

5481-129

1/9/2013

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U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Chemical Safety and Pollution Prevention
Office of Pesticide Programs
Registration Division (7504P)
1200 Pennsylvania Ave., N.W.
Washington, DC 20460

EPA Reg. Number:

Date of Issuance:

5481-129

JAN 9 - 2013

Term of Issuance:

Unconditional

Name of Pesticide Product:

**Fruit Fix™
Concentrate 200**

NOTICE OF PESTICIDE:

Registration

Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

**AMVAC Chemical Corporation
4695 MacArthur Court, Suite 1250
Newport Beach, CA 92660**

Mailed to:

**Kelly Rahn
Regulatory Product Manager**

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.

EPA received a label amendment request submitted by email on January 9, 2013. EPA grants this request under the authority of section 3(c)(5) of the Federal Insecticide, Fungicide and Rodenticide Act, as amended. With this accepted labeling, all requirements set forth in the Reregistration Eligibility Decision for 1-naphthalene acetic acid, ammonium salt have been satisfied. Therefore, EPA reregisters the product listed above. This action is taken under the authority of section 4(g)(2)(c) of the Federal Insecticide, Fungicide, and Rodenticide Act, as amended. Reregistration under this section does not eliminate the need for continual reassessment of pesticides. EPA may require submission of data at any time to maintain the registration of your product.

Page 1 of 2

Signature of Approving Official:

Date:

JAN 9 - 2013

**Tony Kish, Product Manager (22)
Fungicide Branch/Registration Division/OPP/OCSP (7504P)**

JAN 9 - 2013

Submit one (1) copy of final printed labeling. Amended labeling will supersede all previously accepted labels. A copy of your label stamped "Accepted" is enclosed for your records. Products shipped after 12 months from the date of this Notice or the next printing of your label, whichever occurs first, must bear the new revised label.

Regarding the Special Local Need registration associated with this parent product registration (CA950010), the Agency has no adverse comments regarding the revised labeling submitted September 18, 2012 in connection with registration under FIFRA section 24(c) and in response to the RED.

Please forward a copy of the revised SLN labeling to the appropriate State official(s) for their comment/approval. Any additional State-stipulated wording or limitations, including reference to applicable State Rules or Regulations or updates to them, must appear on the labeling. Please notify the Agency by e-mail to westin.robert@epa.gov when you actually do forward the revised SLN label(s) to the State(s). When submitting each label to the State, please request the State to forward a copy of the revised SLN label (including their additions, if any) to the Agency for official confirmation of their receipt and approval, since Agency approval of the State's notification is required to finalize the action.

The basic and alternate Confidential Statements of Formula (CSFs) dated 3/13/2012 submitted in connection with reregistration under the Federal Insecticide, Fungicide and Rodenticide Act as amended are acceptable. These CSFs supersede all CSFs previously accepted for this product.

If you have any questions or comments regarding this letter, please contact Robert Westin at (703) 305-5721 or via e-mail at westin.robert@epa.gov.

Enclosure:

- Label stamped "Accepted"
- PRB Label Review dated 5/16/2012
- Acute Toxicity Review DP366084 dated 6/26/2009
- Product Chemistry Review DP400319 dated 4/10/2012 (revised CSFs)
- Product Chemistry Review DP397495 dated 1/10/2012 (revised CSFs)
- Product Chemistry Review DP391544 dated 8/8/2011

ACCEPTED 3/8
JAN 9 - 2013'
 Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 5481-129

TM
FRUIT FIX
CONCENTRATE 200

**A HORMONE TYPE PRODUCT FOR CONTROL OF
 PRE-HARVEST DROP OF APPLES AND PEARS AND THINNING OF OLIVE TREES**

ACTIVE INGREDIENT:

1-Naphthaleneacetic Acid, Ammonium Salt* 5.68%

INERT INGREDIENTS:..... 94.32%

TOTAL: 100.00%

*Equivalent to 5.2% 1-Naphthaleneacetic Acid or 200 grams (0.44 lbs. 1-NAA) per gallon.

