

US EPA ARCHIVE DOCUMENT

263585
RECORD NO.

113501
SHAUGHNESSEY NO

44
REVIEW NO.

JAN 2 1991

EEB REVIEW

DATE: IN 05/14/90 OUT _____

FILE OR REG. NO. 100-607

PETITION OR EXP. NO. _____

DATE OF SUBMISSION 04/19/90

DATE RECEIVED BY EFED _____ 05/10/90

RD REQUESTED COMPLETION DATE _____ 09/02/90

EEB ESTIMATED COMPLETION DATE _____ 09/02/90

RD ACTION CODE/TYPE OF REVIEW _____ 301

TYPE PRODUCT(S) _____ Fungicide

DATA ACCESSION NO(S) _____

PRODUCT MANAGER, NO. _____ Chambliss (21)

PRODUCT NAME(S) _____ Metalaxyl

COMPANY NAME _____ Ciba-Geigy

SUBMISSION PURPOSE _____ Review to amend the registration

_____ on hops.

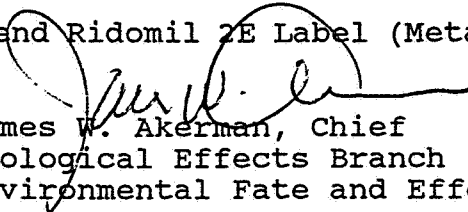
SHAUGHNESSEY NO. _____ CHEMICAL _____ % A.I. _____

113501 _____ Metalaxyl _____ 25.1

JAN 2 1991

MEMORANDUM

SUBJECT: Amend Ridomil 2E Label (Metalaxyl) to Include Use on Hops

FROM:  James W. Akerman, Chief
Ecological Effects Branch
Environmental Fate and Effects Division (H7507C)

TO: Benjamin Chambliss, PM 21
Herbicide-Fungicide Branch
Registration Division (H7505C)

The Ecological Effects Branch (EEB) has completed its review of the request by Ciba-Geigy Corporation to amend its metalaxyl label to include use on hops. In a review dated March 6, 1990, EEB anticipated no hazard to fish or birds from this new use, however the hazard to nontarget aquatic plants was uncertain. Consequently, submission of aquatic plant growth studies were requested. The following is a brief review of the submitted aquatic plant growth studies:

The Toxicity of CGA-48988 Lot No. FL-841922 to Lemna gibba G3 (Duckweed). Conducted by Malcolm Pirnie, Inc., Submitted by Ciba-Geigy Corporation, Greensboro, NC. Accession No. 257626.

The study is scientifically sound and fulfills the guideline requirement for a Tier II aquatic plant growth test using the aquatic macrophyte Lemna gibba. Metalaxyl with an EC50 of 85 mg/L (dry weight) and 92 mg/L (frond count) is not expected to exert a detrimental effect on Lemna gibba at current application rates. Assuming an inadvertent direct application to a pond 6-feet deep at the maximum rate for hops of 0.5 lb ai/a, the water concentration would be 30.6 ppb. This concentration is well below the EC50 value for Lemna gibba.

The Toxicity of CGA-48988 Lot No. FL-841922 to Selenastrum capricornutum. Conducted by Malcolm Pirnie, Inc., Submitted by Ciba-Geigy Corporation, Greensboro, NC. Accession No. 257626.

The study is scientifically sound and fulfills the guideline requirement for a Tier II aquatic plant growth test using the freshwater green algae Selenastrum capricornutum. Metalaxyl with an EC50 of 140 mg/L (cells/ml) is not expected to exert a detrimental effect on Selenastrum capricornutum at current application rates. Assuming an inadvertent direct application to a pond 6-feet deep at the maximum rate for hops of 0.5 lb ai/a, the water concentration would be 30.6 ppb. This concentration is well below the EC50 value for Selenastrum capricornutum.

EEB has reviewed the proposed label amendment for Ridomil 2E to include use on hops. The proposed use should not present a hazard to nontarget organisms. No hazard to endangered species is anticipated under the proposed use.