



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (7505P)
Ariel Rios Building
1200 Pennsylvania Ave., NW
Washington, D.C. 20460

EPA Reg. Number: 5549-89
 Date of Issuance: MAR 13 2008

NOTICE OF PESTICIDE:
 Registration
 Reregistration
 (under FIFRA, as amended)

Term of Issuance: Conditional
 Name of Pesticide Product:
 Check Maleic Hydrazide 15


Name and Address of Registrant (include ZIP Code):
 Attn: James Pearce
 Coastal AgroBusiness, Inc.
 PO Box 856
 Greenville, NC 27834

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.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration of your product under FIFRA Section 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for re-registration of your product under FIFRA Section 4.
2. Before releasing the product for shipment, revise the EPA Registration Number to read, "EPA Reg. No. 5549-89." Within 30 days submit a final printed label, to the Agency, making the following changes:
 - A. Determine whether the statement "Growth Retardant *Controls* Tobacco Sucker Growth," on the front panel, is preferable to the present version.
 - B. To the label's 'Precautionary Statement' section, append to its third sentence: "Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco."

Signature of Approving Official:

 Tony Kish
 Product Manager, Team 22
 Fungicide Branch
 Registration Division (7505P)

Date:
 MAR 13 2008

- 2C. On Page 3, in the section "Application Equipment" consider adding additional information to clarify the ambiguous reference to "correct time." If the Application Notes section that follows serves as reference, make use of asterisk or the like, to ensure guidance is more deliberate.
- 2D. 'Ingredient Statement' contains an error with regard to the percent by weight calculation of the active ingredient, which must be changed from 1.5 pounds, to 2.0 pounds. Alternately, this may be corrected by appending '(expressed without potassium salt)' as follows:
 '* Contains 1.5 pounds of maleic hydrazide (expressed without potassium salt) per gallon. * Contains 180 grams of maleic hydrazide (expressed without potassium salt) per liter.'
- 2E. Beneath 'Environmental Hazards' insert the following sections:
 "User Safety Requirements:
 Follow manufacturer's instructions for cleaning/ maintaining PPE, if no such instruction for washables, use detergent and hot water. Keep and wash PPE separately from other laundry."

 "User Safety Recommendation:
 User must wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Users must remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users must 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."
- 2F. To the section 'Storage and Stability', on page 4, instead of 'Storage' use 'Pesticide Storage' as the subheading.
- 2G. The final label section/paragraph, on page 4, must bear the heading 'Warranty and Disclaimer' or an equivalent as such. Under this section, revise the final line by appending: "*To the extent permitted by applicable law...*," before "buyer assumes..." As currently written, the statement negates and/or detracts from labeling requirements as set forth by the Agency in 40 CFR Part 156, and thus considered misbranding.
- 2H. The following National Pollutant Discharge Elimination System (NPDES) statement (as outlined in PR Notice 93-10) must be added to the 'Environmental Hazards' section of the label.

 "Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to

sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA."

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release of the shipment of your product constitutes acceptance of these conditions.

A copy of the label stamped "Accepted with Comments" is enclosed for your records.

Enclosures

Check ✓

**GROWTH RETARDANT
Control
Tobacco Sucker Growth**

**Maleic
Hydrazide
15**

**ACCEPTED
with COMMENTS
in EPA Letter Dated
MAR 13 2008**

**Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No. 5549-89**

Active Ingredient: (% by weight)

Maleic Hydrazide, potassium salt (CAS No. 28382-15-2)	
(1,2-dihydro-3,6-pyridazinedione, potassium salt).....	21.7%*
Inert Ingredients:	<u>78.3%</u>
TOTAL	100.0%

*Contains 1.5 pounds of maleic hydrazide per gallon.
* Contains 180 grams of maleic hydrazide per liter.

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

Distributed by:
Coastal AgroBusiness, Inc.
Greenville, North Carolina

EPA Reg. No. 5549- {To Be Assigned}

EPA Est. No. 5549-NC-14

NET CONTENTS:



FIRST AID

IF IN EYES:

- Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.
- Remove contact lens, if present, after the first 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for treatment advice.

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

TRANSPORTATION EMERGENCY (CHEMTREC) 800-424-9300

**PRECAUTIONARY STATEMENTS
Hazards to Human and Domestic Animals**

CAUTION

Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

PERSONAL PROTECTIVE EQUIPMENT

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

Applicators and other handlers must wear: Long sleeved shirt and long pants, chemical-resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride; shoes plus socks.

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.

When handlers use closed systems, enclosed cabs or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240(d)(4-6)), the handler PPE requirements may be reduced or modified as specified in the WPS.

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.

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.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read all label directions carefully before use. Do not apply this product through any type of irrigation system. 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. 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 12 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

DIRECTIONS FOR USE: TOBACCO

BENEFITS

To prevent sucker development on flue-cured, burley, dark, Maryland and cigar (Pennsylvania and Wisconsin) tobacco.

GENERAL INFORMATION

CHECK MH15 is a potassium salt formulation of maleic hydrazide used to prevent sucker development in tobacco. Because CHECK MH15 is absorbed and moves inside the tobacco plant, spraying the whole plant is not necessary. See APPLICATION NOTES for additional important information.

APPLICATION EQUIPMENT

Best results are obtained when CHECK MH15 is applied to the upper 1/3 to 1/2 of the plant. To obtain satisfactory control, it is very important to apply equal amounts of CHECK MH15 to each plant, at the correct time.

