

US EPA ARCHIVE DOCUMENT

FILE COPY

Date Out EFB: MAY 27 1980

To: Product Manager Stone (23)
TS-767

Through: Dr. Gunter Zweig, Chief
Environmental Fate Branch

Garner

From: Review Section No. 1
Environmental Fate Branch

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Attached please find the environmental fate review of:

Reg./File No.: 707-EUP-96, 0G2339

Chemical Acifluorfen

Type Product: Herbicide

Product Name: Blazer 2S

Company Name: Rohm and Haas

Submission Purpose: EUP for use on rice

ZBB Code: Sect 5

Date in: 4/28/80

Date Completed: MAY 27 1980

ACTION CODE: 270,230

EFB #439,440

Deferrals To:

_____ Ecological Effects Branch

_____ Residue Chemistry Branch

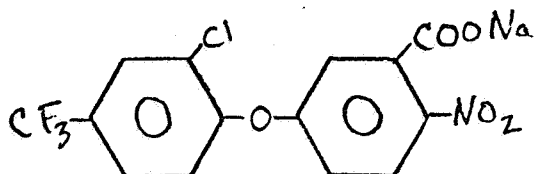
_____ Toxicology Branch

1. Introduction

Chemical Name and Type Pesticide: Acifluorfen (sodium 5-[2-chloro-4-(trifluoromethyl)-phenoxy]-2-nitrobenzoate, 21.4% a.i., Herbicide.

Trade Name: BLAZER 2S

Chemical Structure:



Registrant is applying for an experimental use permit for BLAZER 2S herbicide on rice. The program will involve 150 lbs of active ingredient on 1,200 acres covering AR, LA, MS, and TX for one year and will be aimed at the selective control of sesbania in rice. BLAZER is presently registered for use on soybeans.

2. Directions for Use

Apply BLAZER 2S by aircraft using nozzling to deliver from 5 to 10 gallon of total spray per acre. Use one half pint, 8 ounces, BLAZER 2S per acre of rice. Sesbania should be actively growing but not in the flowering stage. Best control is obtained when sesbania is above the rice plants.

Use Precautions

Do not mix BLAZER 2S with oils, drift control agents, liquid fertilizers, or pesticides.

Avoid drift to all other crops and non-target areas.

Do not apply BLAZER 2S to rice after it reaches the boot stage.

Do not apply more than one application per season nor exceed 1/2 pint (0.125 lb. active) per acre

3. Discussion of Data

No new EC data were submitted.

4. Recommendation

EFB concurs with the proposed use of BLAZER under the requested EUP, since its environmental fate is known (it is presently registered on soybeans). A request for full registration on rice would require additional data, since use on rice is a new use (aquatic) and differs from the terrestrial use on soybeans.

Minimal data, some of which have been submitted with the soybean use, must be referenced or submitted to support registration on rice are:

- 1) Degradation (hydrolysis and photodegradation)
- 2) Metabolism (aerobic aquatic and anaerobic aquatic, effects of pesticide on microbes and effects of microbes on pesticide)
- 3) Mobility (adsorption/desorption, water dispersal)
- 4) Field dissipation (soils and water)
- 5) Accumulation (rotational crop, irrigated crop, fish accumulation)
6. Activated sludge (If the treated water from the rice field is to enter a sewage treatment plant, this study will be needed)

Cautions needed on the label are:

"Do not use treated water to irrigate other crops."

"Do not harvest crawfish or crayfish in treated area for food."

"Do not rotate to other crops within 18 months of application."

Herbert L. Manning
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