CHLORFENVINPHOS

Last Update on December 14, 1989

[S] = Supplemental Study [V] = Validated Study [U] = USDA Data

Common Name: CHLORFENVINPHOS

Smiles Code:Cl-c(cc(Cl)c1C(OP(=O)(OCC)OCC)=CCl)cc1

PC Code # : 84101 CAS #:470-90-6 Caswell #:

Chem. Name: 2-CHLORO-1-(2,4-DICHLOROPHENYL) VINYL DIETHYL PHOSPHATE

Action Type: INSECTICIDE; ACARICIDE

Trade Names: APACHLOR; BIRLANE; SUPONA

(Formul'tn): EC; WP; GRANULES; SEED TREATMENTS

Physical State:

:AS PREHARVEST INSECTICIDE FOR CONTROL OF VARIOUS ROOT FLIES

Patterns : IN RROT-VEGETABLES.

(% Usage) :

Empirical Form: C₁₂H₁₄PO₄Cl₃

⁻⁻ 359.57 Vapor Pressure: 1.70E -7 Torr Molecular Wgt.:

°C Melting Point: °C Boiling Point:

Log Kow pKa: 6 °C

Henry's \mathbf{E} Atm. M3/Mol (Measured)

Solubility in ... Comments

°C Water E ppm °C Acetone \mathbf{E} ppm Acetonitrile E °C ppm Benzene E °C ppm Chloroform °C E ppm Ethanol E °C ppm @ E Methanol °C ppm Toluene E °C ppm E °C Xylene ppm @ E °C **@** ppm \mathbf{E} °C ppm

Hydrolysis (161-1)

[V] pH 5.0:STABLE

7.0:STABLE Hq [V]

9.0:>400 HOURS AT 38 C Hq [V]

[V] pH :pH 10.5 AND 50 C, 3 HRS

[] pH

[] pH

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Photolysis (161-2, -3, -4) [] Water: [] : [] : [] Soil :
[] Air : Aerobic Soil Metabolism (162-1) [V] 34 DAYS AT 38 C IN A RIPPERDAN [] SOIL [V] 50 DAYS AT 22 C IN A SACRA- [] MENTO CLAY SOIL [] [] []
Anaerobic Soil Metabolism (162-2) [] [] [] [] [] [] [] [] []
Anaerobic Aquatic Metabolism (162-3) [] [] [] [] [] [] [] []
Aerobic Aquatic Metabolism (162-4) [] [] [] [] [] [] [] [] []

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Soil	Partition Coefficient	(Kd)	(163-1)				,
[]							
Soil [S] [] [] []	Rf Factors (163-1) VERY LITTLE LEACHING ENT AND NO DETECTABLE ING OF DEGRADATES IN	LEAC	CH-				
Labo	ratory Volatility (163-	2)					
Field []	d Volatility (163-3)				·		. •
Terro [V] [] [V] [V] [V] [V] [V] [V] [V] [V]	estrial Field Dissipati 2 TO 12 WEEKS IN MINE AND 16 TO 23 WEEKS IN IN SdLm CONTAINING .4 MENT, CONCENTRATIONS 90 DAYS.	RAL S PEAT AND	SOILS TRE SOIL. .5 MG/KG	: IMMEDI	ATELY	AFTER	TREAT-
Aqua: [] [] [] [] []	tic Dissipation (164-2)						
Fore	stry Dissipation (164-3)					

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Long-Term Soil Dissipation (164-5)
Accumulation in Rotational Crops, Confined (165-1) [] []
Accumulation in Rotational Crops, Field (165-2) [] []
Accumulation in Irrigated Crops (165-3) [] []
Bioaccumulation in Fish (165-4) [] []
Bioaccumulation in Non-Target Organisms (165-5) [] []
Ground Water Monitoring, Prospective (166-1) [] [] [] []
Ground Water Monitoring, Small Scale Retrospective (166-2) [] [] [] []
Ground Water Monitoring, Large Scale Retrospective (166-3) [] [] [] []
Ground Water Monitoring, Miscellaneous Data (158.75) [] [] []

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Field Runoff (167-1)

Surface Water Monitoring (167-2)	
Spray Drift, Droplet Spectrum (201-1	
<pre>Spray Drift, Field Evaluation (202-1 [] [] [] []</pre>)
Degradation Products	
Degradates and amounts in soil after 15 ppm: 1-(2,4-dichlorophenyl)ethan-1-0. 2,4-dichloroacetophenone desethyl chlorfenvinphos salts or conjugates of desethyl	L (.06-1.0 ppm) (.15 ppm) (.12 ppm)

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Comments

Field studies show that at 4-6 lb AIA, residues of 1-(2,4-dichlorophenyl)ethan-1-ol and 2,4-dichloroacetophenone do not exceed 0.2 ppm by the end of the growing season.

References: EPA REVIEWS

Writer : PJH