


FILE COPY

Shaughnessy No.: 125851

Date Out of EAB: DEC 19 1985

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

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

Attached, please find the EAB review of...

Reg./File # : 1471-EUP-TN

Chemical Name: EL-107

Type Product : Herbicide

Product Name : N/A

Company Name : Elanco

Purpose : EUP on wheat and barley (data submitted in response to
previous review -FAB review of Sept. 29, 1983).

Date Received: 7/16/85

Action Code(s): 731

Date Completed: DEC 19 1985

EAB #(s) : 5772

Days: 0.75

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

Monitoring study requested by EAB:

Monitoring study voluntarily conducted by registrant:

1. CHEMICAL:

N-[3-(1-ethyl-1-methylpropyl)-5-isoxazolyl]-2,6-dimethoxybenzamide.

EL-107

PHYSICAL DATA: Please see EAB review of Sept. 29, 1983.

2. TEST MATERIAL: Not applicable

3. STUDY/ACTION TYPE: Adding information in response to deficiencies cited in the EAB review of 9/29/83 of the octanol/water partition coefficient data.

4. STUDY IDENTIFICATION: Octanol/Water Partition Coefficient

5. REVIEWED BY:

Akiva D. Abramovitch, Ph.D.
Chemist
Environmental Chemistry Review Section 1/EAB/HED/OPP

Akiva D. Abramovitch
Date: 12/19/85

6. APPROVED BY:

Samuel M. Creeger, Chief
Supervisory Chemist
Environmental Chemistry Review Section 1/EAB/HED/OPP

Samuel M. Creeger
DEC 19 1985
Date: / / 85

7. CONCLUSIONS:

For a summary of the data from the previous submission see EAB review of Sept. 29, 1983.

The data in this submission enables EAB to accept the octanol/water partition coefficient data. The octanol/water partition coefficient was reported as 434.

Required data for the EUP (wheat and barley) are as follows:

<u>Data Requirement</u>	<u>Satisfied</u>
Hydrolysis	Yes (EAB review of 9/29/83)
Aerobic Soil Metabolism	No (not submitted)
Accumulation in Fish	No (not submitted)
Leaching	No (not accepted-EAB of 9/29/83)
Rotational Crops	No (not submitted)

8. RECOMMENDATIONS:

Aerobic soil metabolism, leaching and crop rotation data must be submitted and accepted by EAB for this EUP (wheat and barley).

An EUP should not be granted at this time.

For registration, photolysis (aqueous and soil), anaerobic soil metabolism, field dissipation and fish accumulation data will also be needed.

9. BACKGROUND:

A. Introduction: Elanco is seeking an EUP for EL-107. This EUP was last considered in the EAB review of 9/29/83.

B. Directions for Use: Please see EAB review of 9/29/83.

10. DISCUSSION OF INDIVIDUAL TESTS OR STUDIES:

A. Study Identification: Octanol/Water Partition Coefficient:

The study was conducted by J. M. Rodewald and J. T. Wilson in 1982 and reviewed in the EAB review of Sept. 29, 1983.

B. Material and Methods:

Additional information concerning the test chemical was submitted by J.M. Rodewald in response to questions cited in the EAB review of 9/29/83.

The test chemical was ¹⁴C labeled in the carbonyl carbon and was found to have a radiochemical purity of 99.8%. The solubility of the test chemical was determined to be 1-5 ppm at pH's of 4-10.

C. Reported Results:

See EAB review of 9/29/83.

D. Study Author's Conclusions:

Octanol/Water partition coefficient was determined to be 434 (see EAB review of 9/29/83).

E. Reviewer's Discussion and Interpretation of Study Results: See EAB review of 9/29/83.

11. COMPLETION OF ONE LINER:

No one liner.

12. CBI APPENDIX:

No CBI Appendix.