US EPA ARCHIVE DOCUMENT

FILE

Date Out EFB: FEB 26 1982

To: Product Manager 16 Miller
TS-767

From Dr. Willa Garner
Chief, Review Section No. 1
Environmental Fate Branch

Attached please find the environmental fate review of:

Reg./File No.: 10182-LI

Chemical: Brodifacoum

Type Product: Rodenticide

Product Name: Volid

Company Name: ICI

Submission Purpose: Rodenticide - pack and bait - use in orchards

ZBB Code: other

Date in: 2/2/82

Date Completed: FEB 26 1982

Deferrals To:

_____ Ecological Effects Branch

_____ Residue Chemistry Branch

_____ Toxicology Branch

ACTION CODE: 170

EFB # 158

TAIS (level II)	Days
67	0.5

1. INTRODUCTION

1.1 The registrant, ICI Americas, Inc., is requesting conditional registration of VOLID Rodenticide Pellets for use in fruit and nut orchards during dormant season in the states of Virginia, West Virginia, Maryland and Pennsylvania.

1.2 The product is 0.001% active ingredient (brodifacoum).

1.3 The registrant has referenced some previously reviewed data.

2. DIRECTIONS FOR USE

2.1 Apply up to 20 lb of product per acre by spot baiting or broadcast baiting

2.2 It is recommended that all hand bait applications be individually covered with boards, shingles or other covers. Do not apply if rain is expected within 3 days, or 7 days of picking up dropped fruit since vole burrows will have been disturbed.

3. DISCUSSION OF DATA

3.1 The following data was referenced:

J1 - Fate of Broadifacoum in Soil Under Laboratory Conditions
J2 - Hydrolysis Study
J3 - Soil Adsorption Study
J4 - Soil Mobility Study
J5 - Soil Residue Method
J6 - Persistence of Brodifacoum in Soil Under Field Conditions

3.2 Studies J-1 and J-2 cited above were reviewed in the EFB evaluation of 10182-EA dated August 31, 1979 as was an interim report of study J-6.

3.3 Use of VOLID at the maximum rate is equivalent to 0.0002 lb ai/A. At that poundage per acre, the active ingredient or degradation products would not be detectable in the soil.

4. RECOMMENDATIONS

4.1 We concur with the conditional registration of VOLID Rodenticide in fruit and nut orchards as proposed. The low poundage of ai per acre is noted.

4.2 Of the data referenced by the registrant (see section 3.1, above), EFB has not seen studies J-3, J-4, J-5 or a final version of study J-6. EFB suggests those studies be submitted for scientific review.

Samuel M. Creeger
February 26, 1982
Section #1/EFB
Hazard Evaluation Division