



CITRUS FIX™

4/94

45% ISOPROPYL ESTER 3.36 LBS. 2,4-D ACID EQUIVALENT PER GALLON

ACTIVE INGREDIENT:

Isopropyl Ester of 2,4-Dichlorophenoxyacetic Acid*	- - - - -	45.0%
INERT INGREDIENTS:	- - - - -	55.0%
	Total	100.0%

*2,4-Dichlorophenoxyacetic Acid Equivalent 38%

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 an herbicide in California

ACCEPTED

AUG 4 1997

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 5481-145

FOR THE FOLLOWING EMERGENCIES, PHONE 24 HOURS A DAY
TRANSPORTATION: CHEMTREC - - - - - 1-800-424-9300
MEDICAL: HAZARD INFORMATION SERVICES (H.I.S.) 1-800-228-5635 Ext. 169

KEEP OUT OF REACH OF CHILDREN CAUTION

STATEMENTS OF PRACTICAL TREATMENT

IF SWALLOWED: Do not induce vomiting. Call a physician or Poison Control Center immediately. **IF INHALED:** Remove to fresh air. Administer artificial respiration if necessary. Contact a physician immediately. **IF ON SKIN:** Wash affected area with soap and water. **IF IN EYES:** Immediately flush eyes with plenty of water. See a physician.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Avoid inhaling fumes or spray. Avoid contact with skin, eyes, or clothing. Harmful if swallowed.

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 and 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: Users 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

Vapors, spray drift or runoff may adversely affect nontarget plants. This product may injure cotton, beans, peas, grapes, ornamentals, etc. (coarse sprays are less likely to drift). Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean highwater mark. Do not contaminate water when disposing of equipment washwaters. 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 AND CHEMICAL HAZARDS

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

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. (145amd-a.pms106-25-97)

See Side/Back Panel For Additional Precautionary Statements

EPA Reg. No. 5481-145 NET CONTENTS 1 GALLON EPA Est. No. 5481-CA-1

AMVAC CHEMICAL CORPORATION

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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 interval. 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 and Protective eyewear.

STORAGE AND DISPOSAL

STORAGE This product may crystallize if stored at cold temperatures. If crystallization occurs, call Amvac Chemical Corporation 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.

IMPORTANT: PLEASE READ BEFORE USE

By using this product, the user accepts the following: **LIMITED WARRANTY:**

AMVAC warrants that (a) this product conforms to the chemical description on its label; (b) this product is reasonably fit for the purposes stated on its label, subject to the inherent risks referred to herein, when used in accordance with its directions; and (c) that the directions, warnings, cautions, and other statements on this label are based upon responsible experts' evaluations of reasonable tests of effectiveness, of toxicity to laboratory animals and plants, of residues on food crops, and upon reports of field experience. Testing has not been performed on all varieties of food crops, and plants, in all states, or under all application, weather and crop conditions.

There are no express warranties other than those set forth herein. Amvac neither makes nor intends, nor does it authorize any agent or representative to make, any other warranty, express or implied. Amvac expressly excludes and disclaims all implied warranties of merchantability, fitness for particular purpose, or any other warranty of quality or performance.

This warranty does not extend to, and the user shall be solely responsible for, any loss or damage which results from the use of this product in any manner which is inconsistent with this label's directions, warnings or cautions.

User's exclusive remedy and Amvac's or seller's exclusive liability for any claim, loss, damage, or injury 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 Amvac's option, to replacement of, or repayment of the purchase price for, the quantity of product with respect to which damages are claimed. In no event shall Amvac or Seller be liable for special, indirect, or consequential damages resulting from the use or handling of this product.

CITRUS FIX may be used as a Plant Growth Regulator on Citrus in Florida. Refer to CITRUS FIX Florida label; EPA SLN NO. FL 890040 for complete directions.

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 to drift to susceptible plants, which include cotton, grapes, roses, beans, peas, alfalfa, lettuce, ornamentals and broadleaf plants.
- 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.

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. (145amd-b.pm506-25-97)

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 the chart below. Spray to give outside coverage. A minimum of 100 gallons per acre for mature trees is recommended.

CITRUS VARIETY	GEOGRAPHIC LOCATION	APPLICATION TIMING	APPLICATION RATE ml/acre - fl.oz./acre		SUGGESTED HARVEST TIME
Navel Orange	Central/Southern CA	Sep/Nov.	75.0	2.5	Post February
	Central/Southern CA	Dec/Jan	37.5	1.25	Post February
	Central/Southern CA	Sep/Nov Fall Whitewash (Hydrated Lime)	112.5	3.8	Post February
Valencia Oranges	Central/Southern CA	Fruit Size 1/2" dia.min.	37.5	1.25	
Grapefruits (Summer Fruit Drop)	Central/Southern CA	Fruit Size 3/4" dia.min	75.0	2.5	
Grapefruits (Winter Fruit Drop)	Central/Southern CA	Oct/Jan	75.0	2.5	
	Central/Southern CA	Fall Whitewash (Hydrated Lime)	112.5	3.8	
Tangelos	Central/Southern CA	Sep/Nov	75.0	2.5	
Lemons	Inland CA	Oct/Dec	56.25	1.9	

USE IN PESTICIDE OIL SPRAYS TO COUNTERACT LEAF AND FRUIT DROP CAUSED BY OIL SPRAYS. Use 2.2 ml of ALCO FRUIT FIX per gallon of spray oil. Use sufficient spray gallonage to insure good coverage.

INCREASING FRUIT SIZE

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

Variety	Fruit Size at Time of Spraying Inches in Diameter	Milliliters Per Acre	Fluid ounces Per Acre
NAVEL and VALENCIA ORANGES	3/16 to 1/4 inch	56	1.9
	1/4 to 1/2 "	75	2.5
	1/2 to 5/8 "	94	3.2
	5/8 to 3/4 "	112.5	3.8
GRAPEFRUIT	1/4 to 3/8 inch	56	1.9
	3/8 to 5/8 "	75	2.5
	5/8 to 3/4 "	94	3.2
	3/4 to 1 "	112.5	3.8

DIRECTIONS FOR PACKING HOUSE USE

- To keep buttons alive and healthy, and therefore prevent Alternaria rot.
- 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.
- 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 recirculate the surplus or apply a very fine spray of growth regulator to the fruit and not recirculate 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.
- A 500 ppm concentration of 2,4-D is recommended. This is obtained by adding 1 5/8 fluid ounces (48 ml) of CITRUS FIX to each 10 gallons of water.

ADDITIONAL PRECAUTIONS

- Under certain circumstance 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.
- 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.
- 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. (145amd-c.pm5)06-25-97)