



PM-22

Reg # 5481-413

7/10/97

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

JUL 10 1997

OFFICE OF
PESTICIDES AND TOXIC
SUBSTANCES

Amvac Chemical Corporation
c/o H.R. McLane, Inc.
7210 Red Road, Suite 206
Miami, FL 33143-5321

Mr. McLane:

Subject: Amendments - Revised Labeling

- * K-Salt Fruit Fix 200
EPA Reg. No. 5481-414
- * K-Salt Fruit Fix 800
EPA Reg. No. 5481-413
- * Your letters dated April 18, 1997 and amendments
dated May 27, 1997 and June 26, 1997.

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, is acceptable subject to the conditions indicated below. A stamped copy of each label is enclosed for your records. Please submit five (5) copies of your final printed labeling before you release the product for shipment.

1. In the instructions for "preharvest drop of apples", the pre-harvest interval for pears should be deleted.

If you have any questions regarding this letter, do not hesitate to call me at 703-305-7740 or María I. Rodríguez of my staff at 703-305-6710.

Sincerely,

LS/
Cynthia Giles-Parker
Team Leader #22
Fungicide Branch
Registrat.on Division (7505C)

Enclosures



Printed on Recycled Paper

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 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, waterproof gloves, shoes plus socks and protective eyewear.

K-Salt Fruit Fix 800 is an abscisic acid hormone type 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 for recommendations.

**APPLES AND PEARS
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 (0.6 fl. oz. of K-Salt Fruit Fix 800 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 800 at the rate of 0.5 fl. oz. to 1.0 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 mm to 10 mm in diameter. During cool springs, delay application as necessary until the largest fruits are 7 - 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 800 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 800 followed 7-10 days later by an application of K-Salt Fruit Fix 800 + 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 800 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 overthinning may occur. Amid-Thin® W is recommended for these early season varieties.

**Chemical Thinning - Pears
Bartlett, Bosc and Comice**

Apply K-Salt Fruit Fix 800 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 2-3 fl. oz. of product (13 grams to 19 grams of active ingredient) per acre for concentrated spray (0.6 fl. oz. of K-Salt Fruit Fix 800 in 100 gals. makes 10 ppm of spray solution). Apply K-Salt Fruit Fix 800 once per year 15-28 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 800 may not adequately thin Bartlett some seasons. The preferred application temperature is between 70° F and 75° F. Application is not recommended below 60° F or above 80° F.

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

**K-SALT™
FRUIT FIX 800**

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

ACTIVE INGREDIENT:
1-Naphthalene Acetic Acid, Potassium Salt - - - 24.20%
INERT INGREDIENTS: - - - 75.80%

Equivalent to 20.2% 1-Naphthaleneacetic Acid or 800 grams (1.76 lbs.) per gallon.

**KEEP OUT OF REACH OF CHILDREN
WARNING - AVISO**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

STATEMENTS OF PRACTICAL TREATMENT
IF IN EYES - Immediately flush eyes with plenty of water. Get medical attention if irritation persists. **IF SWALLOWED** - Call a physician or Poison Control Center immediately. Induce vomiting by drinking 1 or 2 glasses of water and touching back of throat. Do not give anything by mouth to an unconscious or convulsing person. **IF ON SKIN** - Wash thoroughly with soap and water. **IF INHALED** - Remove to fresh air.

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

WARNING: Causes eye irritation. Do not get in eyes. Harmful if swallowed. Avoid breathing spray mist. Avoid contact with skin, eyes or clothing.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear: long-sleeved shirt and long pants, waterproof gloves, shoes plus socks and protective eyewear. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Follow manufacturer's instructions for cleaning and 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, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water by disposal of equipment washwaters. 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. K-Salt Fruit Fix 800 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 800 controls preharvest drop of apples and pears, leading to a larger harvest and a reduction of losses from windfall and knockdown. Do not apply this product through any type of irrigation system.

Amid-Thin® is a registered trademark of Amvac Chemical Corporation
So-Ind® is a registered trade mark of Rhone Poulenc

NET CONTENTS 1 GALLON
EPA Reg. No. 5481-413 EPA Est. No. 5481-CA-1
AMVAC CHEMICAL CORPORATION
4100 EAST WASHINGTON BLVD. - LOS ANGELES, CA 90023 - U.S.A.

