



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

May 8, 2015

Carla Hull  
Administrative Assistant  
Fair Products, Inc.  
P.O. Box 386  
Cary, NC 27512

Subject: Notification per PRN 98-10 – Deleting tank-mixing directions  
Product Name: FST-7  
EPA Registration Number: 51873-6  
Application Date: February 23, 2015  
Decision Number: 500671

Dear Ms. Hull:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The label submitted with the application has been stamped "Notification" and will be placed in our records.

If you have any questions, you may contact Aswathy Balan at 703-347-0510 or via email at [balan.aswathy@epa.gov](mailto:balan.aswathy@epa.gov).

Sincerely,

A handwritten signature in black ink, appearing to read "Shaja B. Joyner", is positioned above the typed name.

Shaja B. Joyner, Product Manager 20  
Fungicide and Herbicide Branch  
Registration Division (7505P)  
Office of Pesticide Programs

## NOTIFICATION

\*\*DRAFT\*\*

FST-7/Front panel-01

**\*\*PROPOSED CHANGES IN RED\*\***

51873-6

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

05/08/2015

# FST-7®

CONTACT AND SYSTEMIC TOBACCO SUCKER CONTROL AGENT

### KEEP OUT OF REACH OF CHILDREN DANGER- PELIGRO

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)

#### ACTIVE INGREDIENTS:

n-Decanol.....	38.3%
Potassium salt of 1,2-Dihydro-3,6-pyridazinedione*.....	11.1%
OTHER INGREDIENTS.....	50.6%
TOTAL.....	100.0%

*\*Hereafter called potassium salt of maleic hydrazide CAS No. 28382-15-2  
This product contains 0.66 lbs. maleic hydrazide (MH) equivalent per gallon.  
Weight of Active Ingredients = 4.0 lbs. per gallon*

### SHAKE WELL BEFORE USING

READ ENTIRE LABEL CAREFULLY BEFORE USING THIS PRODUCT.

**SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.**

If not used in accordance with directions, plant injury, or other undesirable results may occur.

Sold by:

**Fair Products, Inc., USA**

Agri-Specialties Division

Post Office Box 386

Cary, North Carolina 27512-0386

Telephone: (919) 467-8352

EPA EST. NO. 45671-NC-01

EPA REG. NO. 51873-6

06302011V-2015P

Net Contents:

3 Gallons (384 Fl Oz)

(11.355) Liters

FST-7/Left side panel

<b>FIRST AID</b> <b>FATTY ALCOHOLS (N-DECANOL)</b> <b>MALEIC HYDRAZIDE</b>	
If In Eyes	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• 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>
If On Skin or Clothing	<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>
If Swallowed	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor 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 the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person</li> </ul>
If Inhaled	<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 by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>Hot Line Number</b> <b>FATTY ALCOHOLS (N-DECANOL)</b> <b>MALEIC HYDRAZIDE</b>	
<b>NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage</b>	
Have the container or label with you when calling a poison control center or doctor or going for treatment. For emergency information on product call (919) 467-8352, Monday through Friday 9 am to 5 PM EST. After 5 PM call your poison control center or call the National Poison Control Hotline at 1-800-222-1222 for additional information.	

<b>PRECAUTIONARY STATEMENTS</b> <b>Hazards to Humans and Domestic Animals</b> <b>DANGER</b>
Corrosive. Causes irreversible eye damage. Harmful if absorbed through skin. Do not get in eyes, on skin or on clothing. Wear protective eyewear, (goggles or face shield). Harmful if inhaled. Avoid inhalation of 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 and before reuse.

## **USE PRECAUTIONS**

### **PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Some materials that are chemical-resistant to this product are made of barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl Chloride or viton. If you want more options, follow the instructions for **CATEGORY C** on an EPA chemical resistance category selection chart.

### **MIXERS, LOADERS, APPLICATORS AND OTHER HANDLERS MUST WEAR:**

- Goggles or face shield
- Long-sleeved shirt and long pants
- Shoes and socks
- Chemical resistant gloves made of any waterproof material

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. 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.

