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	TO:	Hank Jacoby Product Manager 21 Registration Division TS-767	<i>4.1</i>				
	FROM:	Samuel Creeger, Chief Review Section No. 1 Exposure Assessment Branch Hazard Evaluation Division					
	Attached p	lease find the environmental	fate rev	iew	of:		
	Reg./File	No.: 400-112	د از	, , , , , , , , , , , , , , , , , , , ,			
,	Chemical:	Carboxin and Thiram	د د د د د د د د د د د د د د د د د د د	11) - 1 - j - j 	- 1 1	
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]	Product Na	me: Vitavax 200			/ 		
(Company Na	me: Uniroyal					
Š	Submission	Purpose: Review new use as	s safflow	er s	eed t	reatment	
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	Eco	ological Effects Branch					
	Res	sidue Chemistry Branch					

Toxicology Branch

1.0 INTRODUCTION

Uniroyal Chemical Co. has submitted an application for registration of Vitavax-200 Flowable Fungicide, Reg. No. 400-112 (Carboxin and Thiram as active ingredients) for use as a safflower seed treatment.

1.1 Chemicals

Carboxin

Thiram

5,6-dihydro-2-methyl-1,4-oxathiin-3-carbonanilide

Tetramethylthiuram disulfide

2.0 DIRECTIONS FOR USE

The complete label is appended to this review. Briefly, 4 fluid ounces of Vitavax-200 Flowable Fungicide is used per 100 pounds of seed. Apply as a slurry treatment by machine.

[Note: This application rate calculates to about 0.0125 lb. each a. i. per acre. Density Vitavax 200 = 9.6 lb/gal; 17% each a. i.; 25 lb. seed/acre (telecom. IR-4, 5/18/84)]

3.0 DISCUSSION OF DATA

3.1 No additional data were included with submission.

3.2 Carboxin

Previous EAB reviews, including a review of data in response to the registration standard, indicate that

the following are data deficiencies for carboxin:

- Photodegradation studies
- Aerobic soil metabolism study
- Anaerobic soil metabolism
- Terrestrial field dissipation study
- Rotational crop study

EAB review dated 6/21/83 noted these deficiencies still exist and requested that the registrant should address them directly and expeditiously. Also, data presented in the photodegradation study bring the results of the hydrolyis study into question. It appears that the dark photolysis control sample showed degradation suggesting carboxin hydrolyzes. However, the hydrolysis study indicated that carboxin was stable to hydrolysis. EAB noted that the registrant stated that an additional photolysis study was (then) currently underway.

EAB review of the bean seed use dated 12/18/80 concluded that the increased environmental burden resulting from the use as a seed treatment on beans would be minimal.

Conclusion

Because of the low application rate per acre and unlikelihood of residues getting to aquatic areas from the use, data on field dissipation, rotational crop and fish accumulation will not be necessary for this use.

Also, since the treated seed is to be planted, photolysis will not be a route of degradation. However, other deficiencies must be resolved.

3.3 Thiram

The registrant states that thiram is currently registered in several products as a seed treatment on safflower; i.e. (EPA Reg. No.) 352-277.

The EAB file for thiram shows no data have ever been submitted to support any use of thiram, including the use on safflower.

Conclusion

Data deficiencies exist for this chemical which must be resolved.

4.0 RECOMMENDATION

- 4.1 Data deficiencies exist for carboxin and thiram such that the environmental fate of these chemicals is not adequately defined.
- 4.2 For this limited use, EAB can concur with conditional registration of Vitavax 200 (carboxin and thiram, as a. i) provided the registrant submits additional information. At a minimum, an acceptable aerobic soil metabolism study for each active ingredient, a hydrolysis study for thiram, and clarification of the carboxin hydrolysis question are needed to support registration of Vitavax 200 for this limited use.
- 4.3 Other uses of Vitavax 200 may need the support of additional data.

Clinton Fletcher

Review Section No. 1

Exposure Assessment Branch

Hazard Evaluation Division

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	Description of product quality control procedures
	Identity of the source of product ingredients
·	Sales or other commercial/financial information
X	A draft product label
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	Information about a pending registration action
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