

US EPA ARCHIVE DOCUMENT

May 13 1980

FILE COPY

To: Product Manager Garner (23)
TS-767

Through: Dr. Gunter Zweig, Chief
Environmental Fate Branch

From: Review Section No. 1
Environmental Fate Branch

Attached please find the environmental fate review of:

Reg./File No.: 707-EUP-OA PPOG2332

Chemical: Acifluorfen, sodium salt

Type Product: Herbicide

Product Name: Blazer™ 2L

Company Name: Rohm and Haas.

Submission Purpose: Expansion of existing EUP from 22 acres to 220 acres (88 lbs a.i. to 880 lbs a.i.) same states
Establish temporary tolerance for peanuts.

EFB #414 & 415 Action Code 272 & 230

ZBB Code: Sec. 5

Date in: 03/28/80

Date Due: 06/23/80

Date Completed: MAY 7 1980

Deferrals To:

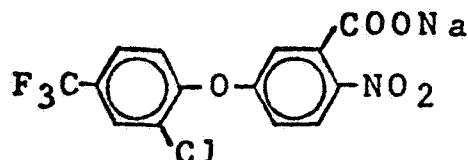
- Ecological Effects Branch
- Residue Chemistry Branch
- Toxicology Branch

1.0 Introduction

1.1 Trade Name: Blazer 2L Herbicide. This formulation contains 2 pounds ai per gallon.

1.2 Active Ingredient: Acifluorfen (Sodium 5-[2-chloro-4-(trifluoromethyl)-phencxy]-2-nitrobenzoate.

1.3 Chemical Structure:



1.4 Submission Purposes: Expansion of existing EUP on peanuts (see Review 5/14/79) from 22 acres, to 220 acres (88 lbs ai to 880 lbs ai). Also see previous reviews for registration of Blazer 2L on Soybeans (4/22/80). The duration of the EUP will be 1 year. (&1/3/80)

1.5 Experimental Program

State	(Blazer 2L) lbs active	Acres
VA	80	20
NC	80	20
SC	80	20
GA	160	40
FL	160	40
AL	160	40
OK	80	20
TX	80	20

Size of entire program	220 acres maxium
Size of test sites	2.5 to 10 acres each
Timing of application	May/June/July
Type of Application	Preemergence and/or Post emergence Sprays

2.0 Dosage Rates:

Pre-Emergence: Mix Blazer 2L with water. Apply 1 to 2 lbs active per acre. Spray equipment should be calibrated to deliver a minimum of 20 gallons spray per acre. Fields to be treated should be well worked with smooth seed beds in firm condition. Application should follow seeding.

Post-Emergence: Mix Blazer 2L with water. Apply 0.5 to 1.0 lbs active per acre. Triton AG-98 (nonionic surfactant) is added to give a concentration of 0.125% v/v. Spray equipment should be equipped with hollow cone or flat fan nozzles and calibrated to deliver a minimum of 20 gallons of spray mixture per acre. A spray pressure of 40 psi at the nozzle tip is suggested to assure adequate coverage of weeds. Blazer 2L should be applied to young and actively growing weeds.

Peanuts are tolerant to pre-and postemergence applications of Blazer 2L when applied at the recommended growth stages and suggested dosage rates. Peanut foliage may exhibit leaf cupping, crinkling and speckling, particularly on the youngest leaves present at the time of application.

Use Precautions:

Blazer 2L herbicide requires a six hour rain-free period for best results.

Do not mix Blazer 2L with oils, drift control agents, liquid fertilizers or pesticides.

Avoid drift to all other crops and non-target areas. Do not apply Blazer 2L within 75 days of harvest.

Do not apply more than 4 pints of Blazer 2L per growing season from post emergence application or a total of 8 pints from combined pre and post emergence application.

5.0 Recommendations

5.1 The environmental fate is known. Hydrolysis, aerobic soil metabolism and rotational crop studies have been submitted to support the EUP.

5.2 EFB concurs with the issuance of the EUP.

Note to PM:

1. It is noted that Triton AG - 98 (nonionic surfactant) is added to the Blazer 2L mixture (.125% v/v) for postemergence treatment.

2. Under use precautions the following statement is made:

Do not apply more than 4 pints of Blazer 2L per growing season...

This statement should be clarified. It is unclear as to whether or not the company means 4 pints per acre.

John R. Harris

John R. Harris
Environmental Fate Branch
Hazard Evaluation Division