## **AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and 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 into 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:

- Goggles or face shield
- Coveralls
- Shoes and socks
- Chemical resistant gloves made of any waterproof material

## **USER SAFETY RECOMMENDATIONS**

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Users should 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 apply this product through any type of irrigation system. Do not contaminate water when disposing of equipment washwaters or rinsate.

### SURFACE WATER ADVISORY

Under some conditions, maleic hydrazide (MH) may have a significant potential for runoff into surface water (primarily via dissolution in runoff water), for several days post-application. Conditions favoring runoff include poorly draining soils or wet soils with readily visible slopes, frequently flooded areas, areas where an intense or sustained rainfall is forecast to occur within 48 hours, areas overlying extremely shallow ground water, and areas overlying tile drainage systems that flow to surface water.

### STORAGE AND DISPOSAL

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

1. **PESTICIDE STORAGE** - Do not stack over 2 pallets high. Store original containers in cool dry place away from food, water and feed.
2. **PESTICIDE DISPOSAL** - Pesticide wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.
3. **CONTAINER DISPOSAL** – Non-refillable containers. Do not reuse or refill this container. **For container sizes of 5 gallons or less**, triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and draining for 10 seconds after the flow begins to drip. Fill the container ¼ 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 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.

**For container sizes greater than 5 gallons**, triple rinse as follows: empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat the procedure two more times. Then offer for recycling 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.

### 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 persons, either directly or indirectly 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.

### **FST-7 FOR CONTROL OF TOBACCO SUCKERS. DIRECTIONS FOR USE.**

**Make sure the container of FST-7 is well mixed and shaken before measuring.**

FST-7 is a contact and systemic sucker control agent which with one application kills small suckers on contact with one-half to one hour after application and then works systematically on the tobacco plant to control cell subdivisions and the formation of new suckers. FST-7 is formulated exclusively for the control of tobacco suckers.

FST-7 can be applied by conventional spray mechanisms. Use a coarse spray and spray one or more rows at a time wetting only the upper 1/3 to 1/2 of the tobacco plant and allowing the liquid to run down the stalk to each plant, using only about twenty pounds of pressure. Plants that are leaning should be straightened so that the spray flows down the stalk evenly and contacts each sucker.

FST-7 should be applied during early morning after the dew dries, all day on cloudy days, avoiding late afternoon or night applications. Spraying during the bright noon day sun at atmospheric temperatures above 90°F should be avoided since injury to the top tender leaves may result.

Do not apply FST-7 when the wind velocity is high enough to turn the top leaves since injury may result from the application to the tender underside of the tobacco leaf. Do not apply during a rain or when the leaves are still wet or when rain is predicted during the period of 6 hours for absorption throughout the entire plant and rain within that period may reduce effectiveness. If applied during drought, the contact portion of the formulation continues to function normally but the systemic sucker control action may be reduced because of the diminished absorption capabilities of the tobacco plant under drought conditions.

### **FLUE CURED TOBACCO**

**Make sure the container of FST-7 is well mixed and shaken before measuring.**

Apply FST-7 after topping at early flower (one week after button), following application of an appropriate contact control agent (such as FAIR 85 or FAIR TAC) at the early button stage. Remove by hand all suckers which are over one inch long. The plants should be sprayed promptly. Add 3 gallons of FST-7 to 10-20 gallons of water and with the mixer running add more water to bring the volume up to a total of 50 gallons. Operate the sprayer at a speed of 2.5 to 3 miles per hour and spray 50 gallons of diluted emulsion per acre of tobacco. Use a coarse spray covering the top 1/3 to 1/2 of the plant and allow the liquid to run down the stalk to the bottom of each plant using only about 20 pounds of pressure.

