

Reg # 5481-413

PM-22

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

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

H. R. McLeand
AMVAC CHEMICAL CORP.
4100 East Washington Blvd.
Los Angeles, CA 90023

Subject: Label Amendment Submission of 11/02/93 in Response to PR Notice 93-7
EPA Reg. No. 5481-413
K-SALT FRUIT FIX 800

IMPORTANT NOTICE: This Letter Requires You to Submit a Notification to the Office of Compliance Monitoring within 20 Days.

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 listed on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

SERIOUS ERROR(S) ON SUBMITTED LABELING:

EPA has determined that one or more of the errors on the labeling you submitted to the Agency is categorized as "serious" as defined in PR Notice 93-11. In general, serious errors are those that may create a potential for harm to workers, handlers, other persons, or the environment; or those that prevent the achievement of the basic goals of the Worker Protection Standard (WPS) or FIFRA.

YOU MUST NOT SELL OR DISTRIBUTE (INCLUDING RELEASE FOR SHIPMENT) ANY PRODUCT BEARING THE SUBMITTED LABELING. Sale or distribution of any product with the incorrect labeling is a violation of FIFRA that could result in initiation of an action for civil penalties and/or cancellation of your product. This matter has been referred to the Office of Compliance Monitoring (OCM) for further action.

YOU MUST SUBMIT A NOTIFICATION TO THE OFFICE OF COMPLIANCE MONITORING WITHIN 20 DAYS OF THE DATE OF THIS LETTER.



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Each notification must include the following information:

1. Registrant's name and address.
2. EPA Registration number of the product for which the labeling was submitted.
3. Whether any product already has been sold or distributed (this includes released for shipment) bearing the submitted labeling.

In addition, the notification must include the following information, IF you have already sold or distributed any product bearing the submitted labeling:

1. Quantity of the product that has been sold or distributed.
2. EPA Producing Establishment number.
3. Location of the product, if known.
4. Proposed plan for assuring that product with the incorrect labeling in your control, as well as that in the hands of dealers/distributors/users, will be corrected. The plan must include your proposal for assuring that the labeling is corrected as soon as possible.

Submit the notification to:

Michael Wood, Director
Compliance Division, (7203)
Worker Protection Notification
Office of Compliance Monitoring
U.S. Environmental Protection Agency
401 M Street SW
Washington, DC 20460

Failure to submit a notification also may result in initiation of an action under FIFRA for civil penalties, if you sold or distributed (this includes released for shipment) product bearing the incorrect labeling.

IN ADDITION, YOU SHOULD CONTACT IMMEDIATELY THE PERSONS TO WHOM YOU SOLD OR DISTRIBUTED YOUR PRODUCT AND INFORM THEM NOT TO SELL OR DISTRIBUTE ANY PRODUCT WITH THE INCORRECT LABELING.

WHAT THIS ACCEPTANCE MEANS:

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the 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 neither been reviewed nor 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:

Submit the required notification. Then 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 as amended

AND

- WITHIN one year from date of this acceptance.

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

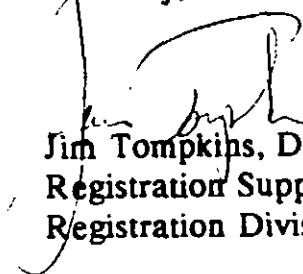
Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs (7505C)
U.S. Environmental Protection Agency
401 M Street, SW
Washington, D.C. 20460-0001

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Hand or courier deliveries of final 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

cc: Office of Compliance Monitoring

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division

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

Comment for: EPA Reg Nr.5481-413
K-SALT FRUIT FIX 800

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

The requirement under the heading "Personal Protective Equipment" must state: "Applicators and other handlers must wear:". Cross out your lead-in statement and replace it with correct one. EXCEPTION: If you have an entirely separate PPE section specifying what "Mixers and loaders must wear", the requirement under the heading "Personal Protective Equipment" must state: "Applicators and other handlers (other than mixers and loaders) must wear:". Cross out your lead-in statement and replace it with the correct one.

The bodywear requirement for "applicators and other handlers" in the "Personal Protective Equipment" section on your proposed labeling is missing or incorrect. Remove the incorrect requirement (if any) and add "Long-sleeved shirt and long pants." The exact location is shown in Sections A and B on Part I of the Product Worksheet in Supplement Three-A to PR Notice 93-7.

