

PM122

5481-130

1/4/4



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

JUN 1 - 1994

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

H.R. McLane
AMVAC CHEMICAL CORP
4100 EAST WASHINGTON BLVE
LOS ANGELES, CA 90023

Subject: Label Amendment Submission of 04/18/94 in Response to PR Notice 93-7
EPA Reg. No. 5481-130
FRUIT FIX SUPER CONCENTRATE

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments reflected on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

WHAT THIS ACCEPTANCE MEANS:

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (WPS) labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have not been reviewed or accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

WHAT YOU NEED TO DO NEXT:

By the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling
- AND
- WITHIN one year from date of this acceptance.



Recycled/Recyclable
Printed with Soy/Canola Ink on paper that
contains at least 50% recycled fiber

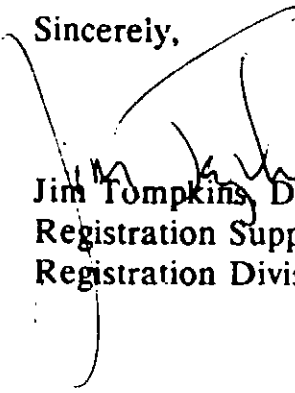
Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs (7505C)
U.S. Environmental Protection Agency
401 M Street, SW
Washington, D.C. 20460-0001

Hand or courier deliveries of final printed labeling may be made to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs
Room 266A, Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202

Sincerely,



Jim Tompkins, Deputy Chief
Registration Support Branch
Registration Division (7505W)

Attachment

H>R> McLane
AMVAC CHEMICAL CORPORATION.

Comments for: EPA REG. NO. 5481-130
FRUIT FIX SUPER CONCENTRATE

The following specific comments pertain to your WPS labeling submission concerning the product cited above:

NO PRODUCT SPECIFIC COMMENTS

FRUIT FIX CONCENTRATE 800

A HORMONE TYPE PRODUCT FOR
CONTROL OF PREHARVEST DROP
OF APPLES AND PEARS.
FOR THINNING OF OLIVES, ORNAMENTAL
OLIVES AND CERTAIN CITRUS.

ACTIVE INGREDIENT:

1-Naphthaleneacetic Acid, Ammonium Salt 21.40%

INERT INGREDIENTS: 78.60%

Total 100.00%

Equivalent to 19.6% 1-Naphthaleneacetic Acid or 800 grams (1.76 lbs.) per gallon.

KEEP OUT OF REACH OF CHILDREN

CAUTION

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed, inhaled or absorbed through the skin. Avoid contact with skin, eyes or clothing. In case of eye contact, immediately flush eyes with plenty of water. Get medical attention if irritation persists.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear: long-sleeved shirt and long pants; waterproof gloves and shoes plus socks. 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.

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

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 washwaters. Avoid drift of spray mist.

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.

See Side Panel For Additional Precautionary statements.

EPA Reg. No. 5481-130

EPA Est. No. 5481-CA-1

NET CONTENTS 1 GALLON

AMVAC CHEMICAL CORPORATION

4100 EAST WASHINGTON BLVD. - LOS ANGELES, CA 90023 U.S.A.

FOR USE ON APPLES AND PEARS

Spray trees thoroughly, wetting all fruit stems and adjacent leaves. Apply 7 to 14 days before harvest for apples and 5 to 7 days before harvest for pears. Do not spray within 2 days of harvest. This product becomes effective in 2 to 3 days after application and controls drop for 10 days to 4 weeks (less for McIntosh apple variety) depending on weather conditions. Do not make more than 2 applications and do not delay picking beyond optimum maturity.

GROUND SPRAY - FOR APPLES: thoroughly mix 3 fl. oz. with 250 gallons of water (1.2 fl. oz. in 100 gals. water) to prepare a 20 ppm spray. **FOR PEARS:** use a 10 ppm spray obtained by mixing 3 fl. oz. with 500 gals. of water. Drench the trees with the appropriate spray, using up to 670 gallons per acre of this 10 ppm spray, which provides an equivalent of 25 grams of 1-Naphthaleneacetic acid per acre. Apply to fruit 5 to 7 days before harvest. Do not make more than 2 applications. Do not apply within 2 days of harvest. (For an "oil-type" spray add 1 pint of flowable summer oil for each 100 gallons of spray solution).

AIRPLANE SPRAY - APPLES and PEARS: Mix 5-1/2 fl. oz. in 3 gallons of water and emulsify with 2 gallons of flowable summer oil by thorough agitation. Apply 5 gallons of emulsion per acre of APPLES. For PEARS, use 2-3/4 fl. oz. of this product in 5 gallons of emulsion per acre.

