

US EPA ARCHIVE DOCUMENT

EXPOSURE ASSESSMENT BRANCH ONE LINER

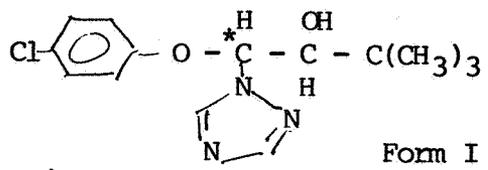
EAB FILE NO: 127201

TYPE PESTICIDE: Fungicide

COMMON NAME: Baytan

STRUCTURE:

CHEMICAL NAME: 1-(4-chlorophenoxy)-3,3-dimethyl-1-(H-1,2,4-triazole-1-yl)-2-butanol



Form I - D

* asymmetric carbon = Form II - L

CHEMICAL PROPERTIES:

<u>Molecular Weight</u>	<u>Aqueous Solubility</u>	<u>Vapor Pressure</u>
_____	Form I 95 ppm	_____
_____	Form II 49 ppm	_____

Partition Coefficients:

<u>Octanol/Water (K_{ow})</u>	<u>Soil Adsorption</u>
Form I 794	
Form II 1305	

Mobility Class: 2	<u>Soil Type:</u>	<u>% Soil O.M.</u>	<u>Coefficients K</u>	<u>TLC R_f</u>
	Kansas loam	3.0	5.26	_____
	Hagerstown Silty Clay	2.1	2.37	_____
	Florida Sand	3.7	4.05	_____
	Kansas silty clay	0.5		0.16
	Oregon sandy loam	2.3		0.58

<u>Hydrolysis</u>	<u>Photolysis</u>	<u>Degradation</u>
<u>pH Half-Life</u>	<u>Half-Life</u>	<u>Lab Half-Life</u>
4.5 stable	Soil: stable	Soil: Aerobic: 8-9 months
7.1 stable		Anaerobic: >>8-9 mos.
9.2 stable	Water: 36 hr	Aquatic
	photo-sensitized: 17 hr. (acetone)	Aerobic: _____
		Anaerobic: _____

FISH BIOACCUMULATION FACTORS

<u>Species</u>	<u>Tissue</u>	<u>Whole Fish</u>	<u>Depuration Half-Life</u>
_____	<u>Edible</u>	<u>Viscera</u>	_____
_____	X	X	_____

FOUND IN GROUND WATER? ESTABLISHED REENTRY INTERVAL ROTATIONAL CROP RESTRICTIONS

COMMENTS: for seed treatment, field dissipation, rotational crop and fish acc. were waived.

REFERENCES: files

Data Requirement	Terrestrial Satisfied	Aquatic Satisfied	Comments
HYDROLYSIS	6/22/83		
PHOTODEGRADATION soil	1/27/84		
water	1/27/84		
SOIL METABOLISM aerobic	6/22/83		
anaerobic			
LEACHING column	6/22/83		
batch	1/27/84		
TLC	6/22/84		
FIELD DISSIPATION soil			waived for seed treatment 6/22/83
water			
forest			
ROTATIONAL CROP			waived for seed treatment 6/22/83
IRRIGATED CROP			
FISH ACCUMULATION			waived for seed treatment 6/22/83
AQUATIC NON-TARGET			