Insert the following statement above the Agricultural Use Requirements box: "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." The exact location is shown in Section F on Part 2 of the Product Worksheet in Supplement Three-A to PR Notice 93-7.

You have incorrect wording in the second-to-last sentence in the first paragraph in the Agricultural Use Requirements box on your proposed label. The sentence must be as follows: "It also contains specific instructions and exceptions

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K-SALT FRUIT FIX 800
Application date: 11/02/93
Original Submission

pertaining to the statements on this label about personal protective equipment (PPE), notification to workers and restricted-entry interval."

The correct restricted entry interval (REI) for this product is 24 hours. Your REI statement must read: "Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours." The exact location is shown in Section F on Part 2 of the Product Worksheet in Supplement Three-A to PR Notice 93-7.

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CONTROLS PREHARVEST DROP - APPLES AND PEARS
 Spray trees thoroughly, wetting all fruit stems and adjacent leaves. K-SALT FRUIT FIX 800 becomes effective in 3 to 4 days after application and controls drop for two (2) weeks. Separate sprays should be applied to early and late maturing varieties. Do not make more than 2 applications and do not delay picking beyond optimum maturity. Do not spray within 2 days of harvest.

FOR DILUTE OR CONCENTRATE SPRAYING WITH GROUND EQUIPMENT

Crop	Dilute		Concentrate		Remarks
	Spray Conc. (ppm active ingredient)	K-Salt 800 per 100 Gals.	K-Salt 800 per acre		
Apples*	5-10 ppm (Eastern U.S.) 15-20 ppm (Pacific N.W.)	0.3-0.6 fl.oz.	4.0-5.6 fl. oz.	Apply to fruit 7 to 14 days before harvest.	
		0.9-1.2 fl.oz.	4.0-5.6 fl.oz.		
Pears (D'Anjou, Bosc and Bartlett)	10-15 ppm	0.6-0.9 fl.oz.	2.0-4.0 fl.oz.	Apply to fruit 5 to 7 days before harvest.	

*For apples, variety and climatic conditions will affect the actual rate required.

SPRAY PREPARATION CHART FOR DILUTE SPRAY
 AMOUNT OF K-SALT FRUIT FIX 800 IN FLUID OUNCES

Conc./ppm	Gallons/Acre	100	200	300	400
2		0.12 fl.oz.	0.24 fl.oz.	0.36 fl.oz.	0.48 fl.oz.
5		0.30 "	0.60 "	0.90 "	1.20 "
7.5		0.45 "	0.90 "	1.35 "	1.80 "
10		0.60 "	1.20 "	1.80 "	2.40 "
15		0.90 "	1.80 "	2.70 "	3.60 "
20		1.20 "	2.40 "	3.60 "	4.80 "

AERIAL APPLICATION

Aircraft should utilize spray equipment which gives thorough spray coverage to all portions of trees. Apply only when weather conditions favoring minimal spray drift. Use lower rates for normal foliage and fruiting; the higher rates for dense foliage and heavy fruiting.

APPLES and D'ANJOU PEARS: Use 1/4 to 1/2 pint (4 to 8 fluid ounces) in at least 5 gallons of water per acre. Do not apply within 2 days of harvest.

BARTLETT AND BOSCH PEARS: Use 1/8 to 1/4 pint (2 to 4 fluid ounces) in at least 5 gallons of water per acre. Do not apply within 2 day of harvest. When Bartlett and Bosc are interplanted, spray only once. Use a maximum of 1/4 pint per acre on Bartlett to prevent pre-mature ripening.

FOR USE IN PRESERVING ORNAMENTAL HOLLY BOUGHS

To delay leaf drop of Holly boughs, make a "dip" solution containing 1/4 to 1/2 cup (2 to 4 fluid ounces) in 100 gallons of water (equals 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. 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 to 40 degree temperature in bough storage area.

Do not mix or apply K-Salt Fruit Fix 800 with any other pesticide, additive, or fertilizer except as specifically recommended on this labeling.

FOR RATES AND APPLICATION TIMING FOR YOUR SPECIFIC VARIETY AND LOCATION, CONSULT YOUR LOCAL EXTENSION POMOLOGIST FOR RECOMMENDATIONS.

