Environmental Fate & Effects Division
PESTICIDE ENVIRONMENTAL FATE ONE LINE SUMMARY
F-6285
Last Update on October 22, 1991
[V] = Validated Study [S] = Supplemental Study [U] = USDA Data

LOGOUT	Reviewer:	Section Head:	Date:

Common Name:F-6285
PC Code # :129081 CAS #:030589 Caswell #:

Chem. Name :1-(2,4-dichloro-5-methylsulfonamidophenyl)-4-difluoromethyl -4,5-dihydro-3-methyl-1H-1,2,4-triazol-5-one
Action Type:Request for EUP

Trade Names:
(Formul'tn):
Physical State: Solid

Use :Herbicide for control of grass and broadleaf weeds
Patterns :
(% Usage) :
:

Empirical Form: $C_{11}H_{10}Cl_2F_2N_4O_3S$
Molecular Wgt.: 387.19 Vapor Pressure: 8.00E-10 Torr
Melting Point : 126.50 C °C Boiling Point: °C
Log Kow : 0.99 (PH 5) pKa: 6.56 @ 25.0°C
Henry's : 1.00E-12 Atm. M3/Mol (Measured) 1.02E-12 (calc'd)

Solubility in ...					Comments
Water	4.00E	2	ppm	@25.0 °C	
Acetone	E		ppm	@ °C	
Acetonitrile	E		ppm	@ °C	
Benzene	E		ppm	@ °C	
Chloroform	E		ppm	@ °C	
Ethanol	E		ppm	@ °C	
Methanol	E		ppm	@ °C	
Toluene	E		ppm	@ °C	
Xylene	E		ppm	@ °C	
	E		ppm	@ °C	
	E		ppm	@ °C	

Hydrolysis (161-1)
[S] pH 5.0:t1/2 = 143 days at 25 °C
[S] pH 7.0:t1/2 = 207-375 days at 25 °C
[S] pH 9.0:t1/2 = 348 days at 25 °C
[ ] pH :No degradates were identified
[ ] pH :
[ ] pH :

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Photolysis (161-2, -3, -4)
[ ] Water:
[ ] :
[ ] :
[ ] :

[ ] Soil :
[ ] Air :

Aerobic Soil Metabolism (162-1)
[S] t1/2 = 114-122 days in sandy loam soil at 24 °C
[S] Two non volatile metabolites were identified in sandy loam soil
[ ] these included F6285-3-carboxylic acid (11.8-23.9% of the total
[ ] recovered at 90 days) and F6285-3-hydroxymethyl (2.3% at 61 days
[ ] for the carbonyl-label and 6.3% at 33 days for the phenyl label)
[ ]
[ ]

Anaerobic Soil Metabolism (162-2)
[ ]
[ ]
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[ ]
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Anaerobic Aquatic Metabolism (162-3)
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Aerobic Aquatic Metabolism (162-4)
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Soil Partition Coefficient (Kd) (163-1)
[S] K(adsorp) = 0.551 ; K(desorp) = 1.35 in sandy loam soil.
[S] K(adsorp) = 0.767 ; K(desorp) = 1.44 in silt loam.
[S] K(adsorp) = 0.773 ; K(desorp) = 1.34 in silty clay loam.
[S] K(adsorp) = 0.153 ; K(desorp) = 1.23 in sand
[ ]
[ ]

Soil Rf Factors (163-1)
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[ ]
[ ]

Laboratory Volatility (163-2)
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[ ]

Field Volatility (163-3)
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Terrestrial Field Dissipation (164-1)
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Aquatic Dissipation (164-2)
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[ ]

Forestry Dissipation (164-3)
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[ ]

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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)
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Ground Water Monitoring, Small Scale Retrospective (166-2)
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[ ]
[ ]
[ ]

Ground Water Monitoring, Large Scale Retrospective (166-3)
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[ ]

Ground Water Monitoring, Miscellaneous Data (158.75)
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[ ]

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Field Runoff (167-1)
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[ ]
[ ]

Surface Water Monitoring (167-2)
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[ ]
[ ]

Spray Drift, Droplet Spectrum (201-1)
[ ]
[ ]
[ ]
[ ]

Spray Drift, Field Evaluation (202-1)
[ ]
[ ]
[ ]
[ ]

Degradation Products

Aerobic Soil Metabolism: Two degradates were identified in sandy loam soil, these were F6285-3-carboxylic acid and F6285-3-hydroxy-methyl

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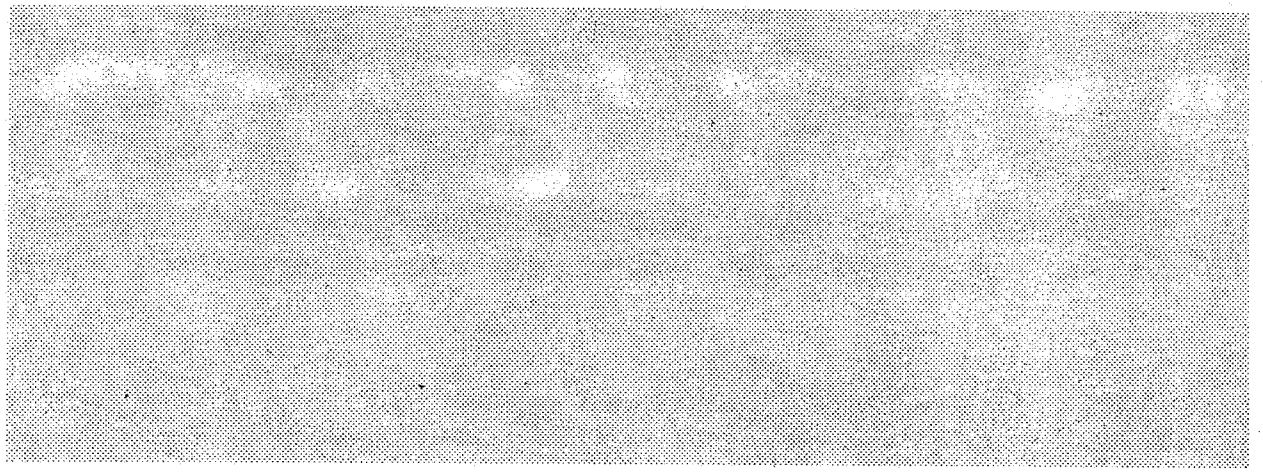
Comments



References:
Writer : mts