

Shaugh. No. 029001

Date out of EAB: DEC 3 1987

To: L. Rossi
Product Manager 21
Registration Division (TS-767)

From: Patrick Holden, Team Leader PWH
Ground Water Team
Exposure Assessment Branch, HED (TS-769)

Attached, please find the environmental fate review of:

Reg./File No.: 464-511

Chemical: Telone

Type Product: Fumigant

Product Name: Telone II

Company Name: DOW Chemical

Submission Purposes: Submission of monitoring findings

ACTION CODE: 660

Date In: 9/3/87

EAB #(s): 70934

Date Completed: 11/30/87

Reviewing Time: .1

Monitoring study requested:

Monitoring study voluntarily:

Deferrals To: Ecological Effects Branch

Residue Chemistry Branch

Toxicology Branch

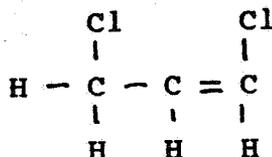
EVALUATION OF MONITORING DATA

1. CHEMICAL:

Chemical name: 1,3-dichloropropene

Common name: telone

Structure:



2. TEST MATERIAL:

Not applicable.

3. STUDY/ACTION TYPE:

Evaluation of monitoring data.

4. STUDY IDENTIFICATION:

Title: letter from Robert Morgan to Lois Rossi dated 8/19/87
and attached report of descriptions of monitoring
studies in several states

Author: G.R. Oliver (author of attached report)

Submitted by: Robert W. Morgan
Manager, Regulatory Planning
Agricultural Products Department
Dow Chemical Company, U.S.A.
Midland, Michigan 48641-1706

Identifying #: 464-511

Issue Date: 9/3/87

Accession No: 403176-00 and 403176-01

Record No: 202,167

5. REVIEWED BY:

Matthew N. Lorber, Agricultural Engineer
Ground Water Team/EAB/HED

Matthew N. Lorber Date 11/30/87

6. APPROVED BY:

Patrick Holden, Team Leader
Ground Water Team/EAB/HED

Patrick Holden Date 12/2/87

7. CONCLUSIONS:

The report by George Oliver describes monitoring efforts which

have looked for the pesticide 1,3-dichloropropene in the states of: California, Nebraska, Florida, Massachusetts, Kansas, Oregon, and New York (Long Island). In some cases, the studies have also included analysis for the metabolite 3-chloroallyl alcohol. All surveys had no detections of 1,3-dichloropropene or 3-chloroallyl alcohol. The attached table, Table 1, summarizes the results of these surveys. All the studies summarized are in the public domain (i.e., no CBI studies are discussed) and are currently being obtained for inclusion in EAB's monitoring filing system. The conclusion by DOW, that "commercial use of TELONE II has not resulted in significant contamination of ground water by 1,3-dichloropropene or 3-chloroallyl alcohol" would appear to be supported by these submitted studies. However, this conclusion is tentative pending the retrospective studies for TELONE II currently in progress by DOW.

8. RECOMMENDATIONS:

No recommendations appropriate. The summary will be maintained in EAB's monitoring filing system.

9. BACKGROUND:

Not applicable.

10. DISCUSSION:

Not applicable.

TABLE I. SUMMARY OF MAJOR GROUND WATER MONITORING SURVEYS WHICH INCLUDED 1,3-DICHLOROPROPENE^{a/}

State	Ref.	No. of Wells Included in Study	No. of Verified Positive Detections of 1,3-Dichloropropene
CA	Maddy et. al. (11)	54	0
	Fischer and Reid (6)	36 ^{b/}	0
	CA State Water Res. Control Board (4)	95 37 ^{c/}	0
	Peoples et. al. (17)	72	0
	CA Dept. of Health Services (3)	2,947 ^{d/}	0
NE	Monke (15)	>60 ^{e/}	0
FL	Ttalikkis (19)	NA ^{f/}	0
MA	MA Interagency Task Force (12)	239	0
KS	Steichen et. al. (18)	104	0
OR	Bruok (2)	7	0

^{a/} Includes actual documented survey programs and does not include listings of individual field studies.
^{b/} Total includes only wells located in areas designated as having history of heavy soil fumigant use.
^{c/} Data presented in the report for an earlier study in Del Norte County.
^{d/} Total number of wells included in the overall study. Number of these wells located in agricultural use areas and analyzed for soil fumigant components was not listed.
^{e/} Represents the number of well water systems.
^{f/} Number of wells sampled was not available at the time of this report. The final report for this survey is now in preparation.

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