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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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OFFICE OF
PESTICIDES AND TOXIC SUBSTANCES

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MEMORANDUM:

SUB. EPA Reg. #3125-301
RCB: #3080
[MRID: 4109011-10,
4568010-11]

Azinphos-methyl[GUTHION®]:
Registration for Almonds
in California only.

FROM: William L. Anthony
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Hazard Evaluation Division(TS-769)

William L. Anthony

THRU: Ed Zager, Section Head
Special Registration Section II
Residue Chemistry Branch
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E. Zager

TO: Dennis Edwards/Portia Jenkins, PM # 12
Insecticide-Rodenticide Branch
Registration Division (TS-767)

The Gowan Company at Yuma, Arizona has submitted an amendment for its registered formulation, GOWAN AZINPHOS-M50 WP, [EPA Reg. # 10163-78, 7/26/85] to reduce the PHI from 60 to 28 days.

Tolerances for the active ingredient azinphos-methyl [O,O-dimethyl S-[(4-oxo-1,2,3-benzotriazin-3(4H)-yl)methyl]phosphorodithioate] in/on almond meats and almond hulls exist at 0.3 and 10 ppm, respectively [40 CFR 180.154] and for residues of azinphos-methyl in/on its metabolite calculated as azinphos-methyl in milk [40 CFR 180.154a].

Registered Use for Almonds

The 50% WP and 2 lb/gal EC formulations are registered for foliar applications (using ground or aerial equipment) at 0.375 to 0.5 lb a.i./100 gal finished spray. Up to 500 gal may be applied/A, permitting up to 2.5 lb ai per acre per treatment. No more than two applications per year may be made. Applications must be made at least 30 days apart. Livestock may be grazed in treated areas for 21 days after treatment. A 60-day PHI is in effect.

Residue Data

Residue data studies submitted with this action, under MRID #4109-011-10, were completed in 1962 & 1966; and MRID #4568-010-11(Addtion #1) in 1976 & 1977. The former data was previously reviewed by RCB [Memo: D. Reed, PP#7F0582, 1/31/68]. The latter was not reviewed by RCB. Although, results from six samples which had been treated by aerial or foliar application with a total of 4 lbs ai/A showed azinphos-methyl residues in hulls ranging from 0.73 to 5.89 ppm, all were analyzed following a 52 and/or 59 day PHI instead of the 28 day proposed PHI.

Conclusion

Based on the submitted data in support of a 28 day PHI and the conclusions drawn from the memos of: D.Reed, PP#7F0582,1/31/68; J.Shaughnessy, 8/3/79; E.Zager, 23/12/82; W. Anthony, 7/9/86 and 8/19/87, we reiterate that residues of azinphos-methyl and its oxygen analog in/on almond hulls may exceed 10 ppm if the registered use is reduced to <60 day PHI.

Recommendation

For reasons given in the above conclusion, we recommend against this amended registration.

Note to PM: We are aware that a Section 24(c) registration has been issued in California. We recommend that the 24(c) use, CA-820045, be disapproved at this time, under the provisions of 40 CFR 162.154(1)(b)(ii).

CC:W.Anthony;SF[Azinphos-Methyl,GUTHION®];Amended reg.File;ISB/PMSD;RF;Circu.
RDI: Ed.Zager,Sec.Head,1/28/88;R.Schmitt,1/28/88.
TS-769:RCB/HED;W.Anthony;wa;CM-2; Rm.812;X557-4351;1/28/88.