

US EPA ARCHIVE DOCUMENT



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

DEC 5 1985

OFFICE OF  
PESTICIDES AND TOXIC SUBSTANCES

MEMORANDUM

SUBJECT: Partial Response (10/11/85) by UCB Chemical Corporation to Data Gap §63-10, Dissociation Constant, to Support Re-registration of Thiram as Identified in the Product Chemistry Chapter of the 3/2/84 Thiram Registration Standard (RCB #195; Acc. #259809).

FROM: Wei T. Chin, Ph. D., Chemist *W. T. Chin*  
Tolerance Petition Section II  
Residue Chemistry Branch  
Hazard Evaluation Division (TS-769)

THRU: Charles L. Trichilo, Ph. D., Chief  
Residue Chemistry Branch  
Hazard Evaluation Division (TS-769)

TO: Amy Rispin, Chief  
Science Integration Staff  
Hazard Evaluation Division (TS-769)

and

Henry M. Jacoby  
Product Manager, Team #21  
Registration Division (TS-767)

In response to the data call-in for the Product Chemistry Chapter of Thiram Registration Standard, the UCB Chemical Corporation submits additional data for their MJP (EPA Registration No. 45728-1) to fill the data gap §63-10. Dissociation Constant.

Data Gap §63-10:

Dissociation Constant.

The petitioner's response to Data Gap §63-10:

By determination of conductance of tetramethylthiuram disulfide in a mixture of 1,4-dioxane and water (89:11, v/v) under N<sub>2</sub> atmosphere, the dissociation constant of this compound was evaluated as less than 10<sup>-6</sup> mole/liter, or k < 10<sup>-6</sup> mole/l.

RCB's comments/conclusions on the petitioner's response to Data Gap §63-10:

RCB concludes that this data gap is filled.

Other Outstanding Data Gaps with Regard to Product Chemistry:

The petitioner is advised to submit additional information in order to fill the following data gaps identified in the Product Chemistry Chapter of the 3/2/84 Thiram Registration Standard:

- §62-3. Analytical methods to verify certified limits
- §63-14. Oxidizing or reducing action
- §63-17. Storage stability
- §63-20. Corrosion characteristics
- §64-1. Submittal of samples

Attachment: Table B (updated, 3 pages)

cc: Circ., Thiram Reg. Standard S.F., R.F., W.T.Chin, R.Perfetti, PMSD/ISB

TABLE B Summary of Product Chemistry Data Submitted for Thiram: Registration No. 8326-2 (Prochimie), 45728-1 (UCB) and 1187-131 (Virginia Chemical).1/

§158.120 - PRODUCT CHEMISTRY

Guideline Citation and Name of Test	Test Substance	Guidelines Status	Are Additional Data Required?		References
			Yes	No	
<u>PRODUCT IDENTITY:</u>					
61-1 - Product Identity and Disclosure of Ingredients (§163.61-4)	MP	R		X	See Registration Standard
61-2 - Description of Beginning Materials & Manufacturing Process (§163.61-4)	MP	R		X	Acc. 257236, 257217
61-3 - Discussion of Formation of Ingredients (§163.61-5)	MP	R		X	Acc. 257236
<u>ANALYSIS AND CERTIFICATION OF PRODUCT INGREDIENTS:</u>					
62-1 - Preliminary Analysis of Product Samples (§163.61-7)	MP	R		X	Acc. 257236, 257218
62-2 - Certification of Ingredient Limits (§163.61-6)	MP	R		X	Acc. 257236, 257218
62-3 - Analytical Methods to Verify Certified Limits (§163.61-7)	MP	R	X		Acc. 257236, 257218 2/
<u>PHYSICAL AND CHEMICAL CHARACTERISTICS:</u>					
63-2 - Color (§163.61-8(c)(1))	MP	R		X	Acc. 257219
63-3 - Physical State (§163.61-8(c)(7))	MP	R		X	Acc. 257219



TABLE B (Continued)

Guideline Citation and Name of Test	Test Substance	Guidelines Status	Are Additional Data Required?		References
			Yes	No	
<b>PHYSICAL AND CHEMICAL CHARACTERISTICS:</b>					
63-4 - Odor [§163.61-8(c)(2)]	MP	R	X		Acc. 257236, 257219
63-5 - Melting Point [§163.61-8(c)(3)]	MP	R	X		Acc. 257236, 257219
63-6 - Boiling Point [§163.61-8(c)(9)]	MP	N/A	X		---
63-7 - Density, or Bulk Density [§163.61-8(c)(8)]	MP	R	X		Acc. 257219
63-8 - Solubility [§163.61-8(c)(4)]	MP OR PAI	R	X		Acc. 257236, 257219
63-9 - Vapor Pressure [§163.61-8(c)(10)]	PAI	R	X		Acc. 259248
63-10 - Dissociation Constant	PAI	R	X		Acc. 259809
63-11 - Octanol/Water Partition Coefficient [§163.61-8(c)(6)]	PAI	R	X		Acc. 257236, 257219
63-12 - PH [§163.61-8(c)(11)]	MP	R	X		Acc. 257219
63-13 - Stability [§163.61-8(c)(5)]	MP	R	X		Acc. 257236, 257219
63-14 - Oxidizing or Reducing Action [§163.61-8(c)(14)]	MP	R		X	

