

AUG 25 1983

RESIDUE CHEMISTRY BRANCH, HED
PETITION REVIEW QUICK FORM

FROM:

Jesse E. Mayes, Chemist
Residue Chemistry Branch
Hazard Evaluation Division (TS-769)

THRU:

Charles Trichilo, Chief
Residue Chemistry Branch
Hazard Evaluation Division (TS-769)

TO:

Hoyt Jamerson, PM 43
Registration Division (TS-767)
and
Toxicology Branch
Hazard Evaluation Division (TS-769)

1. Petitioner: IR-4 and Ag Exp Sta of Idaho
2. Petition No(s): 3E2890
3. Chemical(s): dimethoate
4. Tolerance Proposal (RAC's & Levels): 2 ppm in or on
lentils.
5. Tolerance Expression: dimethoate (O,O-dimethyl S-(N-methylcarbamoylmethyl) phosphorodithioate) incl. its oxygen analog (O,O-dimethyl S-(N-methylcarbamoylmethyl) phosphorothioate)
6. Established Tolerances: 40 CFR 180.204 various RAC's
incl. fruits, meat milk and vegetables ranging from 0.002 ppm - 2 ppm.
7. Letter(s) of Authorization (if applicable): Letter dated
5/3/83 from W. L. Stollman of American Cyanamid Co.
8. Formulation(s): Cygon 400 Systematic Insecticide
contg 43.5% active ingredient EPA Reg # 241-233
9. Inerts Status: All cleared in 40 CFR 180.1001

18. Animal Metabolism Data Applicable Here: #16
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19. Nature of Animal Metabolism Data is/is not adequately defined.
The Residue of Concern is: #16
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20. Analytical Methods (reference or brief description):
Several methods are available for determining dimethoate and its oxygen analog and are listed in PAM Vol II. The determination steps are by GLC and colorimetric. The method of Stolte W A and Carey A H. JPOCC 47 (1945) (1944) was used for plant uptake and green beans in connection with PP# 585.
21. Method Validation (crop recoveries): 90% for dimethoate on green beans and 92% for the oxygen analog on green beans as recorded in PAM Vol II.
22. Method Validation (control values): < 0.1 ppm present in oxygen analog
23. Residues Determined by Method: dimethoate and oxygen analog
24. Enforcement Methodology is is not available.

25. Residue Data (crop and maximum residue from Proposed Use):

Crop (ppm range): No data submitted

Crop (ppm range): _____

Crop (ppm range): _____

Other Comments: Data have been reviewed with
earlier petitions 3E0385 and 5E1642, for residues of
dimethoate on green, snap and lima beans and soybeans.
These data support the 2 ppm tolerance established for dry beans.

26. Residues will not exceed proposed tolerance on (commodities)

lentils as translated from above data.

and will exceed proposed tolerance on (commodities) _____

27. Livestock Feeding Studies on (species): N/A

28. Animal Feeding Levels: _____

29. Animal Residue Ingestion Levels from Proposed Crop Tolerance Levels (proposed tol. level x % in diet): _____ ppm in beef cattle; _____ ppm in dairy cattle/goats; _____ ppm in hogs; _____ ppm in horses; _____ ppm in sheep; _____ ppm in poultry.

30. Livestock Tolerances are Adequate in (species) _____, _____, but not adequate in _____, _____, _____.

31. Livestock Tolerances Need to be Established: yes/no. If yes (species/levels): _____
32. Other Comments: Although forage and vines can be grazed after harvest of lentils the label restricts grazing of livestock. (This applies to the already est. tol on leaves, etc.) It has been determined that such a restriction is practical.
33. Other Considerations: _____

34. Additional Data Needed: None

35. Recommendations: Toxicology and EAB considerations permitting, we recommend for the proposed tolerance of 2 ppm for residues of dimethoate and its oxygen analog in or on lentils.
36. Other Comments under Recommendations: _____

37. Compatibility with Codex Tolerances: The 2 ppm level proposed for lentils is compatible with the Codex level of 2 ppm for "vegetables".

cc: RF, Circ, Reviewer, Thompson, Tox, EEB, EFB, FDA, PP#

Approved: Quick Ptd 8/9/83

Schmitt RPA 8/9/83

INTERNATIONAL RESIDUE LIMIT STATUS

CHEMICAL Dimethoate

PETITION NO 3E2890

CCPR NO. 27

Reviewer: Jane E. Mayer

J.L.
8/3/83

Codex Status

Proposed U. S. Tolerances



No Codex Proposal
Step 6 or above

Residue (if Step 9): Sum of dimethoate and omethoate resulting from the use of formethion, dimethoate and omethoate Residue: Dimethoate and its oxygen analog

Crop(s) Limit (mg/kg)

Crop(s)

Tol. (ppm)

Vegetables 2

lentils

2 ppm

CANADIAN LIMIT

Residue: parent + omethoate

MEXICAN TOLERANCIA

Residue: _____

Crop Limit (ppm)

none (on lentils)

Crop

Tolerancia (ppm)

none (on lentils)

Notes:

1 of 1

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