

2-12-87

Shaughnessy No.: 125851

Date Out of EAB: 2/12/1987

To: R. Mountfort
Product Manager 23
Registration Division (TS-767)

From: Dr. James Adams, Chief (acting) *JDA*
Review Section #1
Exposure Assessment Branch
Hazard Evaluation Division (TS-769)

Attached, please find the EAB review of...

Reg./File # : 1471-RLI, 1471-RLO
Chemical Name: Isoxaben
Type Product : Herbicide
Product Name : _____
Company Name : Elanco
Purpose : New Chemical/First non-food use screen

Action Code(s): 125 EAB #(s) : 70244-70245
Date Received: 2/10/87 TAIS Code: _____
Date Completed: _____ Total Reviewing Time: 0.3 days

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

Monitoring study requested by EAB: _____

Monitoring study voluntarily conducted by registrant: _____

1. CHEMICAL: Common name: Isoxaben

Chemical name: N-[3-(1-Ethyl-1-methylpropyl)-5-isoxazolyl]-
2,6-dimethoxybenzamide

2. TEST MATERIAL: See individual studies.

3. STUDY/ACTION TYPE: New chemical/ First non-food use screen

4. STUDY IDENTIFICATION: See individual studies.

5. REVIEWED BY:

Stephen J. Simko
Chemist
EAB/HED/OPP

Signature:

S. Simko
2/12/87

6. APPROVED BY:

Dr. James Adams
Chief (acting), Section 1
EAB/HED/OPP

Signature:

James B. Adams
2/12/87

7. CONCLUSIONS: Studies were submitted for all the necessary categories. and were screened for obvious deficiencies. Two of the studies were flagged.

The photodegradation in water study is deficient because it did not include data on the emission spectrum of the artificial light source.

The field dissipation study may not satisfy data requirements because the soil was not sampled to a sufficient depth (at the earlier sample intervals) to demonstrate the extent of leaching. Degradation products were detected at the deepest soil depths (12 inches) in several samples and it is unknown what residues may have leached into deeper soil layers.

8. RECOMMENDATIONS: A continuous spectrum plotting intensity vs. wavelength of the artificial light source used in the photodegradation study should be submitted. If the deficiencies of the field dissipation study cannot be addressed satisfactorily, a new study may be needed.

9. BACKGROUND: Isoxaben is a new chemical to be used as a herbicide for non-crop uses.

10. DISCUSSION OF INDIVIDUAL TESTS OR STUDIES:

Photolysis Of Isoxaben In Aqueous Solution. D.G. Saunders, J.W. Moran. December 2, 1986. AAC8507.

This photodegradation in water study is deficient because it did not include data on the emission spectrum of the artificial light source.

Isoxaben Soil/Turf Field Dissipation Study. B.S. Rutherford, O.D. Decker. December 1, 1986. AAC8521.

This field dissipation study may not satisfy data requirements because the soil was not sampled to a sufficient depth (at the earlier sample intervals) to demonstrate the extent of leaching. Degradation products were detected at the deepest soil depths (12 inches) in several samples, and it is unknown what residues may have leached into deeper soil layers.

11. COMPLETION OF ONE-LINER: N/A

12. CBI APPENDIX:

No CBI is included.