TABLE B (Continued)

Guideline Citation and Name of Test	Test Substance	Guidelines Status	Are Additional Data Required?		References
			Yes	No	
<b>PHYSICAL AND CHEMICAL CHARACTERISTICS:</b>					
63-15 - Flammability [§163.61-8(c)(15)]	MP	NA			
63-16 - Explodability [§163.61-8(c)(15)]	MP	NA			
63-17 - Storage Stability [§163.61-8(c)(12)]	MP	R	X		No data
63-18 - Viscosity [§163.61-8(c)(17)]	MP	NA			
63-19 - Miscibility [§163.61-8(c)(16)]	MP	NA			
63-20 - Corrosion Characteristics	MP	R	X		No data
63-21 - Dielectric Breakdown Voltage [§163.61-8(c)(19)]	MP	NA			
<b>Other Requirements:</b>					
64-1 - Submittal of Samples [§163.61-9]	TGAI/MP	R	X		3/

Notes: 1/ Since the registered product contains wetting and dispersing agents, it is considered an MUP.  
 2/ Validation data are required.  
 3/ The registrants should send samples to Chief, Chemical and Biological Investigation Branch, BUD, OPP/OPTS, USEPA, Building 402 ARC, East Beltsville, MD 20705.

11/15/85 mlh

### REGISTRATION DIVISION DATA REVIEW RECORD

Confidential Business Information - Does Not Contain National Security Information (E.O. 12065)

12481

1. CHEMICAL NAME

Thiram 079801-7

11/15/85

2. IDENTIFYING NUMBER 45728-1	3. ACTION CODE 616	4. ACCESSION NUMBER 259809 <del>259810</del> <del>259811</del>	TO BE COMPLETED BY PM
			5. RECORD NUMBER 162357
			6. REFERENCE NUMBER 27
			7. DATE RECEIVED (EPA) 10/15/85
	RCB # 195		8. STATUTORY DUE DATE NA (Y24186)
		DEC 5 1985	9. PRODUCT MANAGER (PM) JACOBY
			10. PM TEAM NUMBER 21

14. CHECK IF APPLICABLE

- Public Health/Quarantine
- Minor Use
- Substitute Chemical
- Part of IPM
- Seasonal Concern
- Review Requires Less Than 4 Hours

AH

TO BE COMPLETED BY PCB

- 11. DATE SENT TO HED/TSS  
11-15-85
- 12. PRIORITY NUMBER  
50
- 13. PROJECTED RETURN DATE  
01-14-86

15. INSTRUCTIONS TO REVIEWER

- A. HED  Total Assessment - 3(c)(5)
- Incremental Risk Assessment - 3(c)(7) and/or E.L. Johnson memo of May 12, 1977.
- B. SPRD (Send Copy of Form to SPRD PM)
  - Chemical Undergoing Active RPAR Review
  - Chemical Undergoing Active Registration Standards Review
- C.  BFSD
- D.  TSS/RD
- E.  Other

F. INSTRUCTIONS

Rev. data to support  
Reregistration of Thiram  
Standard.

16. RELATED ACTIONS

17. (HED)

- See and/or All Available Information
- See Only the Attached Information
- Available Information

18. REVIEWER COMMENTS

TO/TO	TYPE OF REVIEW	NUMBER OF ACTIONS							
		Registration	Extension	NEUP	RLN	Sec. 18	Short	MNR/USE	Other
HED	TOXICOLOGY								
	ECOLOGICAL EFFECTS								
	RESIDUE CHEMISTRY								
	ENVIRONMENTAL DATA								
RD/TSS	CHEMISTRY								
	EFFICACY								
	PRECAUTIONARY LABELING								
BFSD	ECONOMIC ANALYSIS								(6)

20.  Label Submitted with Application Attached

21.  Confidential Statement of Formula

22.  Representative Labels Showing Accepted Uses Attached

23. Date Returned to RD (to be completed by HED) 12-5-85

24. Include an Original and 4 (four) Copies of This Completed Form for Each Branch Checked for Review.