5481-145

-10-19-2009

Tacked ()



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs Registration Division (7505P) Ariel Rios Building 1200 Pennsylvania Ave., NW Washington, D.C. 20460

NOTICE OF PESTICIDE:

___ Registration

X Reregistration (under FIFRA, as amended)

EPA Reg. Number: 5481-145

Date of Issuance:

0000 U TUU

OCT 19 2009

Term of Issuance:

Name of Pesticide Product:

Citrus Fix

Name and Address of Registrant (include ZIP Code):

AMVAC

4100 E. Washington Blvd.

Los Angeles, CA 90023

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is reregistered in accordance with FIFRA provided that you:

1) Submit and/or cite all data required for registration/reregistration review of your product when the Agency requires all registrants of similar products to submit data.

Signature of Approving Official:

Date:

DCT 19 2009

Joanne Miller Product Manager 23 Herbicide Branch

Registration Division (7505P)

Page 2 EPA Reg. 5481-145

Master Label

- 1) Per the acute toxicity and product chemistry reviews, a footnote must be added to the ingredient statement which reads "Contains petroleum distillates".
- 2) Per the acute toxicity review, the text "Have person sip a glass of water if able to swallow" appearing in the "IF SWALLOWED" first aid statements must be revised to read "Do not give any liquid to the person."

Based on toxicity ranking per the acute toxicity review, the First Aid statements should be placed on the label in the following order:

"IF SWALLOWED:...
IF ON SKIN OR CLOTHING:...
IF INHALED:...
IF IN EYES:.."

- 3) The Note to Physician text must be revised to read as specified in the acute toxicity review, "May pose an aspiration pneumonia hazard. Contains petroleum distillate".
- 4) Per the acute toxicity review and the RED, the handler PPE must be revised to read:

"Some materials that are chemical resistant to this product are made of barrier laminate or viton. If you want more options, follow the instructions for category G on an EPA chemical-resistance category selection chart.

All mixers, loaders, applicators and other handlers must wear:

Long-sleeved shirt and long pants,

Shoes and socks,

Chemical-resistant gloves,

Chemical-resistant apron when applying postharvest dips or sprays to citrus, mixing or loading, cleaning up spills or equipment, or otherwise exposed to the concentrate."

- 5) The mechanical transfer engineering control text (including PPE requirements) is no longer needed and should be deleted from the label.
- 6) If this product is not intended to be applied by air, add a statement prohibiting aerial application and delete all reference to aerial application. Otherwise, the following text must be added to the label:
- "Pilots must use an enclosed cockpit that meets the requirements listed in the WPS for agricultural pesticides [40CFR 170.240 (d)(6)."

Page 3 EPA Reg. 5481-145

- 7) Per the 2,4-D RED label table, the text in **bold type** below must be added to the following User Safety Requirements:
- "...If no such instructions for washables exist, use detergent and hot water..."
- 8) The text in bold type must be added to the User Safety Recommendation text currently on the label:
- "User should remove clothing/PPE immediately if pesticide gets inside."
- 9) Per the RED, the Environmental Hazard text must be revised to read:

"This pesticide is toxic to fish and aquatic invertebrates. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment was waters or rinsate.

This chemical has properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination. Application around a cistern or well may result in contamination of drinking water or groundwater."

- 10) Per the product chemistry review dated 5/28/08, revisions are needed to the Physical and Chemical Hazards statements. Under the heading "Physical or Chemical Hazards"; "Combustible" must precede "Do not use, pour... or open flame".
- 11) Per the RED, the early entry PPE appearing in the Agricultural Use Requirements box must be revised to read:

"Coveralls, Chemical-resistant gloves made of any waterproof material, Shoes plus socks."

12) Because the packing house use is a Non-WPS use, a Non-Agricultural Use Requirements box and the following text must be added to the label:

"NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to product agricultural plants on farms, forests, nurseries, or

Page 4 EPA Reg. 5481-145

greenhouses. Do not enter or allow other to enter the treated area until sprays have dried."

