

5481-414

12/12/2011

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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: **5481-414**  
 Date of Issuance: **DEC 12 2011**

Term of Issuance:  
**Unconditional**

Name of Pesticide Product:  
**K-Salt™ Fruit Fix™  
 200**

**NOTICE OF PESTICIDE:**

- Registration
- Reregistration  
 (under FIFRA, as amended)

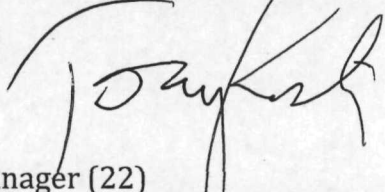
Name and Address of Registrant (include ZIP Code):  
**Amvac Chemical Corporation  
 4695 MacArthur Court, Suite 1250  
 Newport Beach, CA 92660**

Mailed to:  
 Kelly K. Naujock  
 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 September 9, 2011. 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 naphthalene acetic acid 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.

Signature of Approving Official:   
 Tony Kish, Product Manager (22)  
 Fungicide Branch/Registration Division/OPP/OCSP (7504P)

Date:  
**DEC 12 2011**

DEC 12 2011

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 registrations associated with this parent product registration (OR010002 label submitted 9/8/2011 and WA010004 label submitted 9/8/2011), the Agency has no adverse comments regarding the revised labeling submitted 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 Confidential Statement of Formula (CSF) dated 3/11/2011 submitted in connection with reregistration under the Federal Insecticide, Fungicide and Rodenticide Act as amended is acceptable. This CSF supersedes 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 8/11/2011
- Acute Toxicity Review DP366585 dated 7/15/2009
- Product Chemistry Review DP392383 dated 8/5/2011
- Product Chemistry Review DP388628 dated 4/15/2011
- Product Chemistry Review DP387650 dated 6/11/2010
- Product Chemistry Review DP367246 dated 11/16/2009



# K-SALT™ FRUIT FIX™ 200

A HORMONE TYPE PRODUCT FOR THINNING APPLES, CITRUS, OLIVES, PEARS  
AND FOR CONTROL OF PRE-HARVEST DROP OF APPLES AND PEARS

**ACTIVE INGREDIENT:**

1-Naphthaleneacetic Acid, Potassium Salt ..... 6.25%

**INERT INGREDIENTS:**..... 93.75%

**TOTAL:** ..... 100.00%

Equivalent to 5.18% 1-Naphthaleneacetic Acid or 200 grams (0.44 lbs.) per gallon.

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

FIRST AID	
<b>If on skin or clothing:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If in eyes:</b>	<ul style="list-style-type: none"> <li>• 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.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If swallowed:</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If inhaled:</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>

**EMERGENCY INFORMATION**

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

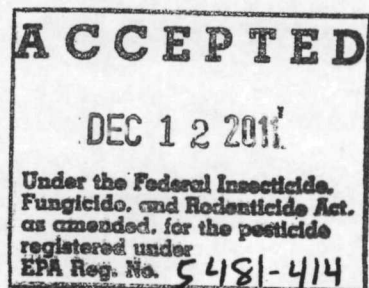
FOR THE FOLLOWING EMERGENCIES, PHONE 24 HOURS A DAY:

Transportation: CHEMTREC.....1-800-424-9300

Other: AMVAC.....1-323-264-3910

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

EPA Reg. No. 5481-414  
EPA Est. No. 5481-CA-1



Net Weight:  
As Marked on Container



4100 E. Washington Blvd.

Los Angeles, CA 90023 U.S.A

1-323-264-3910 • www.amvac-chemical.com

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION:** Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Some materials that are chemical-resistant to this product are made of any waterproof material. If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart.

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

- Long-sleeved shirt and long pants,
- Shoes plus socks, and
- Chemical-resistant gloves (except for pilots).

Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

**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. Wash outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**ENVIRONMENTAL HAZARDS**

Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not contaminate irrigation ditches or water used for irrigation or domestic

purposes. Do not apply when conditions favor drift from treated areas. Do not use in a greenhouse.

**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 persons 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.

K-SALT FRUIT FIX 200 thins the fruit of apples, pears and certain varieties of citrus and olives to provide an adequate return bloom the following season. K-SALT FRUIT FIX 200 controls pre-harvest drop of apples and pears leading to a larger harvest and a reduction of losses from windfall and knockdown.

**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 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
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks
- Protective eyewear

K-SALT FRUIT FIX 200 is an auxin-type hormone product for use in fruit production. The response of fruit trees to application may be varied in different years. In reviewing the results, the grower needs to consider the wide variation in varieties, climatic factors, dosage, tree vigor, and fruit set before choosing the desired rate and correct timing for application.

