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

Common Name: TRIADIMEFON

Smiles Code:

PC Code # :109901

CAS #:43121-43-3

Caswell #:

Chem. Name: 1-(4-CHLOROPHENOXY)-3,3-DIMETHYL-1-(1H-1,2,4-TRIAZOL-1-YL)-

2-BUTANONE

Action Type: FUNGICIDE (SYSTEMIC)

Trade Names: BAYLETON; AMIRAL

(Formul'tn): WP; EC; SUSP. CONCENTRATE; PASTE; DRY FLOWABLE

Physical State:

Use :TERRESTRIAL FOOD, NON-FOOD, FOOD+FEED, NON-FOOD+OUTDOOR,

Patterns :GREENHOUSE NON-FOOD, OUTDOOR RESIDENTIAL.

(% Usage) :

Empirical Form: $C_{14}H_{14}ClN_3O_2$

Molecular Wgt.: 291.73 Vapor Pressure: 1.30E -8 Torr

Melting Point: °C Boiling Point: °C

Log Kow : 3.18 pKa: @ °C

Henry's : 2.30E -9 Atm. M3/Mol (Measured) 7.03E-11 (calc'd)

Solubility in ... Comments

Water	71.00E	ppm	@20.0	°C
Acetone	E	ppm	@	°C
Acetonitrile	Ē	ppm	e	°C
Benzene	E	ppm	@	°C
Chloroform	E	ppm	e	°C
Ethanol	E	ppm	@	°C
Methanol	E	ppm	@	°C
Toluene	E	ppm	@	°C
Xylene	E	ppm	@	°C
	E	ppm	@	°C
	E	maa	a	°C

Hydrolysis (161-1)

- [] pH 5.0:
- [] pH 7.0:
- [S] pH 9.0:95% REMAINS AFTER 28 WKS
- [S] pH 3.0:97% " " "
- [S] pH 6.0:95% " " "
- [] pH :

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Photolysis (161-2, -3, -4) [] Water:10-12 HOURS [] : [] : [] :
[V] Soil :STABLE [] Air :
Aerobic Soil Metabolism (162-1) [S] SOIL %s, s, c %OC T1/2 [S] SiCl 0 66 34 2.4 6 DA [S] SL 74 16 10 17.1 18 " [] [] [] [] [] []
Anaerobic Soil Metabolism (162-2) [S] SiCl 15 DAYS (STERILE CON- [S] DITIONS INHIBIT BREAKDOWN) [] [] [] [] [] [] []
Anaerobic Aquatic Metabolism (162-3) [] [] [] [] [] [] [] [] []
Aerobic Aquatic Metabolism (162-4) [] [] [] [] [] [] [] []

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```
Soil Partition Coefficient (Kd) (163-1)
      1.85 IN SANDY LOAM
      2.4 IN SAND
 [S]
     2.6 IN CLAY LOAM
 rsi
      6.9 IN SILT LOAM
 [S]
 [ ]
 [ ]
Soil Rf Factors (163-1)
                        %OM
                                Rf
            %s, s, c
 [ ]
            91 1 1
                        0.8
                                0.27
 []
 [ ]
                                0.16
            74 14 13
                        2.8
                                0.20
            56 21 23
                        0.6
 [
            18 57 25
                        5.1
                                0.26
             0 41 59
                        0.5
                                0.20
Laboratory Volatility (163-2)
 [ ]
 [ ]
Field Volatility (163-3)
 [ ]
Terrestrial Field Dissipation (164-1)
                                               0-6"
                                                           6-12"
      SOIL
                 % s, s, c
                               %OM
                                                          8.7 MOS
                  88 9 3
                               7.6
                                     TRIAD.
                                              5.5 MOS.
 [S]
      FLA.SAND
                                              6.0 "
                                                          6.5
 [S]
                                     KWG
                                                               11
                                              4.5
                                                         17
                  55 35 10
                               0.5
                                     TRIAD
      CA fSL
 [S]
                                     KWG
                                              24
 [S]
                                               8.0 "
                                                               11
                                                          23
                                     TRIAD
 [S]
      OR LOAM
                  41 45 14
                               4.5
 [ ]
 [ ]
 [ ]
Aquatic Dissipation (164-2)
 [ ]
 [ ]
 [ ]
 [ ]
 [
   ]
Forestry Dissipation (164-3)
 [ ]
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TRIADIMEFON

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Long-Term Soil Dissipation (164-5) [] []
Accumulation in Rotational Crops, Confined (165-1) [] []
Accumulation in Rotational Crops, Field (165-2) [] 1 YR ROTATION FOR SMALL GRAINS, BLACK-EYED PEAS. [] 1 MONTH ROTATION FOR RADISHES.
Accumulation in Irrigated Crops (165-3) [] []
Bioaccumulation in Fish (165-4)
[] WHOLE FISH. DEGRADATES NOT IDENTIFIED.
Bioaccumulation in Non-Target Organisms (165-5) [V] CLOVER PLANTS STUNTED @ 50 PPM; NITROGEN FIXATION [] BY CLOVER APPARENT AT 10 PPM.
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) [] [] [] [] []
Spray Drift, Field Evaluation (202-1) [] [] [] []
Degradation Products
KWG 0519 (Baytan) has T1/2 in soil of 9-12 months Triazole Hydroxy triazole

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Comments

Aged residues are moderately mobile and have the potential to leach into ground water.

Kd of parent: 1.85 to 6.93

Koc = 300 (U)

References:

Writer: H. Manning, 12/18/90