- 13) Per the product chemistry review dated 5/28/08, revisions are needed to the storage and disposal section of the label. Change "Storage" to "Pesticide Storage". In the pargraph under the subheading "Pesticide Disposal" the statement "Do not contaminate water, food, or feed by storage or disposal" must be placed in the beginning of the section under the Storage and Disposal heading in accordance with 40 CFR 156.10 and PR Notice 83-3. Update the Container Disposal section to comply with PR Notice 2007-4.
- 14) Per the RED, the following spray drift text must be added to the label:

"Spray Drift Management

A variety of factors including weather conditions (e.g., wind directions, wind speed, temperature, relative humidity) and method of application (e.g., ground, aerial, airblast, chemigation) can influence pesticide drift. The applicator must evaluate all factors and make appropriate adjustments when applying this product.

Droplet Size

When applying sprays that contain 2,4-D as the sole active ingredient, or when applying sprays that contain 2,4-D mixed with active ingredients that require a coarse or coarser spray, apply only as a coarse or coarser spray (ASAE standard 572) or a volume mean diameter of 385 microns or greater for spinning atomizer nozzles.

When apply sprays that contain 2,4-D mixed with other active ingredients that require a medium or more fine spray, apply only as a medium or coarser spray (ASAE standard 572) or a volume mean diameter of 300 microns or greater for spinning atomizer nozzles.

Wind Speed

Do not apply at wind speeds greater than 15 mph. Only apply this product if the wind direction favors on-target deposition and there are not sensitive areas (including, but not limited to, residential areas, bodies of water, known habitat for nontarget species, nontarget crops) within 250 feet downwind. If applying a medium spray, leave one swath unsprayed at the downwind edge of the treated field.

Temperature Inversions *

If applying at wind speeds less than 3 mph, the applicator must determine if: a) conditions of temperature inversion exist, or b) stable atmospheric conditions exist at or below nozzle height. Do not make applications into areas of temperature inversions or stable atmospheric conditions.

Susceptible Plants

Do not apply under circumstances where spray drift may occur to food, forage, or other plantings that might be damaged or crops thereof rendered unfit for sale, use or consumption. Susceptible

Page 5 EPA Reg. 5481-145

crops include, but are not limited to, cotton, okra, flowers, grapes (in growing stage), fruit trees (foliage), soybeans (vegetative stage), ornamentals, sunflowers, tomatoes, beans, and other vegetables, or tobacco. Small amounts of spray drift that might not be visible may injure susceptible broadleaf plants.

Other State and Local Requirements

Applicators must follow all state and local pesticide drift requirements regarding application of 2,4-D herbicides. Where states have more stringent regulations, they must be observed.

Equipment

All application equipment must be properly maintained and calibrated using appropriate carriers or surrogates.

2,-4-D esters may volatilize during conditions of low humidity and high temperatures. Do not apply during conditions of low humidity and high temperatures.

For aerial application, if applicable:

The boom length must not exceed 75% of the wingspan or 90% of the rotor blade diameter.

Release spray at the lowest height consistent with efficacy and flight safety. Do not release spray at a height greater than 10 feet above the crop canopy unless a greater height is required for aircraft safety. This requirement does not apply to forestry or rights-of-way applications.

When applications are made with a crosswind, the swath will be displaced downwind. The applicator must compensate for this by adjusting the path of the aircraft upwind."

For ground boom application:

Do not apply with a nozzle height greater than 4 feet above the crop canopy."

15) The following rate restrictions must be added to the directions for use and any conflicting text must be deleted from the label:

"Increase fruit size on growing Navel oranges, Valencia oranges and grapefruit:

Limited to one application per crop cycle.

Maximum of 45 grams ae per acre (0.1 lbs ae per acre).

To reduce pre-harvest fruit drop on growing Navel oranges, Valencia oranges and grapefruit:

Limited to one application per crop cycle.

