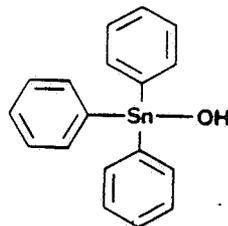


US EPA ARCHIVE DOCUMENT



ENVIRONMENTAL FATE
PESTICIDE ENVIRONMENT

ANCH
SUMMARY

Common Name: **TRIPHENYLTIN HYDROXIDE**
Chem. Name . TRIPHENYLTIN HYDROXIDE

Date: 09/14/89

Shaugh. # . 83601

CAS Number: 76-87-9

Type Pest. : FUNGICIDE

Formulation. WP, FLOWABLE CONC.

Uses : POTATOES, SUGAR BEETS, CARROTS, PEANUTS

Empir. Form: C₁₈H₁₆SnO
Mol. Weight: 367.0
Solub.(ppm). 8 @ 20 C

VP (Torr) <1E-7
Log Kow : 3.84
Henry's :

Hydrolysis (161-1)

PH 5:[*] pH 4.6 79.5 DA 21C
PH 7:[*] STABLE
PH 9:[*] STABLE
PH 4:[*] STABLE
PH 6:[*] STABLE
PH10:[*] STABLE

Photolysis (161-2, -3, 4)

Air :[]
Soil :[]
Water:[]
:[]
:[]
:[]

MOBILITY STUDIES (163-1)

Soil Partition (Kd)

1.[*] 16 SANDY CLAY LOAM 0.23%OM
2.[*] 75 LOAMY SAND 0.21%OM
3.[*] >99 CLAY 1.83%OM
4.[*] >99 ORGANIC 5.02%OM
5.[]
6.[]

Rf Factors

1.[#] 0.21 IN LAKELAND SdLm
2.[#] 0.01-0.05 IN NORFOLK SdLm,
3.[] STERLING ClLm, HAGERSTOWN
4.[] SiClLm, AND BARNES ClLm.
5.[]
6.[]

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

Aerobic Soil (162-1)

1.[#] <4 WEEKS IN UNIDENTIFIED SOIL
2.[#] 6 WEEKS IN SILT LOAM
3.[#] 5 WEEKS IN SANDY LOAM
4.[#] 11 WEEKS IN SILT LOAM
5.[]
6.[]
7.[]

Anaerobic Soil (162-2)

1.[#] 126 DAYS IN LEEWANEE SiLm
2.[]
3.[]
4.[]
5.[]
6.[]
7.[]

Aerobic Aquatic (162-4)

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

Anaerobic Aquatic (162-3)

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

[*] - Acceptable Study. [#] = Supplemental Study

Common Name: **TRIPHENYL TIN HYDROXIDE**

Date: 09/14/89

VOLATILITY STUDIES (163-2,3)

- Laboratory:
- Field:

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

Terrestrial Field (164-1)

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.

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. [#] RESIDUES: .04 PPM IN BEAN HULLS AND SEEDS, AND .09
- 2. PPM IN SPINACH, PLANTED 190 DAYS AFTER 330 G AIHA

Field Rotational Crops (165-2)

- 1.
- 2.

Irrigated Crops (165-3)

- 1.
- 2.

Fish (165-4)

- 1. [#] BLUEGILL EDIB. 3300X; VISC. 5500X; WHOLE 4700X. DEPURATION WAS
- 2. RELATIVELY SLOW WITH T_{1/2} FOR RESIDUES = 35 AND 32 DAYS.

Non-Target Organisms (165-5)

- 1.
- 2.

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

Page 3

Common Name: **TRIPHENYLTIN HYDROXIDE**

Date: 09/14/89

GROUND WATER STUDIES (158.75)

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

DEGRADATION PRODUCTS

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.

COMMENTS

References. EPA REVIEWS
Writer : J. HANNAN

[*] Acceptable Study. [#] = Supplemental Study