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: S. 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
   
   Photodegradation 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 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 TGPSIN 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.