CONTROLS PREHARVEST

Apply to apples 7 to 14 days prior to harvest and to be applied to early and late maturing varieties. Do not apply beyond optimum maturity. Do not spray within two to 4 days after application and controls drop for two. **Ground Application:** Use 4 to 8 fl. oz. of K-Salt per acre in sufficient water to ensure good coverage. **Aerial Application:** Use 4 to 8 fl. oz. in at least 5 gal which gives thorough coverage to all portions of the drift.

Use lower rates for normal foliage and fruiting, and within 2 days of harvest.

Bartlett, Bosc

Apply to pears 5 to 7 days prior to harvest. Separate. Do not make more than two (2) applications and do not become effective in 3 to 4 days after application. **Ground Application:** Use 2 to 4 fl. oz. of K-Salt per acre in sufficient water to ensure good coverage. **Aerial Application:** Use 2 to 4 fl. oz. in at least 5 gal which gives thorough coverage to all portions of the drift.

Use lower rates for normal foliage and fruiting; the within 2 days of harvest.

Chemical Thinning - Apples

Timing is Critical: Spray when young fruits are 1/8 to 1/4 is effective on all varieties except Seville. Do not Apply a solution of 120 ppm by adding 7.2 fl. oz. of K-Salt to 100 gallons of water 12 days after full bloom. The solution for each day following full bloom during the thinning to trees during hot and dry conditions.

ORANGES, TANGERINES

**Chemical Thinning - Oranges
Tangelos**

Spray at the rate of 100 to 500 ppm (6 fl. oz. per 100 gal with K-Salt Fruit Fix 800 is highly variable and temperate to trees during hot and dry conditions. Do not apply concentration and time of application for his cultivars. Concentrations in the 100 to 150 ppm ranges should be used at stage of development (5 - 20 mm in diameter) and natural drop occurs in May). Higher thinning activity concentrations should be used during hot weather. diminishes rapidly below 85° F. The entire fruiting area solution. Do not apply more than one (1) application close to maturity are present on trees. Do not apply to

ORNAMENTAL

For Use in Preserving

To delay leaf drop of Holly boughs, make a "dip solution" 33-66 ppm. Dip Holly boughs as soon as possible after boughs in dip solution. Replenish dip solution as needed solution every 3 to 4 days. Package while moist to keep in bough storage area.

K-SALT FRUIT FIX 800 COMPATIBLE

K-Salt Fruit Fix 800 is compatible with a wide range of pesticides to insure the product performance and plant safety before on labeling of all products used in mixtures. **DO NOT MIX WITH PREVIOUS EXPERIENCE INDICATES THE MIXTURES MAY CAUSE PROBLEMS OR PLANT INJURY.**

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Store in a cool, (not in direct sunlight), dry, locked place out of reach of children. **DISPOSAL:** Wastes resulting from the use of this product should be disposed of on a designated disposal facility. **CONTAINER DISPOSAL:** Triple rinse or puncture and dispose of in a sanitary landfill, or by incineration, if burned stay out of smoke. (413-AMD-PM5) (11/87) vers. 06-26-97

FOR THE FOLLOWING EMERGENCY TRANSPORTATION, CHEMTREC MEDICAL: HAZARD INFORMATION

W-1970

JUL 10 1997

K-SALT™ FRUIT FIX 800

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

ACTIVE INGREDIENT:
1-Naphthalene Acetic Acid, Potassium Salt - - - 24.20%
INERT INGREDIENTS: - - - - - 75.80%
Total 100.00%

Equivalent to 20.2% 1-Naphthaleneacetic Acid or 800 grams (1.76 lbs.) per gallon.