Maximum rate of 200 ppm per application.

Page 6 EPA Reg. 5481-145

To prevent pre-harvest drop of mature fruit and leaves on lemons, Navel oranges, Valencia oranges and Tangelos:

Limited to one application per crop cycle.

Maximum rate of 24 ppm per application.

Postharvest packing house application to lemons:

Limited to one application per crop.

Maximum rate of 500 ppm per application."

Note: The text a 500 ppm concentration of 2,4-D is recommended" must be deleted from the label. This rate is required not recommended.

- 16) To the Warranty section add "to the extent consistent with applicable law" in front of "there are no express warranties", "this warranty does not extent to", "buyer's exclusive remedy" and "in no event shall".
- 17) To the label add "Use of this product in certain portions of California, Oregon, and Washington is subject to the January 22, 2004 Order for injunctive relief in <u>Washington Toxics Coalition</u>, et. al. v. EP, C01-0132C, (W.D. WA). For further information, please refer to http://www.epa.gov/espp/wtc.".

Comments on SLN labels:

CA040027:

No label revisions are needed.

FL890040:

1) Per the acute toxicity review, the heading "Statement of Practical Treatment" must be replaced with the heading "First Aid" and first aid statements must be revised to read:

"IF SWALLOWED:

Call a poison control center or doctor immediately for treatment advice.

Do not give any liquid to the person.

Do not induce vomiting unless told to by a poison control center or doctor.

Do not give anything by mouth to an unconscious person.

IF ON SKIN OR CLOTHING:

Take off contaminated clothing.

Rinse skin immediately with plenty of water for 15-20 minutes.

Page 7

EPA Reg. 5481-145

Call a poison control center or doctor for treatment advice."

IF IN EYES:

Hold eye open and rinse slowly and gently with water for 15-20 minutes.

Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.

Call a poison control center or doctor for treatment advice.

IF INHALED:

Move person to fresh air.

If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferable mouth-to-mouth if possible.

Call a poison control center or doctor for further treatment advice."

2) Per the acute toxicity review and PR Notice 2001-1, the following should be added to the label:

"Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact [insert phone number 1-800-xxx-xxxx] for emergency medical treatment information."

3) Per the acute toxicity review, the Hazards to Humans and Domestic Animals must be revised to read:

"CAUTION

Harmful if swallowed. Harmful if absorbed through skin. Avoid contact with eyes, skin, or clothing."

4) Per the acute toxicity review and the RED, the handler PPE must be revised to read:

"Some materials that are chemical resistant to this product are made of barrier laminate or viton. If you want more options, follow the instructions for category G on an EPA chemical-resistance category selection chart.

All mixers, loaders, applicators and other handlers must wear:

Long-sleeved shirt and long pants,

Shoes and socks,

Chemical-resistant gloves,

Chemical-resistant apron when applying postharvest dips or sprays to citrus, mixing or loading, cleaning up spills or equipment, or otherwise exposed to the concentrate."

5) The mechanical transfer engineering control text (including PPE requirements) is no longer needed and should be deleted from the label.

Page 8 EPA Reg. 5481-145

- 6) Per the 2,4-D RED label table, the text in **bold type** below must be added to the following User Safety Requirements:
- "...If no such instructions for washables exist, use detergent and hot water..."
- 7) The text in bold type must be added to the User Safety Recommendation text currently on the label:
- "Remove clothing/PPE immediately if pesticide gets inside."
- 8) Per the RED, the Environmental Hazard text must be revised to read:

"This pesticide is toxic to fish and aquatic invertebrates. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment was waters or rinsate.

This chemical has properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination. Application around a cistern or well may result in contamination of drinking water or groundwater."

- 9) Per the product chemistry review dated 5/28/08, revisions are needed to the Physical and Chemical Hazards statements. Under the heading "Physical or Chemical Hazards"; "Combustible" must precede "Do not use, pour... or open flame".
- 10) Per the RED, the early entry PPE appearing in the Agricultural Use Requirements box must be revised to read:

"Coveralls, Chemical-resistant gloves made of any waterproof material, Shoes plus socks."

