

US EPA ARCHIVE DOCUMENT

**DATA EVALUATION RECORD
SEEDLING EMERGENCE TEST
§ 122-1 (TIER I)**

1. **CHEMICAL:** Azoxystrobin PC Code No.: 128810

2. **TEST MATERIAL:** ICIA5504 50 WG Purity: 51.6%

3. **CITATION**

Authors: C.J. Everett, L. Canning, and J.F.H. Cole

Title: ICIA5504: A Tier I Glasshouse Study to Evaluate the Effects on Seedling Emergence on *Abutilon theophrasti*.

Study Completion Date: February 28, 1995

Laboratory: Zeneca Agrochemicals, Bracknell, Berkshire, UK

Sponsor: Zeneca Ag. Products, Wilmington, DE

Laboratory Report ID: RJ1688B

MRID No.: 436781-57

4. **REVIEWED BY:**

William Erickson
Biologist
EEB/EFED/EPA

Signature:

W. Erickson

Date:

4/03/96

5. **APPROVED BY:**

Harry Craven
Section Head 4
EEB/EFED/EPA

Signature:

H. T. Craven
6/21/96

Date:

6. **STUDY PARAMETERS:**

Definitive Study Duration: 29 days

7. **CONCLUSIONS:** This study is scientifically sound but is not a guideline requirement. Application at the maximum label rate (1.0 lb ai/acre) did not adversely affect seedling emergence, visual appearance, or dry matter (yield) of velvetleaf plants more than 7% when compared to the control.

8. **ADEQUACY OF THE STUDY:**

A. **Classification:** Supplemental.

B. **Rationale:** Not a required study. Tier I plant testing was fulfilled under MRID No. 436781-56.

C. **Repairability:** N/A.

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DATA EVALUATION RECORD
SEEDLING EMERGENCE TEST
§ 122-1 (TIER I)

1. **CHEMICAL:** *Acrotian* Sulfentrazone 128810
PC Code No.: 129081
2. **TEST MATERIAL:** ICIA5504 50 WG Purity: 51.6%
3. **CITATION**
Authors: C.J. Everett, L. Canning, and J.F.H. Cole
Title: ICIA5504: A Tier I Glasshouse Study to Evaluate the Effects on Seedling Emergence on *Abutilon theophrasti*.
Study Completion Date: February 28, 1995
Laboratory: Zeneca Agrochemicals, Bracknell, Berkshire, UK
Sponsor: Zeneca Ag. Products, Wilmington, DE
Laboratory Report ID: RJ1688B
MRID No.: 436781-57
DP Barcode: ~~D217072, D217078~~

4. **REVIEWED BY:** Mark Mossler, M.S., Toxicologist,
KBN Engineering and Applied Sciences, Inc.

Signature: *Mark Mossler* **Date:** 1/16/96

- APPROVED BY:** Pim Kosalwat, Ph.D., Senior Scientist
KBN Engineering and Applied Sciences, Inc.

Signature: *P. Kosalwat* **Date:** 1/16/96

5. **APPROVED BY:**

Signature: **Date:**

6. **STUDY PARAMETERS**

Definitive Study Duration: 29 days

7. **CONCLUSIONS:** This study is scientifically sound, fulfills the guideline requirements, and can be classified as Core. Velvetleaf plants were significantly damaged at 28 days after application at the 1.0 lb ai/A rate of sulfentrazone.

8. **ADEQUACY OF THE STUDY**

- A. **Classification:** Core for velvetleaf only.
 B. **Rationale:** N/A.
 C. **Repairability:** N/A.

9. **GUIDELINE DEVIATIONS:** N/A.
10. **SUBMISSION PURPOSE:** This study repeats the Tier I testing conducted for Abutilon in the main Tier I test (MRID No. 436781-56) in which germination of this species was considered inadequate by the testing laboratory.
11. **MATERIALS AND METHODS:**

A. Test Organisms

| Guideline Criteria | Reported Information |
|---|--|
| Species 6 dicots in 4 families, including soybean and a rootcrop; 4 monocots in 2 families, including corn. | <u>Dicots</u> : velvetleaf <u>Monocots</u> : none |
| Number of seeds per rep 10 | 10 |
| Source of Seed | Herbiseed, Berkshire, UK. |
| Historical % Germination of Seed | 74% |

B. Test System

| Guideline Criteria | Reported Information |
|--|--|
| Solvent | None |
| Site of test | Greenhouse |
| Planting method / type of pot | Planted at 1-cm depth in trays (7 cm in depth) |
| Method of application | Track sprayer |
| Method of watering | Subirrigation with occasional top misting |
| Growth stage at application Seed or plant. | Seed |

C. Test Design

| Guideline Criteria | Reported Information |
|---|---|
| Dose range 2x or 3x | Tier I study conducted at two rates: 0.15 and 1.0 lb ai/A |
| Doses At least 5 | 2 |
| Controls Negative and solvent | Negative control |
| Replicates per dose At least 3 | 3 |
| Duration of test 14 days | 29 days |
| Were observations made at least weekly? | Yes |
| Maximum labeled rate | 1.0 lb ai/A |

12. REPORTED RESULTS

| Guideline Criteria | Reported Information |
|--|----------------------|
| Quality assurance and GLP compliance statements were included in the report? | Yes |
| Was an NOEL observed for each species? | Yes |
| Phytotoxic observations | Yes |
| Were initial chemical concentrations measured? (Optional) | No |
| Were adequate raw data included? | Yes |

Results for the most sensitive endpoint

| Species | Endpoint affected | Percent effect |
|------------|-------------------|----------------|
| Velvetleaf | visual damage* | 7 |

*based on decreased stem size

13. **REVIEWER'S COMMENTS:** The plants were treated with 5 biological control agents to control thrips, aphids, whiteflies, and red spider mites. These treatments probably did not affect the study. However, plants should be cultivated in areas which are free of insects.

This study is scientifically sound but is not a guideline requirement. The study is classified as **Supplemental**. Velvetleaf plants suffered 7% damage as a result of application of 1.0 lb ai/A azoxystrobin.