Apply in sufficient water for good even coverage with your specific equipment. Application can be made in as little as 50 gallons of water per acre and up to 400 gallons of water per acre and is highly dependent on type of equipment used and density of the foliage. Uniform and even distribution of the spray is imperative. For rates and application timing for your specific variety and location, consult your local Extension Pomologist or specialist for recommendations.

A variety of factors including weather conditions (e.g. wind directions, wind speed, temperature, relative humidity) and methods 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.

Specific language for orchard airblast:

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.

For broadcast use, the maximum application rate is 0.11 pounds active ingredient per acre of NAA equivalent for all uses, except olive trees which may use up to 0.33 pounds active ingredient per acre of NAA equivalent.

The maximum application rate per year or crop cycle is not to exceed 0.33 pounds active ingredient per acre of NAA equivalent.

The minimum interval between applications is to be no less than 5 days.

### **K-SALT FRUIT FIX 200 COMPATIBILITY WITH OTHER PRODUCTS**

K-SALT FRUIT FIX 200 is compatible with a wide range of pesticides. The mixture should be field tested on a small scale to insure the product performance and plant safety before large-scale field use. Observe all cautions and limitations on labeling of all products used in mixtures. DO NOT APPLY TANK MIX COMBINATIONS UNLESS YOUR PREVIOUS EXPERIENCE INDICATES THE MIXTURE IS EFFECTIVE AND WILL NOT RESULT IN APPLICATION PROBLEMS OR PLANT INJURY.

### **CHEMICAL THINNING**

#### **Apples**

Because of differences in varieties, climatic factors, tree vigor and fruit set, the application rate for thinning can range from 2 to 20 ppm and application timing can range from petal fall to 30 days after full bloom (2.4 fl. oz. of K-SALT FRUIT FIX 200 in 100 gallons of water will make 10 ppm spray). The higher concentrations should be limited to vigorous trees with high fruit set potential. Use the lower concentrations for weaker, less vigorous trees and less food reserves and lower fruit set potential. Use 2 to 5 ppm when a surfactant (wetting agent) is added. Use surfactant (wetting agent) according to manufacturer's recommendations, but not more than 1 pint per 100 gallons of spray. Mid-season to late blooming varieties such as Red Delicious, Golden Delicious, Fuji, Gala, Granny Smith and Rome should be treated 5 to 21 days after full bloom depending on locality and other factors. For concentrate spray, use K-SALT FRUIT FIX 200 at the rate of 2.0 to 4.0 fl. oz. per acre. Application in sufficient water for uniform and even distribution of the spray is imperative.

Thinning sprays are most effective when the king apple fruitlets are between 5 to 10 mm in diameter. During cool springs, delay application as necessary until the largest fruits are 7 mm to 10 mm in diameter and forecasted daytime temperatures are likely to rise above 60°F within the next five days. The preferred application temperature is between 70°F and 75°F. Applications are not recommended below 60°F or above 80°F. When daytime temperatures exceed 85°F, over-thinning may occur. Good thinning can be obtained under the latter conditions with lower rates of chemicals.

Tank mix combinations of K-SALT FRUIT FIX 200 and Carbaryl (e.g. Sevin® 4F & Sevin® XLR Plus) have successfully thinned several early-maturing, heavy-setting varieties as well as hard-to-thin apple varieties in accordance with the most restrictive of label limitations and precautions. Also a petal fall application of K-SALT FRUIT FIX 200 followed 7 to 10 days later by an application of K-SALT FRUIT FIX 200 + Carbaryl has improved thinning on hard-to-thin varieties such as Golden Delicious, Fuji, Gala, and Rhode Island Greening. No label dosage rates

should be exceeded. This product can not be mixed with any product containing a label prohibition against such mixing.

**IMPORTANT:** K-SALT FRUIT FIX 200 should not be used on early season varieties (those that ripen before MacIntosh) such as Yellow Transparent, Early Williams Red and Oldenburg since severe injury or over-thinning may occur. Amid-Thin®W is recommended for these early season varieties.

**Pears - Bartlett, Bosc and Comice**

Apply K-SALT FRUIT FIX 200 at a spray concentration of between 10 to 15 ppm for dilute spray in up to 400 gallons of water per acre or at a rate of 8 to 12 fl. oz. of product (13 to 19 gms of active ingredient) per acre for concentrated spray (2.4 fl. oz. of K-SALT FRUIT FIX 200 in 100 gallons makes 10 ppm of spray solution). Apply K-SALT FRUIT FIX 200 once per year 15 to 28 days after full bloom with a surfactant (wetting agent). Apply in sufficient water for good, uniform and even distribution of the spray. K-SALT FRUIT FIX 200 may not adequately thin Bartlett pears in some seasons. The preferred application temperature is between 70°F and 75°F. Application is not recommended below 60°F or above 80°F.