11) Per the RED, the following rate restrictions must be added to the directions for use and any conflicting text must be deleted:

"To reduce pre-harvest fruit drop on growing Navel oranges, Valencia oranges and grapefruit:

Limited to one application per crop cycle. Maximum rate of 200 ppm per application.

To prevent pre-harvest drop of mature fruit and leaves on lemons, Navel oranges, Valencia

Page 9 EPA Reg. 5481-145

oranges and Tangelos:

Limited to one application per crop cycle. Maximum rate of 24 ppm per application."

- 12) The word "CAUTION" appearing on Page 2 of the label before the text "Do not use equipment...", must be deleted from the label.
- 13) Per the product chemistry review dated 5/28/08, revisions are needed to the storage and disposal section of the label. Change "Storage" to "Pesticide Storage". In the pargraph under the subheading "Pesticide Disposal" the statement "Do not contaminate water, food, or feed by storage or disposal" must be placed in the beginning of the section under the Storage and Disposal heading in accordance with 40 CFR 156.10 and PR Notice 83-3. Update the Container Disposal section to comply with PR Notice 2007-4.
- 14) Make the same changes to the Warranty section as the Master Label.

FL980006:

1) Per the acute toxicity review, the heading "Statement of Practical Treatment" must be replaced with the heading "First Aid" and first aid statements must be revised to read:

"IF SWALLOWED:

Call a poison control center or doctor immediately for treatment advice.

Do not give any liquid to the person.

Do not induce vomiting unless told to by a poison control center or doctor.

Do not give anything by mouth to an unconscious person.

IF ON SKIN OR CLOTHING:

Take off contaminated clothing.

Rinse skin immediately with plenty of water for 15-20 minutes.

Call a poison control center or doctor for treatment advice."

IF IN EYES:

Hold eye open and rinse slowly and gently with water for 15-20 minutes.

Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.

Call a poison control center or doctor for treatment advice.

IF INHALED:

Move person to fresh air.

If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferable mouth-to-mouth if possible.

Call a poison control center or doctor for further treatment advice."

Page 10 EPA Reg. 5481-145

2) Per the acute toxicity review and PR Notice 2001-1, the following should be added to the label:

"Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact [insert phone number 1-800-xxx-xxxx] for emergency medical treatment information."

3) Per the acute toxicity review, the Hazards to Humans and Domestic Animals must be revised to read:

"CAUTION

Harmful if swallowed. Harmful if absorbed through skin. Avoid contact with eyes, skin, or clothing."

4) Per the acute toxicity review and the RED, the handler PPE must be revised to read:

"Some materials that are chemical resistant to this product are made of barrier laminate or viton. If you want more options, follow the instructions for category G on an EPA chemical-resistance category selection chart.

All mixers, loaders, applicators and other handlers must wear:

Long-sleeved shirt and long pants,

Shoes and socks,

Chemical-resistant gloves,

Chemical-resistant apron when applying postharvest dips or sprays to citrus, mixing or loading, cleaning up spills or equipment, or otherwise exposed to the concentrate."

- 5) The mechanical transfer engineering control text (including PPE requirements) is no longer needed and should be deleted from the label.
- 6) Per the 2,4-D RED label table, the text in **bold type** below must be added to the following User Safety Requirements:
- "...If no such instructions for washables exist, use detergent and hot water..."
- 7) The text in bold type must be added to the User Safety Recommendation text currently on the label:

"Remove clothing/PPE immediately if pesticide gets inside."

8) Per the RED, the Environmental Hazard text must be revised to read:

Page 11 EPA Reg. 5481-145

"This pesticide is toxic to fish and aquatic invertebrates. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment was waters or rinsate.

This chemical has properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination. Application around a cistern or well may result in contamination of drinking water or groundwater."

