

11-11-75

EEE BRANCH REVIEW

DATE: IN _____ OUT _____ IN 10/28/75 OUT 11/11/75 IN _____ OUT _____
FISH & WILDLIFE ENVIRONMENTAL CHEMISTRY EFFICACY

FILE OR REG. NO. 201-274

PETITION OR EXP. PERMIT NO. _____

DATE DIV. RECEIVED 10-14-75

DATE OF SUBMISSION 10-10-75 3C1D (No.) _____

DATE SUBMISSION ACCEPTED _____

TYPE PRODUCT(S): (I) D, H, F, N, R, S _____

PRODUCT MGR. NO. 15 T. A. Gardner

PRODUCT NAME(S) "BIDRIN 8 Water Miscible Insecticide"

COMPANY NAME Shell Chemical Company

SUBMISSION PURPOSE Environmental Effects on soil organisms

CHEMICAL & FORMULATION Dimethyl phosphate of 3-hydroxy N,N-dimethyl-cis-crotonamide

1.0 Introduction

Bidrin 70-15 data was first reviewed May, 1975. In reply to our letter (5/15/75) Shell has submitted "documents that should have been inserted in the original Bidrin---statement---to answer questions #5-A, B, C, D & E of the May 15 letter." This question relates to the effect of Bidrin on soil microbial functions.

2.0 Directions for Use - N.A.

3.0 Discussion of Data

3.3.7 Effects on Microbes

The submitted "documents" consists of 7 pages of a "Glossary-Microbiology" which details coding procedures for Shell's microbial studies. The 8th page presents the results of some microbial screening tests.

Experimental procedure - none given.

Summary and conclusion

1. Tests indicate 10 of 11 common microbes, three yeast and 15 molds survived a Bidrin exposure. Details of the exposure are not given. Streptococcus fecalis was the one organism tested which did not survive the testing.

4.0 Summary

The reported tests concern only question 5-c, of our May 15 letter, relating to the effect of Bidrin on common pesticide degraders. The protocol for the tests should be submitted; more extensive studies will be needed to answer points A, B, D and E.

5.0 Recommendations

Additional data are needed which specifically address each of the items listed in comment 5 of our letter of May 15, 1975 including a description of the experimental procedure used to generate data submitted. These data are needed to assess the hazards associated with the environmental fate of Bidrin. We note that answers to comments 1 through 4 of our above-mentioned letter are forthcoming.

REPLY 11/13/75
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11/11/75

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11/4/75

Arthur O. Schlosser

10/10/75