KEEP OUT OF REACH OF CHILDREN
CAUTION

FIRST AID	
If on skin or clothing:	<ul style="list-style-type: none"> • 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 inhaled:	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. • Call a poison control center or doctor for further treatment advice.
If swallowed:	<ul style="list-style-type: none"> • 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 a poison control center or doctor. • Do not give anything to an unconscious person.
If in eyes:	<ul style="list-style-type: none"> • 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	
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment.</p> <p>FOR THE FOLLOWING EMERGENCIES, PHONE 24 HOURS A DAY:</p> <p>For Medical Emergencies phone.....1-888-681-4251</p> <p>For Transportation Emergencies, including spill, leak or fire, phone:</p> <p>CHEMTREC.....1-800-424-9300</p> <p>For Product Use Information phone : AMVAC.....1-888-462-6822</p>	

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

4/8

EPA Reg. No. 5481-129
EPA Est. No. 5481-CA-1

Net Weight:
As Marked on Container



PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing. Harmful if inhaled. Do not breathe vapor or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

All mixers, loaders, applicators, flaggers, and other handlers must wear long-sleeved shirt and long pants, shoes and socks.

USER SAFETY REQUIREMENTS

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, 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/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing

ENVIRONMENTAL HAZARDS

Do not apply directly to water, or to areas where surface area is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

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.

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 (REI). 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 REI of **48 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
- Shoes plus socks
- chemical-resistant gloves made of any waterproof material
- Protective eye wear.

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) can influence pesticide drift. The applicator and grower must evaluate all factors and make appropriate adjustments when applying this product.

Wind speed restrictions:

Do not apply when wind speeds are greater than 10 mph at the application site.

For orchard airblast applications:

Sprays must be directed into the crop canopy.

Outward pointing nozzles should be turned off at row ends and when spraying outer rows.

For ground based applications and aerial applications, use only medium or coarser spray droplets (or nozzles) according to ASABE (S572) definition for standard nozzles.

Application Restrictions:

The minimum re-application interval should not be less than 5 days. For broadcast use, the maximum application rate is 32 fl oz (or 0.11lb 1-NAA acid equivalent) per acre of FRUITFIX CONCENTRATE 200 for all uses, except olive trees which may be treated up to 96 fl oz (0.33 lb 1-NAA acid equivalent) per application per acre.

For all crops, the maximum product use per year or per crop cycle is not to exceed 96 fl oz of FRUITFIX CONCENTRATE 200 (0.33 lb 1-NAA acid equivalent) per acre.

USE DIRECTIONS FOR APPLES AND PEARS

FRUIT FIX CONCENTRATE 200 serves to control pre-harvest drop of apples and pears, leading to larger harvest and reducing losses from windfall and knockdown. Spray trees thoroughly, wetting all fruit stems and adjacent leaves. Make applications approximately 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 variety) depending on weather conditions. Do not make more than 2 applications and do not delay picking beyond optimum maturity. Do not exceed 96 fl oz FRUITFIX CONCENTRATE 200 per acre per year or crop cycle.

Ground Application: FRUITFIX CONCENTRATE 200 can be applied through any conventional spraying equipment.

For Apples:

To prevent pre-harvest drop on apples, apply 8 to 32 fl oz per acre of FRUITFIX CONCENTRATE 200 in sufficient water to achieve good coverage. Adjust rates depending on variety, age and size of trees, ambient temperature and other environmental conditions. Improvement in fruit size and color may be expected in certain varieties. Up to 1.0 pint of a light summer oil may be added to each 100 gallons of spray mixture to improve coverage

For Pears:

To prevent pre-harvest drop on pears, apply 8 to 32 fl oz per acre of FRUITFIX CONCENTRATE 200 in sufficient water to achieve good coverage. Adjust rates depending on variety, age and size of trees, ambient temperature and other environmental conditions. Up to 1.0 pint of a light summer oil may be added to each 100 gallons of spray mixture to improve coverage.

