

Shaughnessy No.: 029001

Date Out of EAB: JAN 27 1988

To: Lois Rossi
Product Manager #21
Registration Division (TS-767C)

From: Emil Regelman, Supervisory Chemist
Review Section #3
Exposure Assessment Branch
Hazard Evaluation Division (TS-769C)

R

Thru: Paul F. Schuda, Ph.D., Chief
Exposure Assessment Branch
Hazard Evaluation Division (TS-769C)

Paul F. Schuda

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

Purpose : Requesting time extension for submission of leaching and
adsorption/desorption studies.

Date Received: 11/6/87

Action Code(s): 660

Date Completed: 1/27/88

EAB #(s) : 80104

Monitoring study submitted:

Total Reviewing Time: 1 day

Monitoring study voluntarily:

Deferrals to: Ecological Effects Branch
 Residue Chemistry Branch
 Toxicology Branch

1. CHEMICAL: Common name:

1,3-Dichloropropene

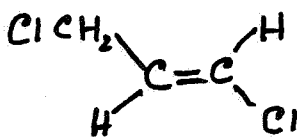
Chemical name:

1,3-Dichloropropene

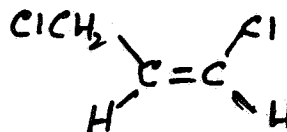
Trade name(s):

Telone II Soil Fumigant

Structure:



(Trans)



(Cis)

Formulations:

94% Ready-to-use (RTU)

Physical/Chemical properties:

Molecular formula: $C_3H_4Cl_2$.

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:

1,3-Dichloropropene

3. STUDY/ACTION TYPE:

No studies were submitted. Dow Chemical Co. requested an extension of 6 months for the submission of leaching and adsorption/desorption studies with 1,3 dichloropropene (\$163-1).

4. STUDY IDENTIFICATION: N/A.

5. REVIEWED BY:

Padma Datta, Ph.D.
Chemist
Review Section #3
EAB/HED/OPP

Signature: PKDatta

Date: 1/27/88.

6. APPROVED BY:

Emil Regelman
Supervisory Chemist
Review Section #3
EAB/HED/OPP

Signature: ERegelman

Date: JAN 27 1988

7. CONCLUSION:

Dow Chemical Co. has experienced difficulty in running the soil column leaching studies and the aged soil column leaching studies with 1,3-dichloropropene (1,3-D) and its major metabolite, 3-chloroallyl alcohol. The high volatility of 1,3-D requires major modifications in column structure and the development of analytical methods which can be time-consuming tasks. Therefore, an extension of six months (until February 29, 1988) to complete these column leaching studies is justified and acceptable to the Exposure Assessment Branch.

8. RECOMMENDATION:

EAB requests RD inform Dow Chemical Co. that EAB has no objection to the requested extension until February 29, 1988 for the completion of the soil column leaching studies of 1,3-D (parent) and aged parent (\$163-1).

9. BACKGROUND:

On July 5, 1984, the Agency sent out a special "data call-in" notice for ground water, toxicology, residue and related data for 1,3-dichloropropene. The authority for this notice is under Section 3(c)(2)(B) of FIFRA, 7 U.S.C. Section 136 a (c)(2)(b), amended 1972. Some of the environmental fate data requirements under 40 CFR \$158.130 and the Pesticide Assessment Guidelines (Subdivision N) were included. In this notice, leaching and adsorption/desorption studies for terrestrial use only (\$163-1) with a 28 month schedule due date (October 14, 1987) were required. Dow Chemical Co. encountered difficulty in conducting the soil column studies due to unacceptable losses of 1,3-D, which is highly volatile. On October 2, 1987, Dow Chemical Company requested an extension until February 29, 1988, for the submission of the leaching and adsorption/desorption studies for both parent (1,3-D) and aged parent.

10. DISCUSSION OF INDIVIDUAL TESTS OR STUDIES: N/A.

11. COMPLETION OF ONE-LINER: N/A.

12. CBI APPENDIX: N/A.