- 9) Per the product chemistry review dated 5/28/08, revisions are needed to the Physical and Chemical Hazards statements. Under the heading "Physical or Chemical Hazards"; "Combustible" must precede "Do not use, pour... or open flame".
- 10) The Agency questions the need for the Agricultural Use Requirements box and the accompanying text for this post harvest use, a Non-WPS use.

If this text is retained, the early entry PPE appearing in the Agricultural Use Requirements box must be revised to read:

"Coveralls, Chemical-resistant gloves made of any waterproof material, Shoes plus socks."

Additionally, an REI of 12 hours must be added to this section of the label, if an Agricultural Use Requirements box is retained.

11) Per the RED, the following rate restrictions must be added to the directions for use and any conflicting text must be deleted:

Postharvest packing house application to lemons:

Limited to one application per crop. Maximum rate of 500 ppm per application."

- 12) Per the product chemistry review dated 5/28/08, revisions are needed to the storage and disposal section of the label. Change "Storage" to "Pesticide Storage". In the pargraph under the subheading "Pesticide Disposal" the statement "Do not contaminate water, food, or feed by storage or disposal" must be placed in the beginning of the section under the Storage and Disposal heading in accordance with 40 CFR 156.10 and PR Notice 83-3. Update the Container Disposal section to comply with PR Notice 2007-4.
- 13) To the Warranty section add "to the extent consistent with applicable law" in front of "there

Page 12 EPA Reg. 5481-145

are no express", "this warranty does not extent to", "User's exclusive remedy", and "in no event shall".

A stamped copy of the label is enclosed for your records. You must submit one copy of the final printed label before you release the product for shipment. Products shipped after 12 months from the date of this letter must bear the new revised label. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA. Your release for shipment of the product constitutes acceptance of these conditions. This label supersedes all other previously accepted labels. If you have any questions please call Erik Kraft at 703-308-9358 or email at Kraft.Erik@epa.gov.



CITRUS FIXTM

Plant Growth Regulator

ACCEPTED with COMMENTS In EPA Letter Dated:

OCT 1 9 2009

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No.

ACTIVE INGREDIENT:	5481-145
Isopropyl Ester of 2,4-Dichlorophenoxyacetic Acid*	45.0%
INERT INGREDIENTS:	55.0%
TOTAL:	100.0%

*2,4-Dichlorophenoxyacetic Acid Equivalent 38%

3.36 lbs. 2,4-D acid equivalent per gallon

The State of California Department of Agriculture classifies this ester of 2,4-D as "Highly Volatile" and therefore does not permit its use as a herbicide in California.

KEEP OUT OF REACH OF CHILDREN CAUTION

	EIDOT AID			
·	FIRST AID			
If swallowed:	Call a poison control center or doctor immediately for treatment advice.			
	Have person sip a glass of water if able to swallow.			
	• Do not induce vomiting unless told to do so by the poison control center or doctor.			
	Do not give anything by mouth to an unconscious person.			
If inhaled:	Move person to fresh air.			
	• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by			
•	mouth-to-mouth, if possible.			
	Call a poison control center or doctor for further treatment advice.			
If on skin or	Take off contaminated clothing.			
clothing: • Rinse skin immediately with plenty of water for 15-20 minutes.				
	Call a poison control center or doctor for treatment advice.			
If in eyes:	Hold eye open and rinse slowly and gently with water for 15-20 minutes.			
	• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.			
	Call a poison control center or doctor for treatment advice.			
-	EMERGENCY INFORMATION			
Have the produc	t container or label with you when calling a poison control center or doctor, or going for treatment.			
	LOWING EMERGENCIES, PHONE 24 HOURS A DAY:			
Transportation:	CHEMTREC1-800-424-9300			
Other: AMVAC	1-323-264-3910			
	NOTE TO PHYSICIAN			
Contains aromat	ic solvents. Vomiting may cause aspiration pneumonia.			

