


US EPA ARCHIVE DOCUMENT

File

Shaughnessy No.: 122010

Date Out of EAB: JUN 05 1985

To: Robert Taylor
Product Manager 25
Registration Division (TS-767)

From: Samuel Creeger, Chief 
Review Section #1
Exposure Assessment Branch
Hazard Evaluation Division (TS-769)

Attached, please find the EAB review of...

Reg./File # : 352-EUP-111
Chemical Name: Metsulfuron Methyl
Type Product : Herbicide
Product Name : ALLY
Company Name : DuPont
Purpose : Response to review of 7/12/84 : accumulation in fish

Action Code(s): 705 EAB #(s) : 5383
Date Received: 2/12/85 TAIS Code: 52
Date Completed: 6/4/85 Total Reviewing Time: 1.0 days

Deferrals to: _____ Ecological Effects Branch
_____ Residue Chemistry Branch
_____ Toxicology Branch

1. CHEMICAL:

Metsulfuron Methyl, DPX T6376
Methyl 2-[[[(4-methoxy-6-methyltriazin-2-yl)-amino]carbonyl]-amino]sulfonylbenzoate

2. TEST MATERIAL:

Analytical grade, phenyl-labeled metsulfuron methyl

3. STUDY/ACTION TYPE:


Accumulation in Fish. Response to review of 7/12/84. Data to support proposed EUP use on Cereals.

4. STUDY IDENTIFICATION:

Han, J. C-J. and J. J. Anderson. 1984. Residue Studies with [¹⁴C] Metsulfuron Methyl in Bluegill Sunfish. Document No. AMR-81-82. Revision 1. (Company Confidential). Experimental Station, Research Division, Agricultural Chemicals Department, E.I. duPont, December 18, 1984. Accession No. 256626

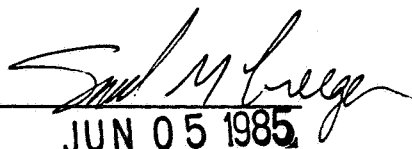
5. REVIEWED BY:

Emil Regelman
Chemist
EAB/HED/OPP

Signature: 
Date: 6/4/85

6. APPROVED BY:

Samuel Creeger
Chief
Review Section #1, EAB/HED/OPP

Signature: 
Date: JUN 05 1985

7. CONCLUSIONS:

The deficiencies noted in the review of 7/12/84 have been resolved. This study, as amended, is acceptable in support of the accumulation in fish data requirement.

8. RECOMMENDATIONS:

The following data requirements have been satisfied for purposes of the proposed EUP use on Cereals: Hydrolysis, Aerobic Soil Metabolism and Accumulation in Fish. The Confined Accumulation in Rotational Crops and Leaching data requirements have still not been satisfactorily addressed.

9. BACKGROUND:

A. Introduction

On 7/12/84, EAB completed its review of the initial draft of study noted in §4, above. At that time, the study was found to be scientifically valid. Metsulfuron methyl did not appear to have any propensity to bioaccumulate in the blue-gill sunfish tested.

EAB raised a number of questions relative to that study which the current submission addresses.

B. Directions for Use

See review of 5/20/83.

10. DISCUSSION OF INDIVIDUAL TESTS OR STUDIES:

A. Study Identification

Han, J. C-J. and J. J. Anderson. 1984. Residue Studies with [¹⁴C] Metsulfuron Methyl in Bluegill Sunfish. Document No. AMR-81-82. Revision 1. (Company Confidential). Experimental Station, Research Division, Agricultural Chemicals Department, E.I. duPont, December 18, 1984. Accession No. 256626

B. Issues raised in EAB review of 7/12/84, and Registrant's responses thereto

10.A.1 EAB Comment : Method used to dose aquaria was not specified.

DuPont Response: The initial dosing of the two test tanks resulted in establishment of the desired level of test material (1.0 and 0.01 ppm). Monitoring throughout the 28 day uptake phase confirmed that levels remained nominal. No degradation products were detected in any water sample taken.

- 10.A.2 EAB Comment : Sample TLC chromatograms were not submitted.
DuPont Response: Due to the extremely low uptake, no TLC quantification was done.
- 10.A.3 EAB Comment : Raw counting data were not submitted.
DuPont Response: Counting data were included with this submission.
- 10.A.4 EAB Comment : It was not reported whether any fish died.
DuPont Response: No fish died throughout the experimental period.

C. Reported Results

D. Study Author's Conclusions/Quality Assurance Measures

E. Reviewer's Discussion and Interpretation of Study Results

All outstanding issues relative to the cited study have been satisfactorily addressed by the registrant.

11. COMPLETION OF ONE-LINER:

No additional data have been added to the ongoing one-line data summaries.

12. CBI APPENDIX:

There is no CBI appendix.