



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF  
CHEMICAL SAFETY AND  
POLLUTION PREVENTION

JUL 29 2010

Stephen Maybaum  
Agriguard Company LLC  
Product Registration Manager  
Centennial Plaza, Suite 100  
186 North Avenue East  
P.O. Box 630  
Cranford, NJ 07016

Subject: Furfural Technical  
EPA Registration No. 75753-2  
Your Amendment dated August 8, 2005, Adding the new outdoor use- golf course  
tees, greens and practice greens and sod farms  
PRIA Decision No. 354942

Dear Mr. Maybaum:

The labeling referred to above, submitted in connection with registration under section under 3(c)(7)(b) of the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) is acceptable provided you make the following changes:

Label Changes

1. On page 1, place the child hazard warning statement "KEEP OUT OF REACH OF CHILDREN" prior to the English/Spanish signal word "DANGER-PELIGRO-POISON".
2. On page 2, in the "WARRANTY" section, revise the paragraph to read, "Seller warrants that the product conforms to its chemical description and when used according to label directions under normal conditions of use, it is reasonably fit for the purpose stated on the label. To the extent consistent with applicable law, seller makes no other warranty, either expressed or implied, and to the extent consistent with applicable law, the buyer assumes all risks should the product be used contrary to label instructions."

Conditional Data Requirements

Submit the following data by the specified date:

1. An acute inhalation toxicity study (OPPTS Guideline No. 870.1300) by May 2012.
2. Acute and sub-chronic neurotoxicity studies (OPPTS Guideline No. 870.6200) by January 2016.

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3. A multi-generation reproduction and fertility effects rat study (OPPTS Guideline No. 870.3800) by January 2015.
4. A metabolism and pharmacokinetics rat study (OPPTS Guideline No. 870.7485) by January 2014.
5. An immunotoxicity study (OPPTS Guideline No. 870.7800) by July 2011.
6. A turf transferable residue study by July 2012.
7. Field volatility studies which include an improved design with more appropriate field size/fetch distance by July 2012.
8. An environmental chemistry methods and independent laboratory validations study for soil, water, and air (parent only) for furfural parent and its degradates, 2-furic acid, and furfuryl alcohol (OPPTS Guideline No. 835.6100) by July 2014.
9. An aerobic soil metabolism study (OPPTS Guideline No. 835.4100) and anaerobic soil metabolism study (OPPTS Guideline No. 835.4200) by July 2014.
10. A terrestrial field dissipation study (OPPTS Guideline No. 835.6100), and field volatility study (OPPTS Guideline 835.8100) with analysis of grass clippings by January 2013.
11. An avian acute inhalation study conducted on bobwhite quail species by July 2012.
12. An avian acute oral toxicity study conducted on passerine/songbird species (OPPTS Guideline No. 850.2100) by July 2012.
13. Avian sub-acute dietary toxicity studies conducted on quail and mallard duck species (OPPTS Guideline No. 850.2200) by July 2012.
14. Avian reproduction studies conducted quail and mallard duck species (OPPTS Guideline No. 850.2300) by January 2014.
15. Fish acute toxicity studies on rainbow trout and fathead minnow species (OPPTS Guideline No. 850.1075) by January 2013.
16. An estuarine/marine acute toxicity on shrimp (OPPTS Guideline No. 850.1035) by January 2013.
17. An aquatic invertebrate life cycle study on saltwater estuarine/marine species (OPPTS Guideline No. 850.1350) by January 2013.

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- 18. A fish early life-stage study on estuarine/marine species (OPPTS Guideline No. 850.1400) by January 2013.
- 19. A freshwater fish full life cycle study (OPPTS Guideline No. 850.1500) by July 2014.

If you propose to submit any additional new uses prior to the study due dates listed in this letter, then these studies must be submitted at the time of application for the new uses and not the later dates as noted beside each guideline number.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). One copy of the label stamped "Accepted with Comments" is enclosed for your records. If you have any questions, please contact Tamue L. Gibson by phone at (703) 305-9096 or via email at [gibsoon.tamue@epa.gov](mailto:gibsoon.tamue@epa.gov).

Sincerely,



Cynthia Giles-Parker  
Fungicide Branch Chief  
Registration Division (7504P)

Enclosure



Left panel

**PRECAUTIONARY STATEMENTS  
HAZARD TO HUMANS AND DOMESTIC ANIMALS  
DANGER/PELIGRO – POISON**

Fatal (poisonous) if absorbed through skin. May be fatal if swallowed. Harmful if inhaled. Do not breathe vapors. Causes substantial but temporary eye irritation. Do not get in eyes, on skin, or on clothing. Wear protective eyewear (goggles, face shield, or safety glasses), coveralls over long-sleeved shirt and long pants, socks, chemical-resistant footwear, and waterproof gloves. Remove contaminated clothing and wash before reuse. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco

Furfural is a combustible, yellow liquid that turns reddish-brown upon exposure to light and air, and possesses a heavy almond-like odor. Vapors are heavier than air and may travel to a source of ignition and flash back. Hazardous polymerization may occur if heated or catalyzed. Irritating to eyes, skin and respiratory system. Inhalation may cause headache, nausea and central nervous system depression. May be absorbed through intact skin.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Pesticide handlers must wear coveralls over long-sleeved shirt and long pants, socks, chemical-resistant footwear, and chemical-resistant gloves. Protective eyewear must be worn.

Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, 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

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to birds and harmful to the aquatic environment. 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 Control Board or Regional Office of the EPA.

**PHYSICAL AND CHEMICAL HAZARDS**

Combustible. Do not use or store near heat or open flame. Can be degraded by contact with acids or bases. Keep away from ignition sources.

**WARRANTY**

Seller warrants that the product conforms to its chemical description when used according to label directions under normal conditions of use, it is reasonably fit for the purpose stated on the label. To the extent allowed by applicable law, seller makes no other warranty, either expressed or implied, and buyer assumes all risks should the product be used contrary to label instructions.

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**DIRECTIONS FOR USE**

**It is a violation of Federal law to use this product in a manner inconsistent with its labeling.**

**For Manufacturing Use Only**

Only for formulation into a liquid growing media/soil treatment for non-food use in greenhouses (indoor) and terrestrial (outdoor) non-food use on golf course tees and greens, practice greens and turf/sod farms to control root infesting plant parasitic nematodes, and fungal plant diseases such as species of *Pythium*, *Phytophthora*, *Fusarium* and *Rhizoctonia*.

**STORAGE AND DISPOSAL**

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

**Pesticide Storage**

Store in the original container in a secure, cool, dark, well-ventilated area away from ignition sources. Store away from oxidants, strong acids and strong bases. Do not store in plastic containers. The color of furfural turns to red-brown during storage. Storage under nitrogen is recommended.

**Pesticide Disposal**

Pesticide wastes are acutely hazardous. 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

**Container Handling:** Nonrefillable container. Do not reuse this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state.

Triple rinse container (or equivalent) promptly after emptying. Containers ≤ 5 gallons triple rinse as follows: Empty the remaining contents into application equipment or mix tank and drain 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. Containers > 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 this procedure two more times.

Then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.