

US EPA ARCHIVE DOCUMENT

Shaughnessy No.: 102001

Date Out of EAB: SEP 22 1986

To: H. Jacoby  
Product Manager 21  
Registration Division (TS-767)

From: Samuel Creeger, Chief   
Review Section #1  
Exposure Assessment Branch  
Hazard Evaluation Division (TS-769)

Attached, please find the EAB review of...

Reg./File # : 4581-322  
Chemical Name: Thiophanate - methyl  
Type Product : Fungicide  
Product Name : TOPSIN M  
Company Name : Pennwalt  
Purpose : New uses on grapes and rice

Action Code(s): 330 EAB #(s) : 6356  
Date Received: 2/11/86 TAIS Code: \_\_\_\_\_  
Date Completed: SEP 22 1986 Total Reviewing Time: 0.5 days

Deferrals to: \_\_\_\_\_ Ecological Effects Branch  
\_\_\_\_\_ Residue Chemistry Branch  
\_\_\_\_\_ Toxicology Branch

Monitoring study requested by EAB: \_\_\_\_\_

Monitoring study voluntarily conducted by registrant: \_\_\_\_\_

1. CHEMICAL: Common name: Thiophanate-methyl  
Chemical name: Dimethyl [(1,2-phenylene)bis-(iminocarbonothioyl)]bis[carbamate]  
Trade name(s): TOPSIN M

2. TEST MATERIAL: N/A

3. STUDY/ACTION TYPE: New uses on grapes and rice, no new data submitted.

4. STUDY IDENTIFICATION: N/A

5. REVIEWED BY:  
Stephen J. Simko  
Chemist  
EAB/HED/OPP

Signature: *S. Simko*  
9/22/86

6. APPROVED BY:  
Samuel M. Creeger  
Chief, Section 1  
EAB/HED/OPP

Signature: *Sam M Creeger*  
SEP 22 1986

7. CONCLUSIONS:

The data gaps identified by EAB in December 1984 (for the Registration Standard) for thiophanate methyl were as follows:

- Hydrolysis
- Photodegradation in water
- Photodegradaton on soil
- Anaerobic soil metabolism
- Leaching and adsorption/desorption
- Laboratory volatility
- Field volatility
- Terrestrial field dissipation
- Confined accumulation on rotational crops

Field accumulation on rotational crops (Data submitted and  
and found acceptable by EAB in reviews dated 2/27/85 and  
3/28/84)

Laboratory accumulation in fish (Data submitted and found  
acceptable by EAB in review dated 3/28/84)

8. RECOMMENDATIONS:

EAB cannot recommend the registration of new uses for thiophanate methyl until data gaps cited in the Registration Standard are addressed.

9. BACKGROUND:

The requested use of TOPSIN on grapes specifies 1 - 1.5 lb/A to be applied at first bloom and repeat 14 days later if needed. Make additional application 3 to 4 weeks before harvest and repeat 14 days later if needed. Do not apply within 7 days of harvest.

Application east of the Rocky Mountains specifies 0.75 - 1.5 lb/A to be applied when foliage first develops and repeat at 14- to 21-day intervals, or as needed until berries are full size. Do not apply within 7 days of harvest.

Directions for rice use were not included.

10. DISCUSSION OF INDIVIDUAL TESTS OR STUDIES: N/A

11. COMPLETION OF ONE-LINER: N/A

12. CBI APPENDIX:

No CBI is included.