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

Chem. file 084301
1-14-91

OFFICE OF
PESTICIDES AND TOXIC
SUBSTANCES

January 14, 1991

MEMORANDUM

SUBJECT: Transmittal of EFED List B Review for Benfluralin (Case # 2030; Chemical # 084301)

FROM: Jean Holmes *Jean Holmes*
Science Analysis and Coordinatin Staff
Environmental Fate and Effects Division

THRU: Amy Rispin, Chief *Amy Rispin*
Science Analysis and Coordinatin Staff
Environmental Fate and Effects Division

TO: Jay Ellenberger, Chief
Generic Chemical Support Branch
Special Review and Reregistration Division

Attached please find the following documents for the completed EFED review of Benfluralin.

1. EFGWB review and data requirements table
2. EEB review and data requirements table
3. SACS Reregistration Summary Report

If you have any questions concerning this case, please contact Jean Holmes at 557-1694.

cc (with SACS Reregistration Summary Report attached)

Anne Barton
Paul Schuda
List B File
List B Cover Memo File

Hank Jacoby
Bob Holst

Jim Akerman
Doug Urban

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SACS REREGISTRATION SUMMARY REPORT
for Phase IV

FROM: Jean W. Holmes *Jean W. Holmes* Date 1-14-91

THRU: Amy Rispin *Amy Rispin*

TO: Tom Luminello

Active Ingredient:

List B

Benfluralin

1. Use Pattern (Sites) and Application Rate.

EFED reviewed this chemical for the following use groups and sites:

A. Terrestrial Non-Food Crop for tobacco, recreation area lawns, commercial/industrial lawns, and golf course turf.

B. Terrestrial Non-Food Crop and Outdoor Residential for ornamental herbaceous plants, ornamental lawns and turf, ornamental woody shrubs and vines, and ornamental and/or shade trees.

C. Terrestrial Food and Feed Crop for alfalfa, and peanuts.

D. Terrestrial Food Crop for lettuce.

E. Terrestrial Feed Crop for birdsfoot trefoil, and clover.

The maximum application rate for all Benfluralin products is not stated in the Luis report. However, the maximum application rate was not needed to review the studies.

2. Registration Information

A. Kind of pesticide. (insecticide, herbicide, etc.)

EFED has reviewed Benfluralin as a Herbicide.

B. Target pest.

Weeds

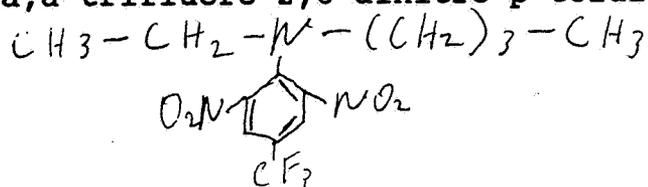
C. Method of application.

According to the Luis report Benfluralin is applied by:

- 1) Broadcasting with a spreader.
- 2) Soil incorporated treatment with low pressure ground equipment.
- 3) Soil incorporated treatment with ground equipment.
- 4) Chemigation with sprinkler irrigation.
- 5) Spot treatment.
- 6) Spray with a regular sprayer or hose-end sprayer.

D. Formulation Issues and Structure.

There are other active ingredients in several Benfluralin products. The chemical structure for Benfluralin, N-Butyl-N-ethyl-a,a,a-trifluoro-2,6-dinitro-p-toluidine is as follows:



3. EEB Disciplinary Summary To highlight special issues

There is some concern that the use of Benfluralin can lead to potential problems for aquatic nontarget organisms. There is sufficient information to characterize the material as highly to very highly toxic to freshwater fish. The EEC following an application of Benfluralin at the maximum rate is expected to exceed the LC₅₀ for fish.

4. EFGWB Disciplinary Summary To highlight special issues

Benfluralin has the potential to lead to spray drift problems. Because of the use pattern, data is being required for the Droplet Size Spectrum (201-1) and Field Spray Drift Evaluation (202-1) studies so spray drift potential can be evaluated.

5. Integrating Paragraph to highlight special issues

None at this time.

6. Studies to be flagged for early review for tier or other decisions

When the basic environmental fate studies are received they should be put into review.

7. Any data waivers, special considerations, or special study needs? (special information needed for data waivers)

None at this time.