KEEP OUT OF REACH OF CHILDREN WARNING - AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

STATEMENTS OF PRACTICAL TREATMENT

IF IN EYES - Immediately flush eyes with plenty of water. Get medical attention if irritation persists. **IF SWALLOWED** - Call a physician or Poison Control Center immediately. Induce vomiting by drinking 1 or 2 glasses of water and touching back of throat. Do not give anything by mouth to an unconscious or convulsing person. **IF ON SKIN** - Wash thoroughly with soap and water. **IF INHALED** - Remove to fresh air.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING: Causes eye irritation. Do not get in eyes. Harmful if swallowed. Avoid breathing spray mist. Avoid contact with skin, eyes or clothing.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear: long-sleeved shirt and long pants, waterproof gloves, shoes plus socks and protective eyewear. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Follow manufacturer's instructions for cleaning and 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, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water by disposal of equipment washwaters. 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 persons who are trained or experienced in the proper use of pesticides may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation. K-Salt Fruit Fix 800 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 800 controls preharvest drop of apples and pears, leading to a larger harvest and a reduction of losses from windfall and knockdown. Do not apply this product through any type of irrigation system.

Amvac Chemical Corporation is a registered trademark of Amvac Chemical Corporation
Sevin® is a registered trademark of Rhone Poulenc

NET CONTENTS 1 GALLON

EPA Reg. No. 5481-413 EPA Est. No. 5481-CA-1

AMVAC CHEMICAL CORPORATION

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

CONTROLS PREHARVEST DROP - APPLES AND PEARS

Apples → delete

Apply to apples 7 to 14 days prior to harvest and to pears 6 to 7 days prior to harvest. Separate sprays should be applied to early and late maturing varieties. Do not make more than two (2) applications and do not delay picking beyond optimum maturity. Do not spray within two (2) days of harvest. K-Salt Fruit Fix 800 becomes effective in 3 to 4 days after application and controls drop for two (2) weeks.

Ground Application: Use 4 to 8 fl. oz. of K-Salt Fruit Fix 800 (25 grams to 50 grams of active ingredient) per acre in sufficient water to ensure good coverage. Under normal conditions the 8 fl. oz. rate per acre should be used. **Aerial Application:** Use 4 to 8 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 2 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 (2) applications and do not delay picking beyond optimum maturity. K-Salt Fruit Fix 800 becomes effective in 3 to 4 days after application and controls drop for two (2) weeks. Do not apply within 2 days of harvest.

Ground Application: Use 2 to 4 fl. oz. of K-Salt Fruit Fix 800 (12.5 grams to 25 grams of active ingredient) per acre in sufficient water to ensure good coverage. Under normal conditions the 4 fl. oz. rate per acre should be used. When Bartlett and Bosc are interplanted spray only once per season. Use a maximum of 4 fl. oz. of product per acre per season on Bartlett to prevent pre-mature ripening.

Aerial Application: Use 2 to 4 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; the higher rates for dense foliage and heavy fruiting. Do not apply within 2 days of harvest.

OLIVES

Chemical Thinning - 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 7.2 fl. oz. of K-Salt Fruit Fix 800 and a wetting agent (i.e. Drest 14 to 16 oz.) to 100 gallons of water 12 days after full bloom. The spray concentration should be adjusted upward by 10 parts per million for each day following full bloom during the thinning period. Severe overthinning may result from application to trees during hot and dry conditions.

ORANGES, TANGERINES, TANGELOS AND TANGORS Chemical Thinning - Oranges, Tangerines(Mandarins), Tangelos and Tangors

Spray at the rate of 100 to 500 ppm (6 fl. oz. per 100 gals. water equals 100 ppm). The degree of thinning obtained with K-Salt Fruit Fix 800 is highly variable and temperature related. Severe overthinning may result from application to trees during hot arid 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 150 ppm ranges should be tried and applications made when the fruits are in an early stage of development (5 - 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 (85° F to 95° F). The effectiveness of K-Salt Fruit Fix 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 one (1) application per year. Do not use on varieties where both young and fruits close to maturity are present on trees. Do not apply within 150 days of harvest.

ORNAMENTAL HOLLY BOUGHS

For Use in Preserving Ornamental Holly Boughs

To delay leaf drop of Holly boughs, make a "dip solution" containing 2 to 4 fl. oz. in 100 gallons of water (equivalent to 33-66 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. However, 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.

K-SALT FRUIT FIX 800 COMPATIBILITY WITH OTHER PRODUCTS

K-Salt Fruit Fix 800 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.

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 incineration, or, if allowed by State and local authorities, by burning. If burned stay out of smoke. (413-AMC-PMS12-18-96) EPA 01-13-97 corr'd vers. 104-18-97) EPA corr'd vers. 06-26-97)

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

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