

US EPA ARCHIVE DOCUMENT

420953-0
MRID No.

041402
Shaughnessy No.

UNDATED

Data Evaluation Record

MOLINATE, TG

Addendum to MRID 408357-02
Coldwater Acute Fish Toxicity Test

Guideline Reg. No. 72-1(c).

1. TEST MATERIAL- Molinate TG.

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

3. STUDY TYPE- Fish toxicity, coldwater species (e.g., Rainbow trout)

4. STUDY IDENTIFICATION:

Hammer, M. 1991. Addendum to MRID No. 408357-02. D171855. S407738. Case no. 818845.

Miller, J.L. 1988. 96-hour aquatic toxicity study of Ordram[®] technical in Rainbow trout (*Salmo gairdneri*). ICI Americas, Richmond Aquatic Toxicology Laboratory, Richmond, CA 94804. Report No. T-13383, RR90-270B. MRID 408357-02. 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 point of vessel size. 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 without refuting them, but this was 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.