time before planting that treatment should be applied; (e) that an EPA approved dye, which imparts an unnatural color to the seed, must be added to the treatment; (f) any pertinent pre- or posttreatment procedures (e.g., drying of seed after treatment); and (g) that the user must label any treated seed containers with the statement "Treated seed: Do not use for food, feed, or oil purposes."
Note: If future seed treatment uses are added to the label this statement should be moved to the general use directions portion of label.
- (3) The purpose of the proposed tank-mixes for control of "Late Blight" on "Potatoes" and "Tomatoes" must be specified. If these tank mixes are intended for the purpose of possibly delaying the development of resistant late blight fungi they would be unacceptable. See our comments on the tobacco plant ^{foliar} tank-mixture proposal to resolve this objection. Note: The convenience tank-mixture recommendations for the combined control of late blight and early blight on these crops are acceptable. (submitted 3-17-8)
- (4) Under "Potatoes, Early and Late Blight" change "Apply 1/4-1/2 pt. of Ridomil in... " to read "Apply 1/4-1/2 pt. Ridomil per acre in...".
- (5) Under "Tomatoes, Seedling Damping-Off" change "Apply 4 pts. Ridomil 2E per acre immediately..." to read "Apply 4 pts. Ridomil 2E per acre as a broadcast application immediately...". Also in the dosage calculation formula for band applications change "Row width in inches" to "Row spacing in inches".

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E 4/15/81