

US EPA ARCHIVE DOCUMENT

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SHAUGHNESSY NO.

REVIEW NO.

EEB REVIEW

DATE: IN 01/16/86 OUT 01/28/86

FILE OR REG. NO. 359-706

PETITION OR EXP. PERMIT NO. _____

DATE OF SUBMISSION 10/16/85

DATE RECEIVED BY HED 01/13/86

RD REQUESTED COMPLETION DATE 03/26/86

EEB ESTIMATED COMPLETION DATE 03/19/86

RD ACTION CODE/TYPE OF REVIEW 316

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

DATA ACCESSION NO(S). _____

PRODUCT MANAGER NO. H. Jacoby (21)

PRODUCT NAME(S) Aliette

COMPANY NAME Rhone-Poulenc, Inc.

SUBMISSION PURPOSE Registrant response concerning previous

EEB review of turf use

SHAUGHNESSY NO. _____ CHEMICAL, & FORMULATION _____ % A.I. _____



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF
PESTICIDES AND TOXIC SUBSTANCES

MEMORANDUM

SUBJECT: Residue Study Supporting Registration of the
Fungicide Aliette for Use on Turf

FROM: Thomas M. Armitage *Thomas M. Armitage (1-31-86)*
Fisheries Biologist
Ecological Effects Branch
Hazard Evaluation Division (TS-769C)

THRU: Raymond W. Matheny *Raymond W. Matheny*
Head, Section 1
Ecological Effects Branch
Hazard Evaluation Division (TS-769C)

and

Michael Slimak 2/5/84
Michael Slimak, Chief
Ecological Effects Branch
Hazard Evaluation Division (TS-769C)

TO: H. Jacoby
Product Manager (21)
Registration Division (TS-767c)

Ecological Effects Branch (EEB) has reviewed the registrant's (Rhone-Poulenc, Inc.) response to our requirement for a study to determine the rate of degradation of the fungicide aliette on turf foliage and thatch. This study was required because preliminary estimated environmental concentrations of aliette in shallow water showed that marine bivalves could be exposed to concentrations of the fungicide approaching 1/3 the EC₅₀ for oyster embryo larvae.

The registrant has indicated that the use of aliette to control pythium fungus on golf courses will present no hazard to marine organisms. The registrant notes that minimal exposure will result from this use because:

1. The turfgrass to which aliette would be applied is grown under conditions of high temperature and humidity, and is watered at least once per day. This would result in absorption of residues into the sandy loamy soil present on most golf courses near estuarine waterways. Alette has a half life of only 14 hours in sandy loamy soil.
2. There are only [REDACTED] golf courses within 2 miles of coastal areas and within climatic regions subject to pythium infection. The registrant indicates that aliette would probably be used on only half of these golf courses [REDACTED]

Upon review of the additional information provided by the registrant, and the available toxicity data, EEB concludes that the turf dissipation study should not be a condition of registration.