### **BURLEY TOBACCO**

**Make sure the container of FST-7 is well mixed and shaken before measuring.**

Top the tobacco plants when they are about the full flower stage and remove by hand all suckers which are over one inch long. The plants should be sprayed promptly (within one day after topping). Add 3 gallons of FST-7 to 10-20 gallons of water and with the mixer running add more water to bring the volume to a total of 50 gallons. Operate the sprayer at a speed of 2.5 to 3 miles per hour and apply 50 gallons of diluted emulsion per acre of tobacco. Use a coarse spray covering the top 1/3 to 1/2 of the plant and allow the liquid to run down the stalk to the bottom of each plant using only about 20 pounds of pressure. For the compressed air shoulder sprayer use 23 ounces of FST-7 per 3 gallons of water and mix well before using. Apply at a rate of 3 gallons of diluted emulsion per 667 plants agitating the solution from time to time during spraying.

### **Special Directions for Burley Tobacco:**

Alternatively, to reduce maleic hydrazide (MH) residues and enhance sucker control apply FST-7 as soon as 10 to 25% of the plants have open flowers or whenever the majority of plants have 20 to 25 harvestable leaves (greater than 8 inches long and about 5 inches wide). This will result in MH application 7 to 14 days earlier than the normal application at full to late flower.

FST-7/Rear panel,p.1

## **~~Special Directions for Tank Mixing FST-7 plus Prime+~~**

### **FLUE-CURED TOBACCO**

#### **Application Sequence:**

~~Remove by hand all suckers which are over one inch long. Following an application of 2 gallons per acre of Fair 85 at the button stage and a second application of 2.5 gallons of FAIR 85 3 to 5 days later, apply 3 gallons of FST-7 plus 2 quarts of Prime+ in 46.5 gallons of water per acre about five to seven days after the second Fair 85 application. The plants should be sprayed promptly, no later than 24 hours of sucker removal. Add 3 gallons of FST-7 and 2 quarts of Prime+ to 10—20 gallons of water with the mixer running and more water to bring the volume up to a total of 50 gallons. Operate the sprayer at a speed of 2.5 to 3 miles per hour and spray 50 gallons of diluted emulsion per acre to tobacco. Use a coarse spray covering the top 1/3 to 1/2 of the plant and allow the liquid to run down the stalk to the bottom of each plant using only about 20 pounds of pressure.~~

### **BURLEY, DARK, MARYLAND AND CIGAR TOBACCO**

#### **Application Sequence:**

~~Remove by hand any suckers that are over one inch long. Apply FST-7 mixed with Prime+ 5 to 7 days after application of 2 gallons of FAIR 85 in 50 gallons of water per acre at the early button stage. The plants should be sprayed promptly, no later than 24 hours of sucker removal. For powered spray equipment, add 3 gallons of FST-7 and 2 quarts of Prime+ to 10—20 gallons of water and with the mixer running add more water to bring the volume to a total of 50 gallons. Operate the sprayer at a speed of 2.5 to 3 miles per hour and apply 50 gallons of diluted emulsion per acre of tobacco. Use a coarse spray covering the top 1/3 to 1/2 of the plant and allow the liquid to run down the stalk to the bottom of each plant using only about 20 pounds of pressure. For the compressed air shoulder spray use 23 ounces of FST-7 and 3.75 ounces of Prime+ per 3 gallons of water and mix well before using. Apply at a rate of 3 gallons of diluted emulsion per 667 plants agitating the solution from time to time during spraying.~~

## **~~Follow precautions and label restrictions on the FST-7 label and the Prime+ label.~~**

FST-7/Rear panel,p.2

### **NOTES AND LIMITATIONS**

1. Do not make more than one application per season.
2. Should wash off occur within 6 hours of application, a single repeat application may be made.
3. Do not harvest earlier than 7 days after application
4. Mix well prior to use. If allowed to stand during use, mix again before applying since the diluted emulsion may separate on standing.
5. Do not use on burley tobacco during periods of high heat and humidity.
6. Make sure that the spray equipment is clean before use.
7. Do not use on seed tobacco.
8. Do not allow to drift to nearby crops.
9. Usage according to the directions outlined has resulted in effective sucker control with little or no leaf injury. Application not in accordance with the directions may lead to injury to leaves or improper sucker control.

**WARRANTY STATEMENT:** To the extent consistent with applicable law, Seller's guarantee shall be limited to the terms of the label, and subject thereto the buyer assumes any risk to persons or property arising out of use or handling and accepts the product on these conditions.