

US EPA ARCHIVE DOCUMENT

UNDATED

420953-01  
MRID No.

041402  
Shaughnessy No.

Data Evaluation Record

**MOLINATE, TG**

Addendum to MRID 408357-01  
Warmwater (Bluegill sunfish)  
Fish Acute Toxicity Test  
Guideline Reg. No. 72-3(c).

1. TEST MATERIAL- Molinate TG.

2. STUDY MATERIAL- S-Ethyl hexahydro-1H-azepine-1-carbothioate 97.6% ai W/W.

3. STUDY TYPE- Fish toxicity, warmwater species (e.g., Bluegill sunfish)

4. STUDY IDENTIFICATION:

Hammer, M. 1991. Addendum to MRID No. 408357-01. D171855. S407738. Case no. 818845.

Miller, J.L. 1982. 96-hour aquatic toxicity study of Ordram<sup>©</sup> technical in Bluegill sunfish (*Lepomis macrochirus*). ICI Americas, Aquatic Toxicology Laboratory, Richmond, CA 94804. Final Report No. T-13384, RR90-279B. MRID 408357-01. Submitted by ICI Americas, Inc., Agricultural Products, Wilmington, Delaware 19897.

5. REVIEWED BY:

James J. Goodyear

Signature:

Biologist, Section 1

Ecological Effects Branch

Date:

Environmental Fate and Effects Division (H7507C)

6. APPROVED BY:

Leslie W. Touart

Signature:

Head, Section 1

Ecological Effects Branch

Date:

Environmental Fate and Effects Division (H7507C)

7. CONCLUSIONS- Invalid.

8. RECOMMENDATIONS- N/A.

9. BACKGROUND:

EEB classified the original study "Invalid." ICI is requesting an upgrading of the classification.

10. DISCUSSION OF INDIVIDUAL TEST- N/A.

11. MATERIALS AND METHODS- As before.

12. REPORTED RESULTS:

ICI discusses the minor points of vessel size and statistical method. They also contend that the level of acetone used to dissolve the Molinate was too small to have affected the survival of the fish.

13. STUDY AUTHORS' CONCLUSIONS/QA MEASURES:

The study should be upgraded to "Core."

14. REVIEWER'S DISCUSSION AND INTERPRETATION OF THE STUDY:

A. TEST PROCEDURES:

ICI discusses the minor points of vessel size and statistical method without refuting either, but these points are not why EEB classified the study "Invalid."

The study failed because ICI did not conduct a solvent control. Anytime acetone is used a solvent control must be run because of the effects of the acetone *and of the possible contaminants in the acetone*, which may enhance or mask true toxicity.

B. ADEQUACY OF THE STUDY:

*Classification* - Invalid.

*Rationale* - The study had no solvent control.

*Repair* - None.

15. COMPLETION OF ONE-LINER FOR STUDY- No.

16. CBI APPENDIX- N/A.