

US EPA ARCHIVE DOCUMENT

RENY: Nos: 1/22/73

Evaluation of Environmental Data for S-(tert-butylthio)methyl O,O-diethyl phosphorodithioate (AC 92,100) Reg-241-EXP - American Cyanamide Ltr. 12/11/72

I. INTRODUCTION

1. This is a new insecticide for use on corn at planting.
2. Labeled ¹⁴C study.

$$(CH_3 CH_2 O)_2 P \overset{S}{\overset{14}{C}} H_2 S \overset{CH_3}{\overset{C}{\overset{CH_3}{\underset{CH_3}{\text{C}}}}$$
3. Results on soil. ¹⁴C AC92,100 was applied to silt loam soil at a rate of 1 lb/A. Soil - 24% sand, 56% silt, 20% clay, 5.2% OM, pH 6.7 and 15% moisture.

Table I - Page 270 Section D

<u>PHI</u>	<u>Corn Plants</u>	<u>% of Dose</u>	<u>Soil</u>	<u>Total % of Dose</u>
2	.336			
4	2.64		50.4	53
7	4.7		41.5	46
10	6.85 whole plant 6.75 less ear .11 in ear		33.2	40

1/2 life for greenhouse study is about 4-5 weeks.

II. RECOMMENDATION

RL registration. Data to support PR Notice 70-15 are needed for permanent registration. See draft guideline for the environmental residue data needed to support registration.