US ERA ARCHIVE DOCUMENT

EEE BRANCH REVIEW

DATE: IN_	OUT	IN 10/5/76XIT	10/15/76	IN OUT	
FISI	H & WILDLIFE	ENJIRONMENTAL	CHEMISTRY	EFFICAGY	
					To the second se
FILE OR REG.	NO. 6	17-EUP-12			
PETITION OR I	CN TIMRIG . TX	. 661871			
DATE DIV. REX	CEIVED				e de la companie
			A Company of the Comp		
TYPE PRODUCT	(S): I, D, H,	F, N, R, S	Abscission	Ald	
PRODUCT MGR.	NO. Stubbs		CH Proposition and the second		
PRODUCT NAME		2.5	A STATE OF THE STA		era de la companya de
COMPANY NAME	Diamon	i Shampock			
SUBMISSION PO	JRPOSE SUP on	Citrus as an abso	:ission aid	કેટલ કર્યું કર	
CHEMICAL & FO	ORMULATION	Chlore the font			
Back Street Control		ietrachieroisophti			المراجع المعاد

Experience of the second salam stranger in the attack of the commence of the

Baraker am a Sir A

Marin Commence

The company of the second

1.0	Introducti	on	4				
1.1	Bravo, Dac	onii, Fortu	rf				
1.2	Percent Ac	tive: 39% 4 lb	ai s ai/g	allon			
1.3	Citrus fru	its as an a	bsciss	ion aid.			
1.4	Other envi	ronmental r	eviews				
•	677-313 677-EUP 1F1024	6/22/7 3/04/7 5/04/7	. 4	7/76			
2.0	Directions	for Use			<u>,</u>		
2.1	Do not reu	se empty co rate 1t.	ontaine	r. Bury	it or tripl	e rinse	
2.2	Sweep alone does not cause abscission. Sweep exerts a synergistic effect when used with Release and/or Acti-Aid.						
2.3	Specific Use Directions						
	Read and 1 and ACTI-/	follow all	label d	irection Florida	s for SWEEP, on oranges 1	RELEASE for processing.	
					e* (See note	below.)	
		Sweep		lease /500 gal	.)	Acti-Aid	
Early and season va		1/2 to 2 (1/2 to 2	plus lbs ai	/4 to 1	plus	1/8 to 1/2	
Valencia		1 (1 1b ai)	plus	1 to 2	plus	1/4	
			S	veep (Qua	rts/500 gall	Acti-Aid	
Early and Midseason	i Varieties			2 2 lbs a1	. plus	1/2 to 3/4	
Valencia	lencia NOT RECOMMENDED						

		Sweep (Quarts/	Release ons)	
Early and Midseason Var	ieties	1	plus	3/4 to 1-1/4
Valencia		(1 lb. at)	plus	2 to 2-1/2

*Note: Important considerations for maximum fruit loosening:

- A. Apply all treatments with 2 quarts of Ortho X-77 per 500 gallons.
- B. Use SWEEP with the lower concentrations of the indicated rate range of abscission chemical(s) when temperatures are above 50°F with early and midseason varieties and during the early and late part of the Valencia harvest. Also use when harvesting by hand or with shaker-catch frame or limb shaker mechanical harvesting.
- C. Use SWEEP with the higher concentrations of the indicated rate range of abscission chemical(s) when temperatures are below 50°F, and during the middle of the Valencia harvest when fruit are less responsive to abscission chemicals. Also use when air harvesting or harvesting when preharvest fruit drop is desirable.
- D. Keep the ratio of quarts of ACTI-AID (Component A) to quarts of SWEEP at 1 to 4 when the two are used in combination with RELEASE for maximum fruit loosening.

2.4 Application Volume and Equipment

Make application 4 to 7 days prior to anticipated harvest. Apply 500-1000 gallons per acre with equipment that has been properly calibrated and nozzles properly arranged to obtain uniform fruit coverage. Coverage of leaves and fruit is important for maximum effectiveness, especially in the tops of tall trees. Gallonage per tree varies from 5 to 10 gallons depending on tree shape, size, foliage and spacing.

2.5 When to Harvest

Fruit will begin to loosen two to three days after application. The desired fruit removal force of about 6 pounds or less will be reached 4 to 7 days after application depending on the variety and the environmental conditions. More rapid loosening is obtained under high temperature and humidity conditions.

2.6 General Use Precautions

DO NOT APPLY:

- 1. On fresh market oranges.
- When rain is predicted within 24 hours, although a light, misty rain 6 to 8 hours after application should not greatly reduce effectiveness.
- 3. On trees following heavy dew until the moisture has dried from the fruit and leaves.
- 4. Within 2 weeks following a freeze.
- 5. In wind conditions that favor drift.
- In combination with ACTI-AID alone on Valencias.
- 7. More than once per season.

Trees under stress conditions such as drought, insect or disease infestations, etc., product more ethylene in the absence of abscission chemical treatment. Application of abscission chemicals containing SWEEP to trees under stress may cause additional leaf drop.

3.0 Summary

For an experimental use permit, only hydrolysis and aerobic soil metabolism studies are needed. There is adequate data on file to concur with the proposed use under the EUP.

4.0 Recommendations

We concur with the proposed use under the EUP.

Raffy 10/26/26
Many Dodd 10/26/76

Ronald E. Ney, Jr. 10/14/76 Nancy Dodd 10/14/76 Environmental Chemistry Section Efficacy and Ecological Effects Branch