Contains aromatic solvents. Vointing may cause aspiration pheumonia.

SEE SIDE/BACK PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS AND DIRECTIONS FOR USE.

EPA REG. NO. 5481-145 EPA EST NO. 5481-CA-1 Net Contents:
As Marked on Container



Los Angeles, CA 90023 USA 1-323-264-3910 • www.amvac-chemical.com

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Causes moderate eye irritation. Harmful if swallowed, absorbed through the skin or inhaled. Avoid contact with skin, eyes or clothing. Avoid breathing vapor or spray mist.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for Category (G) on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

- · Long-sleeved shirt and long pants
- Chemical-resistant gloves such as barrier laminate, or viton.
- Shoes plus socks
- Protective eyewear
- Mixers and loaders who do not use a mechanical system (probe and pump) to transfer the contents of this container must wear coveralls or a chemical resistant apron in addition to the other required PPE.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. After each day of use, clothing or PPE must not be reused until it has been cleaned.

ENGINEERING CONTROLS STATEMENT

When handlers use closed system, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations

User should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This product is toxic to aquatic invertebrates. Vapors, spray drift or runoff may adversely affect aquatic invertebrates and non-target plants. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high-water mark. Do not contaminate water when disposing of equipment wash waters.

Groundwater Contamination: Most cases of groundwater contamination involving phenoxy herbicides such as 2,4-D have been associated with mixing/loading and disposal sites. Caution should be exercised when handling 2,4-D pesticides at such sites to prevent contamination of groundwater supplies. Use of closed systems for mixing or transferring this pesticide will reduce the probability of spills. Placement of the mixing/loading equipment on an impervious pad to contain spills will help prevent groundwater contamination.

PHYSICAL OR CHEMICAL HAZARDS

Do not use, pour, spill or store near heat or open flame.

145²20071119r4. 8 mo.pdci Page 2 of 6

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation. Do not apply this product through any type of irrigation system.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry intervals. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- · Coveralls
- Chemical resistant gloves, such as Barrier Laminate or Viton
- Shoes plus socks
- Protective eyewear

USE PRECAUTIONS

- ' ALCO CITRUS FIX is a plant growth regulator for use on citrus only. Do not use as a herbicide!
- Do not use on citrus trees less than 6 years old.
- Do not apply during a flush of leaf growth.
- Do not apply within 7 days of harvest.
- Do not allow drift to susceptible plants, which include but not limited to: cotton, grapes, roses, beans, peas, alfalfa, lettuce, ornamentals and broadleaf plants. This product may injure cotton, beans, peas, grapes, ornamentals, etc. (coarse sprays are less likely to drift).
- Do not use equipment that has been used to spray ALCO CITRUS FIX to spray 2,4-D sensitive plants. Always use caution in disposing of spray solutions as they can cause extreme injury or kill sensitive plants. (See Storage and Disposal section.)
- Before using spray equipment for any other purpose, thoroughly clean same with hot soap suds followed by soaking and washing with ammonia or baking soda.

USE DIRECTIONS

The following "Use Directions" as well as the above "Use Precautions" are taken from data developed and published by the University of California Experiment Station, Riverside, California. For additional Uses and Precautions of ALCO CITRUS FIX in California, consult the UC IPM Pest Management Guidelines - CITRUS "Plant Growth Regulator" Section or visit www.ipm.ucdavis.edu/pdf/pmg/pmgcitrus.pdf.

MIXING DIRECTIONS

Carefully measure and accurately add the required quantity of ALCO CITRUS FIX to the spray mixture. Add only during the agitation of the spray material.

PRE-HARVEST FRUIT DROP CONTROL

Add the required amount of ALCO CITRUS FIX to give the required milliliters or fluid ounces per acre as shown in Table 1. Spray to ensure coverage on the outside of tree canopy. A minimum of 100 gallons per acre is recommended for mature trees.