FOR THINNING OLIVE TREES

TIMING IS CRITICAL: Spray when young fruits are 1/8" to 3/16" in diameter, which is from 1-1/2 to 2-1/2 weeks following full bloom. Thinning is effective on all varieties except *Sevillano*. **WITHOUT OIL:** Apply a solution of 150 ppm 1-Naphthaleneacetic acid equivalent obtained by adding 9 fl. oz. of this product and a wetting agent (e.g. "Dren") 14 to 16 oz. to 100 gallons of water. **WITH OIL:** Apply a solution of 100 ppm 1-Naphthaleneacetic acid equivalent obtained by mixing thoroughly 6 fl. oz. of this product with 100 gallons of water. Emulsify by agitation with 1-1/2 gallon of light or medium summer oil. Spray only the heavily loaded trees until the leaves are thoroughly wet. This will require 10 to 30 gallons per tree.

PRECAUTION: Unless you wish to remove all your fruit, do not apply during bloom.

TO PREVENT FRUITING OF ORNAMENTAL OLIVE TREES

For best result, apply when the olive trees are in full bloom but before fruit sets. When extended bloom occurs, spray between 1/2 to 3/4 bloom, with a second spraying 7 to 14 days later. Mix 6 fl. oz. FRUIT FIX CONCENTRATE 800 and a wetting agent (e.g. 12 oz. liquid detergent) to 80 gallons of water. Spray trees until leaves are thoroughly wet. **PRECAUTIONS:** Applications should not be made when temperatures are over 85°F. As leaf curl may occur, adjacent plants should be covered with polyethylene sheet while spraying and the cover left on until danger of dropping and spray mist has passed, to prevent possible injury to these plants.

FOR FRUIT THINNING ORANGES, TANGERINES, (Mandarins), TANGELOS AND TANGORS

Spray at the rate of 100 to 500 ppm (6 fl. oz. of this product per 100 gals. of water equals 100 ppm). The degree of thinning obtained with FRUIT FIX CONCENTRATE 800 is highly variable and temperature related. Severe over-thinning may result from application to trees during hot and dry conditions. Do not apply to "non-thrifty" trees. The grower must determine a suitable concentration and time of application for his cultivars and location. Concentrations in the 100 to 500 ppm range should be tried and applications made when the fruit are in an early stage of development (5 to 20 mm in diameter) and near the normal period of "June Drop" (In Florida the period of natural drop occurs in May.) Higher thinning activity should be expected during hot weather. Therefore lower concentrations should be used during hot weather (95°F. and higher) and higher concentrations should be used during cooler and wet weather (85°F. to 95°F.). The effectiveness of FRUIT FIX CONCENTRATE 800 diminishes rapidly below 85°F. The entire fruiting area of the tree should receive a thorough coverage of the spray solution.

- DO NOT APPLY MORE THAN 1 APPLICATION PER YEAR.
- DO NOT USE ON VARIETIES WHERE BOTH YOUNG FRUITS AND FRUIT CLOSE TO MATURITY ARE PRESENT ON THE TREE.
- DO NOT APPLY WITHIN 150 DAYS OF HARVEST.

BEST AVAILABLE COPY

BEST AVAILABLE COPY

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 24 hours. PPE required for 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, waterproof gloves and shoes plus socks.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. **STORAGE:** Store product in original container in a cool, (not in direct sunlight), dry, locked place, out of reach of children. Do not allow product to freeze. **PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **CONTAINER DISPOSAL:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities.

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.

FRUIT FIX CONCENTRATE 800 serves to control preharvest drop of apples and pears, leading to larger harvest and reducing losses from windfall and knockdown. FRUIT FIX CONCENTRATE 800 is also effective in thinning the crop of olive trees when an excessively heavy fruit set is expected. FRUIT FIX CONCENTRATE 800 may be used to prevent fruiting of ornamental olive trees. In addition, FRUIT FIX CONCENTRATE 800 may be used for fruit thinning of ORANGES, TANGERINES (Mandarin), TANGELOS AND TANGORS.

FOR THE FOLLOWING EMERGENCIES, PHONE 24 HOURS A DAY
TRANSPORTATION CHEMTREC - ACCEPTED - 1-800-424-9300
MEDICAL HAZARD INFORMATION SERVICES (MHIS) 1-800-428-5635; Ext 169

1133-WPS PMS (2-1-84)

In EPA Letter dated

JUN 1 1994

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

2981-130

BEST AVAILABLE COPY