K-SALTTM 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 (other than mixers and loaders) must wear coveralls, 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 manufacturers 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 manner inconsistent with its labeling. Do not apply this product through any type of irrigation system. 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 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). 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, waterproof gloves, shoes plus socks and protective eyewear.

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

APPLES AND PEARS
 K-SALT FRUIT FIX 800 becomes
 effective in 2 weeks. Separate sprays should
 be made 2 applications and do not delay
 of harvest.

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.

TE SPRAYING MENT

Concentration	Remarks
800 per acre	
0.6 fl. oz.	Apply to fruit 7 to 14 days before harvest.
0.6 fl. oz.	Apply to fruit 5 to 7 days before harvest.

Adjust the actual rate required.

OR DILUTE SPRAY FLUID OUNCES

300	400
0.36 fl. oz.	0.48 fl. oz.
0.90 "	1.20 "
1.35 "	1.80 "
1.80 "	2.40 "
2.70 "	3.60 "
3.60 "	4.80 "

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Spray coverage to all portions of trees.
 Use lower rates for normal foliage
 drop.

0.8 fluid ounces) in at least 5
 gallons of water.

0.4 fluid ounces) in at least 5 gallons
 of water. Bartlett and Bosc are interplanted, spray
 prevent pre-mature ripening

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0.5 fluid ounces) in at least 5 gallons of water.
 containing 1/4 to 1/2 cup (2 to 4
 oz.) of water. Dip Holly boughs as soon as
 they are available. Do not soak or leave boughs in dip
 solution. Concentration replace with
 clean water. Keep boughs fresh until used.
 Do not use in a greenhouse.

Do not use as a pesticide, additive, or fertilizer except
 as directed.

Specific variety and location,
 and recommendations

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

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 crush in a sanitary landfill, or incineration, or, if allowed by
 State and local authorities, by burning. If burned stay out of smoke.

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 25 days after full bloom. 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 recommen-
 dations, but not more than 1 pint per 100 gallons of spray. Midseason to late blooming varieties such as Red
 Delicious, Golden Delicious and Rome should be treated 5 to 21 days after full bloom depending on locality
 and other factors.

During cool springs, delay application as necessary until the largest fruits are 10-15 mm in diameter and
 forecasted daytime temperatures are likely to rise above 50°F within the next five days. The preferred
 application temperature is between 70°F and 75°F. Application is not recommended below 60°F or above 80°F.
 When daytime temperatures exceed 90°F overthinning may occur. Good thinning can be obtained under the
 latter conditions with lower rates of chemicals.

IMPORTANT: K-Salt Fruit Fix 800 should not be used on early season varieties (those that ripen before
 McIntosh) such as Yellow Transparent, Early Williams Red and Odenburg, since severe injury or over-thinning
 may occur. Amid-Thin W[®] a registered trademark of Rhone Poulenc used under license by AMVAC Chemical
 Corp. is recommended for these early season varieties.

CHEMICAL THINNING - PEARS

Variety	Spray Concentration ppm Active Ingredient (Plus Surfactant)	Am't. K-Salt 800 per 100 Gallons
Bartlett, Bosc and Comice	10-15 ppm	0.6 to 0.9 fl. oz.

Federal Insecticide,
 Fungicide and Rodenticide Act
 registered under EPA Reg. No.
 5481-413

Apply K-Salt Fruit Fix 800 once per year 15-28 days after full bloom with a surfactant (wetting agent). 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.

For thinning of apples and pears, do not use K-Salt Fruit Fix 800 in concentrate sprays or by aerial application.
 Use in dilute sprays. Do not use K-Salt Fruit Fix 800 on young trees less than ten years old, or trees with light
 bloom.

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. and a wetting agent (i.e. Dref 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.

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 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 150 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 degrees F and higher) and higher concentrations should
 be used during cooler and wet weather (85 degrees to 95 degrees) The effectiveness of K-Salt Fruit Fix 800
 diminishes rapidly below 85 degrees. 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 and fruits close to
 maturity are present on tree. Do not apply within 150 days of harvest.

NOTICE: This product conforms to its chemical description and is reasonably fit for the purpose stated on the
 label, when used in accordance with directions under normal conditions of use. Manufacturer is not responsible
 for the use of this product contrary to the label instructions, or under abnormal conditions, or under conditions
 not reasonably foreseeable to the manufacturer &/or seller and the buyer assumes the risk of any such use.
 (413-WPS PM4 / 11-01-93)

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