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OFFICE OF
PESTICIDES AND TOXIC SUBSTANCES

MEMORANDUM

SUB: SLN #ID-870010 Thiophanate-Methyl [TOPSIN®-70% WP]:
 [RCB: #3253] 24(c) on beans in the State of Idaho.
 [Acc.: None]

FROM: William L. Anthony
 Residue Chemistry Branch
 Hazard Evaluation Division (TS-769C)

THRU: Ed Zager, Section Head
 Special Registration Section II
 Residue Chemistry Branch
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TO: L. Rossi, PM #21
 Fungicide-Herbicide Branch
 Registration Division (TS-767)

William L. Anthony
E. Zager

The State of Idaho has issued a Special Local Need (SLN) registration for the use of Thiophanate-Methyl [TOPSIN®- 70% WP Fungicide; EPA Reg. #4581-322] for in-furrow treatment on beans.

The formulation, which contains 70 % of the ai thiophanate-methyl, will be used to control Fusarium spp and Rhizoctonia spp in/on beans in the State of Idaho only.

Tolerances

Tolerances are established for residues of thiophanate-methyl (Dimethyl-[(1,2-phenylen)-bis(carbamate)], its oxygen analogue, [Dimethyl-4,4'-o-phenylene-bis(allophanate)] and its benzimidazole containing metabolites (calculated as thiophanate-methyl) in/on beans (snap & dry) pre-harvest at 2.0 ppm. Tolerances are also established for numerous other R.A.C.s' ranging from 0.05 ppm on wheat grain to 50 ppm on bean (forage & hay) pre-harvest. [40 CFR 180.371].

A Registration Standard for Thiophanate-Methyl was issued on 2/6/85/.

Registered Use

TOPSIN®-70%WP is registered as a foliar application on beans for the control of Botrytis and Sclerotinia spp. This registration permits one foliar application of the fungicide at 1.5 to 2.0 lbs(1.05 to 1.4 lb ai)/A at 50 to 70 % bloom or two foliar applications at 1.0 to 1.51 lb(0.7 to 1.05 lb ai)/A at 20 to 30 % bloom and again 4 to 7 days. There is a 14-day PHI for snap beans, and a 28-day PHI for lima beans. Aerial or ground equipment may be used, using sufficient volume of spray to provide thorough coverage.

Proposed Use

The proposed use would permit application of up to 2 lb (1.4 lb ai)/A of TOPSIN®-70% WP. Nozzle should be centered so that spray strikes the soil surrounding seed, the seed furrow edges, and the seeds. Apply at low pressure (40 psi) to avoid seed displacement with sufficient volume for adequate coverage.

Residue Data

No residue data reflecting in-furrow applications, followed by foliar applications, was included with this request. Therefore, we are unable to draw any conclusions for the requested new use in-furrow treatment of beans in Idaho.

Conclusion and Recommendation

In the absence of residue data reflecting in-furrow treatment followed by foliar applications, we are unable to conclude whether residues from the proposed treatment would exceed the established tolerance.

cc: Reviewer;S.F.[Thiophanate-Methyl];Sec.18 file;ISB/PMSD;RF,Circulation.
RDI:E.Zager,Sec.Head,2/18/88;R.Schmitt,2/18/88.
TS-769:RCB/HED;W.Anthony;wa;CM-2;Rm.812;X557-4351;2/18/88.