

Common Name: **TRIADIMEFON**
 Chem. Name : 1-(4-CHLOROPHENOXY)-3,3-DIMETHYL-1-(1H-1,2,4-TRIAZOL-1-YL)-2-BUTANONE
 Shaugh. # : 109901 CAS Number: 43121-43-3
 Type Pest. : FUNGICIDE (SYSTEMIC)
 Formulation: WP; EC; SUSP. CONCENTRATE; PASTE; DRY FLOWABLE
 Uses : AGAINST POWDERY MILDEW AFFECTING DECIDUOUS FRUIT, CEREALS
 : AND VEGETABLES; RUST DISEASES OF CEREALS, COFFEE, SEED
 : GRASSES; DISEASES ON SUGARCANE, PINEAPPLE, ORNAMENTALS

Empir. Form: $C_{14}H_{14}ClN_3O_2$
 Mol. Weight: 291.73
 Solub.(ppm): 70 @ 20 C

VP (Torr): <E-6
 Log Kow : 2.99
 Henry's :

Hydrolysis (161-1)

pH 5:[]
 pH 7:[]
 pH 9:[] 95% REMAINS AFTER 28 WKS
 pH 3:[] 97% " " " "
 pH 6:[] 95% " " " "
 pH :[]

Photolysis (161-2, -3, -4)

Air :[]
 Soil :[*] STABLE
 Water:[] 10-12 HOURS
 :[]
 :[]

MOBILITY STUDIES (163-1)

Soil Partition (Kd)

	s	s	c	CEC	%OM	K
1.[]						
2.[]	46	36	18	27.6	3	9.3
3.[]	4	53	43	28.6	2.1	3.5
4.[]	92	7	1	26.6	3.7	5.9
5.[]						
6.[]						

Rf Factors

	%s	s	c	%OM	Rf
1.[]					
2.[]	91	1	1	0.8	0.27
3.[]	74	14	13	2.8	0.16
4.[]	56	21	23	0.6	0.20
5.[]	18	57	25	5.1	0.26
6.[]	0	41	59	0.5	0.20

METABOLISM STUDIES (162-1,2,3,4)

Aerobic Soil (162-1)

	SOIL	%s	s	c	%OC	Tl/2
1.[]						
2.[]	SiCl	0	66	34	2.4	6 DA
3.[]	SL	74	16	10	17.1	18 "
4.[]						
5.[]						
6.[]						
7.[]						

Anaerobic Soil (162-2)

	SiCl	15 DAYS (STERILE CON- DITIONS INHIBIT BREAKDOWN)
1.[]		
2.[]		
3.[]		
4.[]		
5.[]		
6.[]		
7.[]		

Aerobic Aquatic (162-4)

1.[]
2.[]
3.[]
4.[]

Anaerobic Aquatic (162-3)

1.[]
2.[]
3.[]
4.[]

ENVIRONMENTAL FATE & GROUND WATER BRANCH
PESTICIDE ENVIRONMENTAL FATE ONE LINE SUMMARY

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Common Name: **TRIADIMEFON**

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VOLATILITY STUDIES (163-2,3)

- ☐ Laboratory:
☐ Field:

DISSIPATION STUDIES (164-1,2,3,5)

Terrestrial Field (164-1)

1. ☐	SOIL	% s, s, c	%OM		0-6"	6-12"
2. ☐	FLA.SAND	88 9 3	7.6	TRIAD.	5.5 MOS.	8.7 MOS
3. ☐				KWG	6.0 "	6.5 "
4. ☐	CA fSL	55 35 10	0.5	TRIAD	4.5 "	17 "
5. ☐				KWG	24 "	
6. ☐	OR LOAM	41 45 14	4.5	TRIAD	8.0 "	23 "

Aquatic (164-2)

1. ☐
2. ☐
3. ☐
4. ☐
5. ☐
6. ☐

Forestry (164-3)

1. ☐
2. ☐

Other (164-5)

1. ☐
2. ☐

ACCUMULATION STUDIES (165-1,2,3,4,5)

Confined Rotational Crops (165-1)

1. ☐
2. ☐

Field Rotational Crops (165-2)

1. ☐ 1 YR ROTATION FOR SMALL GRAINS, BLACK-EYED PEAS.
2. ☐ 1 MONTH ROTATION FOR RADISHES.

Irrigated Crops (165-3)

1. ☐
2. ☐

Fish (165-4)

1. ☐ CHANNEL CATFISH, 6.5-7.6 EDIBLE
2. ☐

Non-Target Organisms (165-5)

1. ☐ [*] CLOVER PLANTS STUNTED @ 50 PPM; NITROGEN FIXATION
2. ☐ BY CLOVER APPARENT AT 10 PPM.

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GROUND WATER STUDIES (158.75)

1. []
2. []
3. []

DEGRADATION PRODUCTS

1. KWG 0519 (BAYTAN) HAS T_{1/2} IN SOIL OF 9-12 MONTHS
2. TRIAZOLE
3. HYDROXY TRIAZOLE
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.

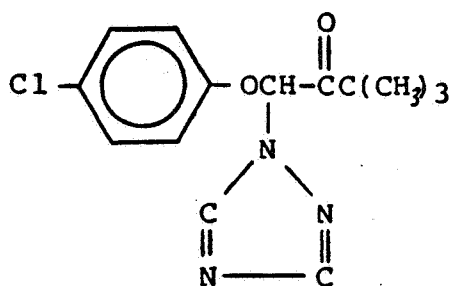
COMMENTS

AGED RESIDUES ARE MODERATELY MOBILE AND HAVE THE POTENTIAL TO
LEACH INTO GROUND WATER.

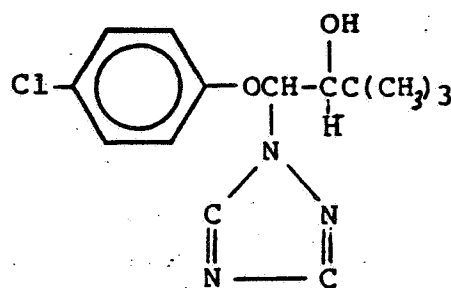
SOIL K_{oc} = 7,100,000 (ESTIMATE).

References:

Writer : J. HANNAN



BAYLETON
[TRIADIMEFON]



KWG 0519
[Bayten]