Last Update on October 26, 1989

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

Common Name: CLOFENTEZINE

Smiles Code:

PC Code # :125501

CAS #:74115-24-5

Caswell #:

Chem. Name :3,6-BIS(2-CHLOROPHENYL)-1,2,4,5-TETRAZINE

Action Type:MITICIDE/OVICIDE

Trade Names:

(Formul'tn):SOL. CONC.

Physical State:

:AS AN ACARICIDE FOR THE CONTROL OF EGGS AND EARLY MOTILE Use :STAGES OF PANONYCHUS ULMI AND TETRANYCHUS spp ON TOP FRUIT Patterns

(% Usage) :AND OTHER CROPS

Empirical Form: $C_{14}H_8N_4Cl_2$ E Torr 303.14 Vapor Pressure: Molecular Wqt.: °C Melting Point: Boiling Point: pKa: @ °C Log Kow Atm. M3/Mol (Measured) Henry's E :

Comments Solubility in ... 1.00E °C ppm **@20.0** Water E a °C Acetone ppm E °C Acetonitrile 6 ppm E °C Benzene ppm °C E @ Chloroform ppm °C E **@** Ethanol ppm °C \mathbf{E} **a** Methanol ppm °C E @ Toluene ppm °C \mathbf{E} Xylene **@** ppm °C E 0 ppm

ppm

°C

E

Hydrolysis (161-1)

[V] pH 5.0:248.8 HR

[V] pH 7.0:34.4 HR

[V] pH 9.0:4.3 HR

[] pH

[] pH

[] •

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Photolysis (161-2, -3, -4) [V] Water: <7 DAYS AT pH 5 [] : [] : [] :
[V] Soil :STABLE [] Air :
Aerobic Soil Metabolism (162-1) [] Sd
Anaerobic Soil Metabolism (162-2) [] similar to aerobic, but without CO2 evolution [] [] [] [] [] []
Anaerobic Aquatic Metabolism (162-3)
Aerobic Aquatic Metabolism (162-4)
[] [] [] [] [] []

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Soil [] [] [] []	Partition Coefficient (Kd)	(163-1)	
Soil [V] [V] [] []	Rf Factors (163-1) <0.15 LOAMY SAND <0.15 SANDY LOAM		
Labor	ratory Volatility (163-2)		
Field [] []	d Volatility (163-3)		
	estrial Field Dissipation (1 34-83 DA BARE GROUND - TX 52 DA BARE GROUND - U.K. MOST SOIL RESIDUES BELOW I		RCHARD, NY
Aquat [] [] [] [] []	tic Dissipation (164-2)		
Fores	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) [V] BECAUSE THE HYDROLYTIC T1/2 IS SO SHORT, BIOACCUMULATION [] IN FISH SEEMS UNLIKELY
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) [] [] [] []	
<pre>Spray Drift, Droplet Spectrum (201-1) [] [] [] []</pre>	
Spray Drift, Field Evaluation (202-1) [] [] [] [] []	
Degradation Products	
2-chlorobenzoic-(2-chlorobenzylidine)hydrazide (hydrol.) 2-chlorobenzonitrile (2ndary deg.) 2-chlorobenzamide (2ndary deg.) CO2 (aerob. soil met)	

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Comments

In the soil photolysis study, 85.9% of the parent remained after 31 days.

No significant leaching of parent of degradation products. Clofentezine is a relatively short-lived, non-mobile, compound which does not pose a risk to groundwater and will not be expected to accumulate in rotational crops.

Data on aerobic soil metabolism concerns enclish soils. Sums of the components do not equal 100%.

References: FARM CHEMICALS HANDBOOK; EPA REVIEWS

Writer: PJH, updated EBC-P 5/31/91