9-2-83

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

SEP 2 1983

OFFICE OF
PESTICIDES AND TOXIC SUBSTANCES

MEMORANDUM

SUBJECT: Reg. Nos. 464-448 and 464-523.
Chlorpyrifos on onions (dry bulb)

FROM: Linda S. Propst, Chemist
Residue Chemistry Branch
Hazard Evaluation Division (TS-769)

Linda S. Propst
7/25/83

THRU: Charles L. Trichilo, Chief
Residue Chemistry Branch
Hazard Evaluation Division (TS-769)

TO: Jay Ellenberger, P.M. No. 12
Insecticide-Rodenticide Branch
Registration Division (TS-767)

Dow Chemical Company is requesting amended registrations for the chlorpyrifos formulations Lorsban® 4E and Lorsban® 15G to allow for their application on onions (dry bulb) grown in Modoc and Siskiyou Counties in California and in the State of Indiana. The remaining pertinent labeling for this proposed amended registration contains the same application rates and restrictions as the currently registered label.

A tolerance of 0.5 ppm has been established for combined residues of the pesticide chlorpyrifos (O,O-diethyl O-(3,5,6-trichloro-2-pyridyl)phosphorothioate and its metabolite 3,5,6-trichloro-2-pyridinol (TCP) in or on dry bulb onions (40 CFR 180.342).

The currently registered use for Lorsban® (4E or 15G) on dry bulb onions allows for one application to be made at planting time using 0.55 oz. active/1000 ft. of row at an 18" row spacing (1 lb. a.i./A) for the control of onion root maggots. Lorsban® is for use on direct seeded onions only and is limited to the states of Idaho, Michigan, Minnesota, New Jersey, New York, Ohio, Oregon, Washington and Wisconsin.

No additional residue data were submitted.

Residue data from studies conducted in New York, Washington, and Wisconsin were submitted in conjunction with PP#0E2387.

The data reflect residues on onions grown from seed. Application rates were 1X and 2X the registered rate (1 lb. a.i./A). Combined residues in harvested onions occurring as a result of the registered use (1 lb. a.i./A) range from undetectable (<0.01 ppm) to 0.28 ppm.

We are willing to translate residue data from Washington to Modoc and Siskiyou Counties which border on the Oregon-California state line and from Wisconsin to Indiana. Therefore, we reiterate our previous conclusion that the established tolerance of 0.5 ppm will be adequate to cover combined residues of chlorpyrifos and its metabolite (TCP) which may occur in or on onions (dry bulb) as a result of this proposed amended registration.

Conclusions and Recommendations

Combined residues of chlorpyrifos and its metabolite (TCP) which may occur in or on onions (dry bulb) as a result of the proposed amended registration will not exceed the established tolerance of 0.5 ppm.

Therefore, we have no objections to the application of Lorsban® to onions (dry bulb) grown in the state of Indiana or in the counties of Modoc and Siskiyou in California.

TS-769:RCB:L.Propst:mch:CM#2:Rm810:X77324:7/22/83
cc: R.F., Circu., L. Propst, Chlorpyrifos S.F., Amended File
RDI: R. Hummel, 7/21/83; R. Schmitt 7/22/83

2