Lois Rossi To: Product Manager #21 Registration Division (TS-767) Emil Regelman, Supervisory Chemist From: Review Section #3 Exposure Assessment Branch Hazard Evaluation Division (TS-769) me Forbala Thru: Paul F. Schuda, Ph.D., Chief Exposure Assessment Branch Hazard Evaluation Division (TS-769C) Attached, please find the EAB review of... Reg./File # : 464 -511 Chemical Name: 1,3-Dichloropropene Type Product : Nematicide/Fungicide/Insecticide/Herbicide Product Name : Telone II Company Name: Dow Chemical Company : Addendum to a Standard. Review of photodegradation in air Purpose study; and, reevaluation of field dissipation/well water monitoring study. 605 Action Code(s): Date Received: 11/6/87 & 11/25/87 EAB #(s): 80103 & 80150 Date Completed: 3/29/88 Total Reviewing Time: 2.5 Monitoring study submitted: Monitoring study voluntarily:\_\_\_\_ Ecological Effects Branch Deferrals to: Residue Chemistry Branch Toxicology Branch

Shaughnessy No.: 029001

Date Out of EAB:

Add the Control

#### 1. CHEMICAL: Common name:

1,3-Dichloropropene

### Chemical name:

1.3-Dichloropropene

## Trade name(s):

Telone II Soil Fumigant

### Structure:

## Formulations:

94% Ready to use (RTU)

## Physical/Chemical properties:

Molecular formula: C3H4Cl2.

Molecular weight: 111.

Physical state: Colorless to straw-colored liquid. Vapor pressure: 22 mm Hg at 20°C.

Solubility: Water - 0.1%.

### 2. TEST MATERIAL:

Study 1: Active ingredient.

Study 2: Telone II.

#### 3. STUDY/ACTION TYPE:

Review of photodegradation in air study; re evaluation of field dissipation/well water monitoring studies to satisfy data requirements for 1,3-Dichloropropene Registration Standard.

#### STUDY IDENTIFICATION: 4.

Fontaine, D. and D. Teeter. 1987. Vapor-phase photodegradation of 1,3-dichloropropene. Dow Chemical U.S.A., Ag Chemical R&D Protocol #87083. Prepared by Analytical Bio-Chemistry Laboratories, Inc., Columbia, Missouri, and Dow Chemical U.S.A., Midland, MI; and submitted by Dow Chemical U.S.A., Midland, MI. (MRID #40390101)

Oliver, G.R., E.L. Bjerke, and F.C. O'Melia. 1986. Field dissipation study for Telone II soil fumigant. Prepared and submitted by Dow Chemical U.S.A., Midland, MI. (MRID #40403301).

5. REVIEWED BY:

Padma Datta, Ph.D. Chemist Review Section #3 EAB/HED Signature: PRDalla

Date: 3/29/88

6. APPROVED BY:

Emil Regelman Supervisory Chemist Review Section #3 EAB/HED Signature:

Date:

# 7. CONCLUSIONS:

The study on photodegradation in air (§161-4) is acceptable to EAB. This study shows that 1,3-dichloropropene does not degrade in air. (For details, see the individual DER of 3/4/88 prepared by Dynamac).

The additional data provided to remedy the deficiencies of the terrestrial field dissipation/well-water monitoring study of Telone II in sandy soil in California (MRID #40403301) are acceptable to EAB. The combined data (See EAB review #70111, 6/22/87, and the individual DER of 3/4/88 prepared by Dynamac) make the terrestrial field soil dissipation study for Telone II soil fumigant in sandy soil in California (MRID #40403301) submitted by Dow Chemical Co on July 29, 1986 an acceptable study. However the \$158.130 data requirement for the terrestrial field soil dissipation studies for Telone II (\$164-1) is still only partially fulfilled because data from an additional site are required. (For details, refer to Subdivision N of the Pesticide Assessment Guidelines.)

### 8. RECOMMENDATIONS:

EAB recommends RD inform the registrant, Dow Chemical Co., that the data requirement for a photodegradation in air study (§161-4) is fulfilled and the terrestrial field soil dissipation studies (§164-1) data requirement is partially fulfilled to support registration of 1,3-dichloropropene for terrestrial food crops under 40 CFR §158.130. Data from an additional site are still needed to complete the data requirement for the terrestrial field soil dissipation studies (§164-1).

### 9. BACKGROUND:

EAB review #70111, 6/22/87, documented (1) additional study requirements for 1,3-dichloropropene, including photodegradation in air (§161-4), to support registration under 40 CFR §158.130; and, (2) deficiencies in the terrestrial field soil dissipation/well water monitoring study (§164-1). On 10/22/87, Dow Chemical Co. submitted a study for 1,3-dichloropropene on photodegradation in air (§161-4). On 11/28/87, Dow Chemical Co. submitted an addendum in response to the deficiencies documented in the terrestrial field soil dissipation/well water monitoring study in sandy soil in California (MRID# 40403301).

10. <u>DISCUSSION OF INDIVIDUAL TESTS OR STUDIES:</u>

See attached review of individual study.

- 11. <u>COMPLETION OF ONE-LINER:</u>
- 12. CBI\_APPENDIX:

All data reviewed here are considered "company confidential" by the registrant and must be treated as such.