Flue-Cured Tobacco

Apply CHECK MH15 with powered spray equipment. Sprayers with 3 full cone nozzles per row, applying either a coarse spray (i.e, 20 to 30 psi) or a fine spray (40 to 50 psi), will give equivalent sucker control. Do not use drop nozzles, since such systems can deposit undesired spray on the underside of the leaves or on the lowest leaves, which are harvested first.

Burley, Maryland, Dark and Cigar (Pennsylvania and Wisconsin) Tobacco

Apply CHECK MH15 with motorized field sprayers (high-clearance or tractor-mounted) equipped with solid cone nozzles that deliver a coarse spray at 20 to 30 psi in a uniform spray pattern. For example, application may be made with a broadcast arrangement over the row on 20 to 24 inch boom spacings, or with a three solid cone nozzle arrangement directed over the row. With any sprayer setup, the application must provide good, uniform coverage of the crop. CHECK MH15 may also be applied with hand-held equipment, provided that a uniform spray pattern is delivered.

RATE AND TIMING OF APPLICATION

Apply the higher rate of CHECK MH15 when plants are very vigorous. Always remove any suckers present at topping time.

Flue-Cured Tobacco

Apply 1.5 to 2 gallons of CHECK MH15 in 40 to 50 gallons of water per acre as a coarse or fine spray. Application should be made 5 to 7 days after the last contact treatment, or when the uppermost harvestable leaves are a minimum of 8 inches long.

Burley and Maryland Tobacco

Top and sucker the plants when 10 to 25% of the plants in the field have one open flower. Remove all existing suckers and apply CHECK MH15 within 24 hours, at a rate of 1.5 to 2.0 gallons in 50 gallons of water per acre. Tip leaves to be harvested should be at least 8 inches long at time of topping, suckering and CHECK MH15 application.

Dark Tobacco

Apply 1.5 to 2 gallons of CHECK MH15 in 50 gallons of water per acre. Apply CHECK MH15 within 24 hours after topping. Topping should be done when 10 to 25% of the plants in the field have one open flower. Existing suckers should be removed at topping time.

Wisconsin Cigar Tobacco

Apply 1.5 to 2 gallons of CHECK MH15 in 50 gallons of water per acre. Apply CHECK MH15 within 24 hours after topping. Tobacco should be topped between the time when the first flowers open and not later than when 50% of the plants are in flower. Existing suckers should be removed at topping time.

Pennsylvania Cigar Tobacco

Apply 1.5 to 2 gallons of CHECK MH15 in 50 gallons of water per acre. Apply CHECK MH15 within 24 hours of topping. Topping should be done when 25 to 50% of the plants in the field have one open flower. Existing suckers should be removed at topping time.

APPLICATION NOTES: TOBACCO

1. Always follow dosage recommendations carefully and spray field uniformly. Too little CHECK MH15 may result in less than desired sucker control; too much may reduce quality of tips.
2. Use only one application of CHECK MH15 per year, unless rains occur within 6 hours after application. Should washoff occur within 6 hours, a single repeat application may be made to ensure effective sucker control.
3. To control tobacco suckers effectively, apply CHECK MH15 at the proper time. Spraying too early in the season may prevent normal development of top leaves; spraying too late will allow some sucker growth.
4. Compatibility studies with CHECK MH15 and foliage applied fungicides and insecticides have not been completed. Separate application is recommended.
5. Do not use on tobacco plants grown for seed production.
6. Do not spray tobacco in the middle of hot, dry days when leaves are severely wilted. For best results spray during the early morning, or all day on cloudy days, avoiding late afternoon or night applications.
7. Closely hand-suckered tobacco or tobacco treated with CHECK MH15 will not ripen as rapidly as poorly suckered tobacco. Also, under some conditions CHECK MH15 treated tips have a tendency to turn yellow prematurely. This is not harmful and does not mean that your tobacco is ripe. Therefore, do not harvest tobacco treated with CHECK MH15 by using time and color of the leaves as your only guide to ripeness. Use other characteristics indicative of ripeness such as:
 - a. Fading of color from midrib.
 - b. Change in apparent leaf texture.

- 8. If tobacco plants have been grown under drought conditions, absorption of CHECK MH15 may be slow, and results may not be as good as when plants have been grown under normal conditions.
- 9. Allow at least 7 days after application before harvest.
- 10. Even though CHECK MH15 is non-volatile, no drift should be permitted onto nearby crops.
- 11. SURFACE WATER ADVISORY: Under some conditions, maleic hydrazide 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.

ALWAYS SHAKE OR STIR WELL BEFORE USE.

STORAGE AND DISPOSAL

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

STORAGE: Store in original container only. After partial use, replace lid and close tightly. Store in a secure place that is temperate, dry and out of direct sunlight. The active ingredient in CHECK MH15 will separate from the surfactant at temperatures above 134°F. If containers have been exposed to high temperatures, the contents can be remixed by lowering the temperature of the entire formulation below 134°F and applying agitation. **ALWAYS SHAKE OR STIR WELL BEFORE USE.**

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

EQUIPMENT CLEANING: CHECK MH15 is not corrosive to spray equipment. Following applications, all spray equipment should be thoroughly rinsed with water. Do not contaminate water by disposal of equipment washwaters.

CONTAINER DISPOSAL: Plastic Containers: Triple rinse (or equivalent). Pressure rinse preferred. Then offer for recycling, reconditioning, or puncture and dispose of in a sanitary landfill, by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

IMPORTANT NOTICE — Seller warrants that this product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with the directions and instructions specified on the label under normal conditions of use, but neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use of this product, contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use.