



7-30-86

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

JUL 30 1986

MEMORANDUM

OFFICE OF
PESTICIDES AND TOXIC SUBSTANCES

SUBJECT: ID# 464-511. 1,3-Dichloropropene on Chinese Cabbage.
Accession Number 263483. RCB No 1129.

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TO: Henry M. Jacoby/Robert Forrest, PM Team 21
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Dow Chemical has submitted residue data for 1,3-dichloropropene, a soil fumigant, on Chinese cabbage.

There are no existing tolerances or exemptions from tolerances on residues of 1,3-dichloropropene in or on any food/feed commodities.

The Product Chemistry and Residue Chemistry chapters of the Registration Standard were issued August 12, 1985.

Included in this submission are residue data generated from two trials conducted in Japan. Telone[®] 92 was injected into the fields at 300 liters/hectare (31.7 gallons per acre) as a preplant application. The soil was cultivated to permit volatilization 15 days later. After an additional 2 days, seeding of Chinese cabbage was made. Samples of Chinese cabbage were collected 77 days or 125 days after fumigation.

Samples were prepared by extracting Chinese cabbage with 2:1 water:hexane, drying the hexane layer, and the latter shaken with Florisil. Quantitation of 1,3-dichloropropene was by GC equipped with an electron capture detector. Recoveries of 84% and 86% were obtained at 0.02 ppm fortification of 1,3-dichloropropene.

Sample analysis showed less than 0.001 ppm (limit of detection) residue. At one trial, 3-5 outer leaves were removed prior to analysis.

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Conclusion and Recommendation

Since this submission is not accompanied by any specific registration request, we recommend these data be placed in the Registration Standard files.

cc: Circ, SF, RF, Reg Std (Boodee), Cheng, PMSD/ISB
RDI:EZager:7/30/86
TS-769:RCB:LCheng:CM#2:Rm810:7/30/86:557-7324