Aerial Application

For apples and pears: To prevent pre-harvest drop on apples and pears, apply 8 to 32 fl oz of FRUITFIX CONCENTRATE 200 per acre diluted in 5 to 10 gallons of water. To ensure better coverage, up to 2 gallons of any light summer oil may be substituted for 2 gallons of water.

USE DIRECTIONS FOR THINNING OLIVE TREES

FRUIT FIX CONCENTRATE 200 is effective for thinning the fruit load of olive trees when an excessively heavy fruit set is observed . TIMING IS CRITICAL. Spray when young fruitlets are 1/8" to 3/16" in diameter, which is generally observed 10 to 18 days following full bloom. Thinning is effective on all varieties except *Sevillano*. Calibrate spray equipment to calculate desired spray volume per acre.

FRUITFIX CONCENTRATE 200 can be applied through any conventional spraying equipment.

Without Oil: Under normal conditions, a spray concentration of 150 ppm 1-NAA equivalent (obtained by adding 36 fl. oz. FRUITFIX CONCENTRATE 200 and any non-ionic wetting agent at recommended label rates to each 100 gallons of water) is adequate for thinning olives. Higher 1-NAA concentrations may be applied if needed. Adjust spray volume based on variety, age and size of trees, ambient temperature, planting density and other factors. Addition of a non-ionic wetting agent is important since it ensures uniform spray coverage.

With Oil: Prepare a spray mixture of 100-150 ppm 1-NAA equivalent obtained by mixing thoroughly 24 to 36 fl. oz. FRUITFIX CONCENTRATE 200 and 1 to 1.5 gallons of a light or medium grade summer oil in 100 gallons of water. Keep spray mixture agitated during spray operations. Spray trees which have exhibited excessive flowering and fruit set. Ensure thorough spray coverage. Since addition of oil aids thinning, a downward adjustment to 1-NAA concentrations may be needed to ensure optimal thinning. Adjust orchard spray volume based on variety, age and size of trees, ambient temperature, planting density and other factors.

PRECAUTION: Unless all fruit from the olive trees need to be removed, DO NOT treat with FRUITFIX CONCENTRATE 200 during the full bloom period.

Aerial Application:

For olives: For thinning, apply up to 96 fl oz of FRUITFIX CONCENTRATE 200 per acre in 5 to 10 gallons of water depending on level of thinning desired. Addition of a light summer oil is optional.

Do not exceed a total of 96 fl oz FRUITFIX CONCENTRATE 200 per acre per application or per year or crop cycle.

Use Directions for Olive Flower and Fruit Elimination Only:

For best results, FRUITFIX CONCENTRATE 200 should be applied when the olive trees are in full bloom and before fruit set has occurred. During periods of extended bloom, more than one spray will be

necessary to achieve total flower elimination. When extended bloom occurs, the first application should be made between 1/2 and 3/4 bloom with a second spray made 7 to 14 days later. If necessary, a third spray may be made 7 to 14 days after the second application. In desert or extremely dry areas, all fruit can be eliminated even after fruit has reached "pinhead" to "small shot" size. However, best results are obtained when olive trees are sprayed during full bloom and prior to fruit set.

Rates: Mix 4.0 fl oz of FRUITFIX CONCENTRATE 200 in 10 gallons of water. To ensure proper coverage add 1/2 to 1 fl oz of any suitable non-ionic wetting agent to each 10 gallons of spray mix.

ALL CROPS: Do not exceed 96.0 oz (0.33 lb 1-NAA equivalent) FRUITFIX CONCENTRATE 200 per acre per season.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage and disposal.

PESTICIDE 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: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

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.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW 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. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW 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.

Fruit Fix™ is a trademark of AMVAC Chemical Corporation.

AMVAC Chemical Corporation
4100 E. Washington Blvd.
Los Angeles, CA 90023 U.S.A.
1-888-462-6822

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