TABLE 1						
Citrus Variety	Geographic Location	Application Timing	Application Rate			
			ml/acre	fl oz/acre		
		Sept - Nov.	75.0	2.5		
Navel Oranges	Central/Southern CA	Dec Jan.	37.5	1.25		
		Sept Nov. Fall Whitewash (Hydrated Lime)	112.5	3.8		
Valencia Oranges	Central/Southern CA	Fruit Size 1/2" dia. min.	37.5	1.25		
Grapefruit (Summer Fruit Drop)	Central/Southern CA	Fruit Size 3/4" dia. min.	75.0	2.5		
Grapefruit (Winter Fruit Drop)	Central/Southern CA	Oct Jan.	75.0	2.5		
	Central/Southern CA	Fall Whitewash (Hydrated Lime)	112.5	3.8		
Tangelo (Minneola), and other Citrus Hybrids	Central/Southern CA	Sept - Nov.	75.0	2.5		
Tangerines (mandarins, mandarin oranges, and Satsuma mandarins)	Central/Southern CA	Sept - Nov.	75.0	2.5		
Lemons and Limes	Inland CA Only	Oct Dec.	56.25	1.9		

COUNTERACT LEAF AND FRUIT DROP CAUSED BY OIL SPRAYS

For use in pesticide oil sprays to counteract leaf drop and fruit drop caused by the oil.

Use 2.2 ml of ALCO CITRUS FIX per gallon of spray oil. Use sufficient spray volume to ensure good coverage.

INCREASING FRUIT SIZE

Fruit sizing sprays require excellent coverage. A minimum of 500 gallons per acre for mature trees is recommended. Apply water spray as an outside coverage using the recommended milliliters or fluid ounces of ALCO CITRUS FIX shown in Table 2.

TABLE 2						
Variety	Fruit Size at Time of Spraying (Inches in Diameter)	Milliliters Per Acre	Fluid Ounces Per Acre			
	3/16 to 1/4	56	1.9			
Navel &	1/4 to 1/2	75	2.5			
Valencia Oranges	1/2 to 5/8	94	3.2			
	5/8 to 3/4	112.5	3.8			
	1/4 to 3/8	56	1.9			
Grapefruit	3/8 to 5/8	75	2.5			
	5/8 to 3/4	94	3.2			
	3/4 to 1	112.5	3.8			

1/18

DIRECTIONS FOR PACKING HOUSE USE

- 1. To keep buttons alive and healthy, and therefore prevent Alternaria rot.
- 2. In lemon packing houses where a water-wax emulsion is applied to the fruit prior to storage, the growth regulator should be added to this wax emulsion.
- 3. If a water-wax emulsion is not used, then a separate treatment must be arranged to follow the final fresh water rinse of the fruit. Such a treatment could be designed so as to flush a growth regulator solution over the fruit and re-circulate the surplus or apply a very fine spray of growth regulator to the fruit and not re-circulate the small surplus. The amount of growth regulator adhering to the fruit would be about the same in either case, so no change in concentration would be necessary.
- 4. A 500 ppm concentration of 2,4-D is recommended. This is obtained by adding 1-5/8 fluid ounces (48 ml) of ALCO CITRUS FIX to each 10 gallons of water.

ADDITIONAL PRECAUTIONS

- 1. Under certain circumstances which seem to be related to the use of chromates in the airwasher, 2,4-D is not compatible with nitrogen trichloride, "Decco", as used for control of decay. Packing houses using Decco should avoid using a growth regulator in the wax emulsion, or use it with extreme caution. Rind injury appearing as reddish or brownish discoloration has been greatly intensified by these growth regulators in some packing houses using Decco.
- 2. When a minimum storage period is desired it would be a disadvantage to use 2,4-D because of the delay in changing to a yellow color. Also the percentages of juice may not increase as rapidly.
- 3. Late summer use of 2,4-D in the packing house may necessitate more careful culling for weak fruit (blossom-end decline) because of the retention of green buttons in such fruit.

