

US EPA ARCHIVE DOCUMENT

Shaughnessy No.: 079801

Date Out of EAB: AUG 31 1987

Signature: _____

To:

S. Austin
Product Manager # 41
Registration Division (TS-767)

From:

Emil Regelman, Supervisory Chemist
Environmental Fate Review Section #3
Exposure Assessment Branch
Hazard Evaluation Division (TS-769c)



Attached, please find the EAB review of...

Reg./File # : 87-MI-07

Chemical Names: thiram/carboxin

Type Product : Fungicide

Product Name : PRO-GRO

Company Name : Uniroyal Chemical Co.

Purpose : Request for Section 18 use on onions in Michigan

Date Received : 3/27/87

Action Code: 510

Date Completed: 8/26/87

EAB # (s): 70456

Monitoring study requested: _____

Total Reviewing Time: 2 days

Monitoring study voluntarily: _____

Deferrals to: _____ Ecological Effects Branch
_____ Residue Chemistry Branch
_____ Toxicology Branch

1. CHEMICAL: Thiram (tetramethylthiuram disulfide)-- 50%

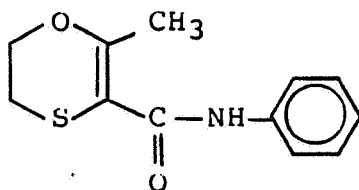
Carboxin (5,6-Dihydro-2-methyl-N-phenyl-1,4 oxathin-3-caroxamide)-- 30%

Trade Name: PRO-GRO

1.1 Chemicals

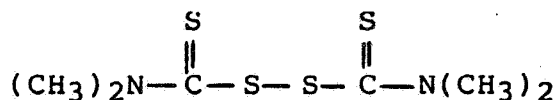
Carboxin

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



Thiram

Tetramethylthiuram disulfide



2. TEST MATERIAL: PRO-GRO

3. STUDY/ACTION TYPE: Section 18 for use of PRO-GRO on onion seed to control onion smut (fungus)

4. STUDY IDENTIFICATION: No studies submitted - information from preliminary trials were included in the request for the Section 18.

5. REVIEWED BY:

John H. Jordan, Ph.D.
Microbiologist
OPP/HED/EAB

John H. Jordan 8/26/87

6. APPROVED BY:

Emil Regelman
Supervisory Chemist
OPP/HED/EAB

Emil Regelman
AUG 31 1987

7. CONCLUSIONS: There is an established tolerance of 0.5 ppm thiram on/in onions. The Thiram Registration Standard indicated that no thiram residues >0.2 ppm were found in onions from seed treatments at rates of 1 to 4 lbs. ai/A. These data indicated to RCB that thiram residues in/on onions (dry bulb) will not exceed the established tolerance of 0.5ppm. The Section 18 requests an application rate of 1 ounce thiram per acre.

There is no established tolerance for carboxin in/on onions. Very limited data were provided to RCB on carboxin residues in onions. Onions treated with 0.6 oz/A ai showed no (reported) residues above 0.1 ppm. RCB accepted these data for purposes of the Section 18 request, only.

Although there are data gaps in their information, the TOX branch approved the Section 18 request. The Toxicology Branch indicated that their approval was based on no carboxin/thiram residues in/on onions above the established tolerance of 0.5 ppm thiram and 0.1 ppm carboxin.

Because the Section 18 request is a low application seed treatment, no reentry, spray drift, or groundwater statements are necessary. There were no GW DCI flags for thiram and no report of thiram found in groundwater. However, carboxin data triggered GW DCI, but there are no reports of the pesticide in groundwater. GW contamination should not result from the 0.6 ounces/A ai application of carboxin applied for in the Section 18.

8. RECOMMENDATIONS: EAB recommends that the Section 18 be granted for one year, only. Data for registration of PRO-GRO must be submitted and approved for use on onions before additional applications may be applied.
9. BACKGROUND: The State of Michigan applied for a Section 18 exemption to apply PRO-GRO (50% thiram/30% carboxin) for onion smut control. Seed treatment at the recommended rate will result in the application of 1.0 ounce of thiram and 0.6 ounces of carboxin/A. Canada has been using PRO-GRO for about 10 years for onion smut control under almost identical conditions that exist in Michigan.
10. DISCUSSION OF INDIVIDUAL TESTS OR STUDIES: There were no formal studies submitted. Information from preliminary trials was presented in the request.
11. COMPLETION OF ONE-LINER: One-liner not completed to date.
12. CBI APPENDIX: The preliminary information on residues in/on onions is considered to be confidential by the registrant.