**Olives**

**TIMING IS CRITICAL!** Spray when young fruits are 1/8 to 3/16 inch in diameter or 12 to 18 days after full bloom. Thinning is effective on all varieties except Sevillano. Do not apply during bloom unless you wish to remove all your fruit. Apply a solution of 120 ppm by adding 28.8 fl. oz. of K-SALT FRUIT FIX 200 and a wetting agent (i.e. Dreft 14 to 16 oz.) to 100 gallons of water 12 days after full bloom. The spray concentration should be adjusted upward by 10 ppm for each day following full bloom during the thinning period. Severe over-thinning may result from application to trees during hot and dry conditions. Do not exceed 96 fl.oz. per acre per treatment or per season.

**FOR FRUIT ELIMINATION ON NON BEARING ORANGES, TANGERINES (MANDARINS), TANGELOS AND TANGORS ELIMINATION OF SMALL FRUIT ON TREES (YOUNGER THAN 3-4 YEARS) HELPS WITH BETTER VEGETATIVE GROWTH AND TREE VIGOR**

Spray at the rate of 500 ppm (120 fl. oz. of this product per 500 gallons). 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 exceed 32 fl.oz. per acre or 96 fl.oz. per season.

**CONTROLS PRE-HARVEST DROP - APPLES AND PEARS**

**Apples**

Apply to apples 7 to 14 days prior to harvest. Separate sprays should be applied to early and late maturing varieties. Do not make more than two applications and do not delay picking beyond optimum maturity. Do not spray within two days of harvest. K-SALT FRUIT FIX 200 becomes effective in 3 to 4 days after application and controls drop for two weeks.

**Ground Application:** Use 16 to 32 fl. oz. of K-SALT FRUIT FIX 200 (25 to 50 grams of active ingredient) per acre in sufficient water to ensure good coverage. Under normal conditions, the 32 fl. oz. rate per acre should be used.



**Aerial Application:** Use 16 to 32 fl. oz. in at least 5 gallons of water per acre. Aircraft should utilize spray equipment which gives thorough coverage to all portions of the trees. Apply only when weather conditions favor minimal spray drift. Use lower rates for normal foliage and fruiting and higher rates for dense foliage and heavy fruiting. Do not apply within two days of harvest.

**Bartlett, Bosc, and D'Anjou Pears**

Apply to pears 5 to 7 days prior to harvest. Separate sprays should be applied to early and late maturing varieties. Do not make more than two applications and do not delay picking beyond optimum maturity. K-SALT FRUIT FIX 200 becomes effective in 3 to 4 days after application and controls drop for two weeks. Do not apply within two days of harvest.

**Ground Application:** Use 8 to 16 fl. oz. of K-SALT FRUIT FIX 200 (12.5 grams to 25 grams of active ingredient) per acre in sufficient water to ensure good coverage. Under normal conditions the 16 fl. oz. rate per acre should be used. When Bartlett and Bosc are interplanted, spray only once per season. Use a maximum of 16 fl. oz. of product per acre per season on Bartlett to prevent premature ripening.

**Aerial Application:** Use 8 to 16 fl. oz. in at least 5 gallons of water per acre. Aircraft should utilize spray equipment which gives thorough coverage to all portions of the trees. Apply only when weather conditions favor minimal spray drift. Use lower rates for normal foliage and fruiting and higher rates for dense foliage and heavy fruiting. Do not apply within two days of harvest.

**PRESERVING ORNAMENTAL HOLLY BOUGHS**

To delay leaf drop of holly boughs, make a "dip solution" containing 8 to 16 fl. oz. in 100 gallons of water (equal to 33 to 66 ppm). Dip holly boughs as soon as possible after cutting. Allow excess solution to drain. Do not soak or leave boughs in dip solution. Replenish dip solution as needed. To maintain concentration, replace with fresh solution every 3 to 4 days. Package while moist to keep boughs fresh until used. Maintain a 34°F to 40°F temperature in bough storage area.

**STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or 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. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. 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. Then offer for recycling or reconditioning if available, or puncture and dispose of in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

**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.**

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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.

Amid-Thin® is a registered trademark of Amvac Chemical Corporation

K-SALT™ is a trademark of Amvac Chemical Corporation.

FRUIT FIX™ is a trademark of Amvac Chemical Corporation.

Sevin® is a registered trademark of Rhone-Poulenc.

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