Shaughnessy No.: 109901

Date Out of EAB: OCT 26 1988

m:	Donald Stubbs/Libby Pemberton Product Manager 41 Registration Division (TS-767C)
ROM:	Patrick W. Holden, Chief Ground-Water Technology Section Environmental Face and Ground-Water Branch Environmental Face and Effects Divisions (TS-769C)
THRU:	Environmental Face and Effects Divisions (TS-769C) Henry Jacoby, Acting Chief Environmental Face and Ground-Water Branch Environmental Face and Effects Division (TS-769C)
Actached,	please find the EAB review of
Reg./File	# : 3125-340-AA
Chemical	Name : Triadimefon
Type Prod	uct : Fungicide
Product N	ame : Bayleron
Company N	ame :
Purpose	: Review Section 18 request by California Department of Food
	and Agriculture for use on artichokes.
Date Rece	ived: 9/19/88 Action Code: 510
Date Comp	leted: 10/14/88
	Total Reviewing Time (decimal days): 1.5 days
Deferrals	to: x Ecological Effects Branch, EFED
	Science Integration & Policy Staff, EFED
	Non-Dietary Exposure Branch, HED
	Dietary Exposure Branch, HED
	Toxicology Branch, HED
	·

TO:

CHEMICAL:

Triadimefon Common name:

Chemical name: 1-(4-chlorophenoxy)-3,3-dimerhyl-1-

(1H-1,2,4-criazol-1-yl)-2-bucanone

Trade Names: Baylecon, Amiral

50% wettable powder Formulation:

Chemical Structure:

- TEST MATERIAL: Not applicable
- STUDY/ACTION TYPE: Request by the California Department of Food and 3. Agriculture for reissuance of a Emergency Exemption (Section 18) to use triadimefon on artichokes on 14,400 acres in California.
- STUDY IDENTIFICATION: Not applicable
- 5. REVIEWED BY:

Richard C. Doyle Chemist, GWTS EFGWB/EFED/OPP

Richard C. Dogle

Date: 10/26/88

Mil DR Burt

APPROVED BY: 6.

> Patrick W. Holden, Chief, GWTS EFGWB/EFED/OPP

Date:

7. CONCLUSIONS:

Previous reviews by Environmental Fate and Ground-Water Branch (EFGWB) (formerly Exposure Assessment Branch) determined that aged residues of triadimefon are moderately mobile and thus have the potential to leach into ground water in some situations. The region in which the use of triadime fon is proposed can be divided into two areas: a flat coastal region; and, a rolling hilly inland area. The coastal region has soils with a predominately clay loam texture with organic matter at 3 to 4%, a perched water table at 5-10 ft that is drained by tiles at 8 ft in most The inland area is areas, and potable aquifers at 270 ft and below.

areas, and potable aquifers at 270 ft and below. The inland area is dominated by sandy clay and sandy clay loam soils with 0.5 to 15% organic matter. Depth to ground water is variable but is generally \geq 270 feet. There is no perched water table in this area. Both areas have impermeable clay layers at varying depths, and the subsoils tend to have a heavier texture than the surface soil. Irrigation is used in both areas. The total water input is expected to average 1.75 acrefeet/year.

The potential for triadimefon to leach to potable ground-water supplies following application for a single season appears to be low in light of the soil characteristics, depth to potable ground water, and expected water inputs. However, leaching to the perched water table in the coastal regions is almost certain. Much of the water in the perched water table is drained into adjacent estuaries. Triadimefon in the perched water table of undrained areas is not expected to migrate to deeper aquifers.

8. RECOMMENDATIONS:

Application of triadimefon to 14,400 acres of artichokes in California (Monterey County and adjacent areas) for a single season does not appear to pose a threat to potable ground water. The perched water table along the coastal region (30% of treated area) is expected to be contaminated. Much of this contaminated water will be drained into nearby estuarine systems. EFGWB defers to Ecological Effects Branch to evaluate the hazard to the estuarine ecology.

- 9. BACKGROUND: Refer to Section 3.
- 10. DISCUSSION OF INDIVIDUAL TESTS OR STUDIES:

No studies submitted.

11. COMPLETION OF ONE-LINER:

No changes required.

12. CBI APPENDIX:

Not Applicable.