

US EPA ARCHIVE DOCUMENT

JUL 13 1987 1687

RESIDUE CHEMISTRY BRANCH, HED
PETITION REVIEW QUICK FORM

FROM: Maxie Jo Nelson, Chemist
Residue Chemistry Branch
Hazard Evaluation Division (TS-769)

mjn

THRU: Robert S. Quick, Section Head
Residue Chemistry Branch
Hazard Evaluation Division (TS-769)

RSQ

TO: Hoyt Jamerson PM 43
Registration Division (TS-767)

and

Toxicology Branch
Hazard Evaluation Division (TS-769)

1. Petition No(s): 7E3536 RCB# 2482, MRID# 402324-00 -01.
2. Chemical(s): Chlorpyrifos
3. Tolerance Proposal (RAC's & Levels): 0.1 ppm (of which no more than 0.05 ppm is chlorpyrifos) - cherimoya, sapote, quava (pineapple).
4. Petitioner: IR-4 and Ag. Exp. Str. of CA
5. Tolerance Expression: parent plus metabolite (3,5,6-trichloro-2-pyridinol)
6. Established Tolerances: 40 CFR 180.342
0.05-15 ppm, various RAC's (incl. several tree fruits)
7. Letter(s) of Authorization (if applicable):
Dow Chemical USA - 5/18/87
8. Formulation(s): Lorsban 4E Insecticide
EPA Reg. No. 464-448 4 lbs ai/gal. EC
9. Inerts Status: under RD purview

17. Animal Residues Comprised of: N/A. See #16.
18. Animal Metabolism Data Applicable Here: N/A. See #16.
19. Nature of Animal Metabolism Data is/is not adequately defined.
The Residue of Concern is: N/A. See #16.
20. Analytical Methods (reference or brief description):
Chlorpyrifos residues were determined by the PAM II, Method I procedure (FPD/GLC) and TCP residues by the Method VII procedure (EC/GLC).
Chlorpyrifos is also completely recovered by PAM I Multiresidue procedures.
Representative chromatograms were submitted.
21. Method Validation (crop recoveries): Cherimoya
Chlorpyrifos 0.05-0.25 ppm fortification 90-100% recovery
TCP " " " 95-96% "
22. Method Validation (control values): Cherimoya
<0.05 ppm of chlorpyrifos; <0.05 ppm of TCP
23. Residues Determined by Method: Chlorpyrifos and TCP are determined as separate entities per #20.
24. Enforcement Methodology (is) is not available. (In PAM I and II)

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

MRID
402324-01

Crop: Cherimoya <0.05 ppm chlorpyrifos; <0.05 ppm TCP
[Supplemental data on peaches and nectarines, 0.05 ppm
tolerances, in PP# 3F1306 support NDR findings.]

No data submitted for sapote or pineapple guava.
1985-86 crop year 7 mo PHI
one trial (CA) frozen storage 6 mos. before analysis
1X and 2X rate for chlorpyrifos, and 3 mos. for TCP.
(100 trees/A)

Other Comments: concurrent storage stability studies run with
chlorpyrifos and TCP, each fortified @ 0.05-0.25 ppm. Recoveries
were 80-104% chlorpyrifos (5 1/2 months) and 84-100% TCP (2+ months).

26. Residues will not exceed proposed tolerance on (commodities)
cherimoya and (by translation) sapote and pineapple guava
and will exceed proposed tolerance on (commodities) _____

27. Livestock Feeding Studies on (species): N/A. See # 16.

28. Animal Feeding Levels: N/A. See # 16.

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.

N/A

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

N/A

31. Livestock Tolerances Need to be Established: yes/no. If yes (species/levels): N/A. See # 16.
32. Other Comments: Pineapple quava is more appropriately called feijoa. (See memo of Carl Grable, 5/1/86.) A revised Section F needs to be submitted in which the tolerance is proposed in terms of: "feijoa (pineapple quava)". Section B should be revised to include the term, feijoa.
33. Other Considerations: Cherimoya, sapote, and feijoa are listed as minor crops, per FR, Vol. 51, p. 11344, 4/2/86.
- There is a Registration Standard (9/30/84) on chlorpyrifos.
34. Additional Data Needed: None.
35. Recommendations: Negative, at this time, for the reasons cited in #32. A revised Section F for "feijoa (pineapple quava)" is needed. A revised Section B to propose the use in terms of feijoa (pineapple quava) is needed.
36. Other Comments under Recommendations: If/when the proposed tolerances are established, they will need to be placed in a separate subsection of 40 CFR 180.342 and designated as tolerances with regional registration.
37. Compatibility with Codex Tolerances: N/A. See Attachment.

cc: RF, Circ, Reviewer, ISB/PMSD, TOX, EEB, EAB, PP#7E3536
 Approved: Quick RNL 6/13/87; Schmitt RD 6/13/87

INTERNATIONAL RESIDUE LIMIT STATUS

J. Wes
7/6/87

CHEMICAL Chlorpyrifos

CODEX NO. 017

CODEX STATUS:

No Codex Proposal
Step 6 or above (on commodities listed)

Residue (if Step 8): _____

chlorpyrifos only

<u>Crop(s)</u>	<u>Limit (mg/kg)</u>
----------------	----------------------

PROPOSED U.S. TOLERANCES:

Petition No. 7E3536

RCB Reviewer Nelson

Residue: parent + 3,5,6-

trichloro-2-pyridinol

<u>Crop(s)</u>	<u>Limit (mg/kg)</u>
----------------	----------------------

cherimoya	}	0.1
pineapple guava		
sapote		

CANADIAN LIMITS:

No Canadian limit (on commodities listed)

Residue: _____

<u>Crop(s)</u>	<u>Limit (mg/kg)</u>
----------------	----------------------

MEXICAN LIMITS:

No Mexican limit (on commodities listed)

Residue: _____

<u>Crop(s)</u>	<u>Limit (mg/kg)</u>
----------------	----------------------

NOTES:

6