IMPORTANT: Any equipment used in spraying any product containing 2,4-D should not be used to spray 2,4-D sensitive plants. In disposing of solutions of 2,4-D, it should be borne in mind that they can cause extreme injury or death to sensitive plants.

STORAGE AND DISPOSAL

STORAGE: This product may crystallize if stored at cold temperatures. If crystallization occurs, call AMVAC for instructions before using. Store product in original container in a secure, dry and temperate area. Keep container closed when not in use. Do not store near food, feed, fertilizers, seeds, insecticides or fungicides. Do not store 30 gallon drums over two high. Do not use or store around the home. Avoid contact with water. In case of spill or leak, soak up with sand, earth, or synthetic absorbent (do not use alkaline absorbents) and dispose of wastes in compliance with local State and Federal regulations.

PESTICIDE DISPOSAL: Do not contaminate water, food or feed by storage or disposal. Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law and may contaminate groundwater. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA regional office for guidance.

CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by State and local authorities, by burning. If burned stay out of smoke.

ALCO CITRUS FIX may be used as a Plant Growth Regulator on Citrus in Florida. Refer to CITRUS FIX Florida labels EPA SLN No. FL-890040 and EPA SLN No. FL-980006 for complete directions.

145-20071119r4. 8 mo.pdci Page 5 of 6



LIMITED WARRANTY AND DISCLAIMER

The manufacturer warrants (a) that this product conforms to the chemical description on the label; (b) that this product is reasonably fit for the purposes set forth in the directions for use, subject to the inherent risks referred to herein, when it is used in accordance with such directions; and (c) that the directions, warnings, and other statements on this label are based upon responsible experts' evaluations of reasonable tests of effectiveness, of toxicity to laboratory animals and to plants and residues on food crops, and upon reports of field experience. Tests have not been made on all varieties of food crops and plants, or in all states or under all conditions.

THERE ARE NO EXPRESS WARRANTIES OTHER THAN THOSE SET FORTH HEREIN. THE MANUFACTURER NEITHER MAKES NOR INTENDS, NOR DOES IT AUTHORIZE ANY AGENT OR REPRESENTATIVE, TO MAKE ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, AND IT EXPRESSLY EXCLUDES AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE, OR ANY WARRANTY OF QUALITY OR PERFORMANCE. THIS WARRANTY DOES NOT EXTEND TO, AND THE BUYER SHALL BE SOLELY RESPONSIBLE FOR, ANY AND ALL LOSS OR DAMAGE WHICH RESULTS FROM THE USE OF THIS PRODUCT IN ANY MANNER WHICH IS INCONSISTENT WITH THE LABEL DIRECTIONS, WARNINGS OR CAUTIONS.

BUYER'S EXCLUSIVE REMEDY AND MANUFACTURER'S OR SELLER'S EXCLUSIVE LIABILITY FOR ANY AND ALL CLAIMS, LOSSES, DAMAGES, OR INJURIES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER OR NOT BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY IN TORT OR OTHERWISE, SHALL BE LIMITED, AT THE MANUFACTURER'S OPTION, TO REPLACEMENT OF, OR THE REPAYMENT OF THE PURCHASE PRICE FOR, THE QUANTITY OF PRODUCT WITH RESPECT TO WHICH DAMAGES ARE CLAIMED. IN NO EVENT, SHALL MANUFACTURER OR SELLER BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

AMVAC offers this product, and Buyer accepts it, subject to the foregoing Limited Warranty which may be varied only by agreement in writing signed by an authorized representative of AMVAC.

ALCO[®] is a registered trademark of AMVAC Chemical Corporation. CITRUS FIXTM is a trademark of AMVAC Chemical Corporation.

AMVAC Chemical Corporation 4100 E. Washington Boulevard Los Angeles, CA 90023 U.S.A. 1-323-264-3910 www.amvac-chemical.com

145-20071119r4. 8 mo.pdci Page 6 of 6