Shaugh. No. 058001

EAB Log Out Date APR 8 1985

Init. [signature]

To: Jay Ellenberger
Product Manager (12)
Registration Division (TS-767)

From: Carolyn K. Offutt, Chief [signature]
Environmental Processes and Guidelines Section
Exposure Assessment Branch, HED (TS-769)

Attached please find the environmental fate review of:

Reg./File No.: 3125 - 123 and 3125 - 102

Chemical: Azinphos-methyl

Type Product: Insecticide

Product name: GUTHION

Company name: Mobay

Submission Purposes: Submission of Fieldworker (Reentry) Data

Data In: 12/6/84

Date Completed: APR 08 1985

Action Code 400

EAB #: 5179, 5180

TAIS (Level II) Days 0.5

Deferrals To:

___ Ecological Effects Branch

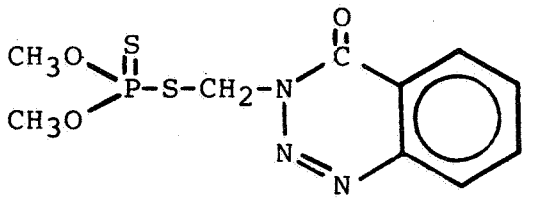
___ Residue Chemistry Branch

___ Toxicology Branch

REVIEW OF REENTRY DATA

1. CHEMICAL:

Azinphos-methyl: O,O-dimethyl S-[(4-oxo-1,2,3-benzotriazin--3[4H]-yl)methyl] phosphorodithioate



Also known as; GUTHION™; GUSATHION, and AZATHION.

2. TEST MATERIAL:

Data on several pesticides, but especially azinphos-methyl, are included in these reports along with cholinesterase enzyme assays urine analyses, and residue levels.

3. STUDY/ACTION TYPE:

This submission appears to be an action to inform the Agency of existing data and discussions on the effects of azinphos-methyl residues on fieldworkers. No specific request for action accompanies the submission package.

4. STUDY IDENTIFICATION:

Reg. File Nos. 3125-123 and 3125-102
Accession No. 255244
Record Nos. 133771-102 and 133770-123

5. REVIEWED BY:

James D. Adams, PhD
Chemist
Environmental Processes and Guidelines Section 4/8/1985

6. APPROVED BY:

Carolyn K. Offutt, Chief
Environmental Processes and Guidelines Section
Exposure Assessment Branch, HED (TS-769) 4/8/1985

7. CONCLUSIONS:

Fieldworkers working in citrus, apple, or peach trees can be exposed to residues of azinphos-methyl [guthion] at intervals after its application. Those residues are absorbed into the workers since metabolites of the residues can be detected in the urine. However, the submitted data do not show large reductions of cholinesterase enzymes after the exposures. This information

will be useful for examination of the existing reentry interval for azinphos-methyl, but it appears to be premature to attempt a review of this submitted data before the Registration Standard action is initiated.

8. RECOMMENDATIONS:

This submitted data must be recognized and reviewed in the coming Registration Standard for Azinphos-methyl.

9. BACKGROUND:

This submission is divided into three "reports". The first two "reports" [Mobay nos. 65371 and 65372] are fieldworker cholinesterase monitoring studies conducted by the University of California at Davis. The remaining "report" [Mobay no. 66770] is a collection of: 1) published papers; 2) research reports from CDFA, UCD, Washington State Univ., etc.; 3) testimony from hearings; and 4) letters/memos to, from, and within the California Department of Food and Agriculture (CDFA). Some of the information in this submission is already in Agency files.

10. DISCUSSION OF INDIVIDUAL TESTS OR STUDIES:

This section is not pertinent at this time. The data should be reviewed later at initiation of the Registration Standard and simultaneously with all available data that pertain to reentry hazards from the use of azinphos-methyl.

11. COMPLETION OF ONE-LINER:

Not applicable.

12. CBI APPENDIX:

Not applicable.