Shaughnessy No.: 034401

		Date	Out of EAB:	NOV 1	9 1985
	•		Signature		
ro:	Wm Miller Product Manager # 16 Registration Division (TS-	-767C)			
From:	Emil Regelman, Acting Chie Review Section 3 Exposure Assessment Branch Hazard Evaluation Division	. <i>J</i>			
Attached p	please find the EAB review o	of			
Reg./File	239-1633			. 	
Chemical	: Naled				
Type Produ	uct:I				
Product Na	me: Naled; Dibro	m	·		, , , , , , , , , , , , , , , , , , ,
Company Na	ame: Chevron Che	mical Company		, i postanji na kolonija ja o	
Purpose	: Protocol reviewel	eaching studies	for regist	ration s	tandard
	· •				
ACTION CO	DE(s): 660	EAB # (s):	6035		
Date Rece	ived : 10/11/85	TAIS Code:	66		,
Date Completed: 11/15/85		Total Reviewi	ng Time: _	2 D	ays
Monitorin	g requested				
Monitorin	g voluntarily Done				
Deferral	s To:				
E	cological Effects Branch				
F	Residue Chemistry Branch				
T	Coxicology Branch				
•					

1.0 CHEMICAL: Naled

1, 2 - Dibromo-2, 2-dichloroethyl dimethyl phosphate

1.1 Other Names: Dibrom, Bromex

2.0 TEST MATERIAL:

(proposed)

[Ethyl-1-14C] naled (Dibrom), specific activity > 10 mCi/m Mole and radiochemical purity > 98%

3.0 STUDY/ACTION TYPE:

Request by registrant for EPA review of protocol for leaching study.

4.0 STUDY INDENTIFICATION:

Protocol: Leaching of [Ethyl - $1 - ^{14}$ C] naled (DIBROM) and metabolites following exposure to four soils for one half-life. D.E. Pack. July 1, 1985. Chevron File # 750.012.

5.0 REVIEWED BY:

Hudson L. Boyd Chemist, Review Section 3 EAB/HED/OPP Signature Kudun Boyl
Date 11/15/61

6.0 APPROVED BY:

Emil Regelman Acting Chief, Review Section 3 EAB/HED/OPP Signature College Date NOV | 9 1985

7.0 CONCLUSIONS:

The proposed protocol conforms with EPA Guidelines, Subdivision N, Sec 163-1 requirements for soil column

studies except the following:

- a. Registrant has not indicated that soils used will be in the pH range of 4 8.
- b. Registrant has not proposed evaluating data by reporting values of soil/water relationships (κ_d) for the test substance and its degradates.

8.0 RECOMMENDATIONS:

Registrant should amend protocol to include 7 (a)(b) above, and should note that data from column leaching studies will not fully fulfill requirements for data on the mobility of naled.

9.0 BACKGROUND:

Available environmental fate data for naled was previously reviewed for the registration standard. Data on the mobility of naled in the soils were not available at that time. This protocol was proposed by the registrant in the interest of filling part of the data gaps identified by the standard.

10. DISCUSSION OF INDIVIDUAL TESTS OR STUDIES

Four soils treated with naled and aged under aerobic 10.1 conditions at 25°C for a time equal to one half-life (predetermined) will be added to the same soils in columns exceeding 30 cm in length and subsequently leached by dropwise addition of 0.0005M CaSO4 solution. Leachates will be collected in 50 or $1\overline{0}0$ ml fractions for a total of about 1000 ml volume. (columns have a cross sectional area of 18.9 cm2, which by EPA Guidelines require a volume of at least 958 ml). After allowing the columns to drain they will be sliced into 6 cm segments and counted for radioactivity and later analyzed for naled and the three known aerobic soil metabolites using either techniques developed for the soil metabolism study or HPLC.

Each of the eluate fractions will be counted for total radioactivity and later analyzed for naled and its metabolites.

The proposed protocol does not cover batch equilibrium (adsorption) studies specified in Sec. 163-1 and in the TASK 2, Topical Discussions of available data prepared August 10, 1982, for the registration standard (naled).

- 11.0 COMPLETION OF ONE-LINER

 Not applicable at this point
- 12.0 <u>CBI APPENDIX</u>

 There is no CBI Appendix.