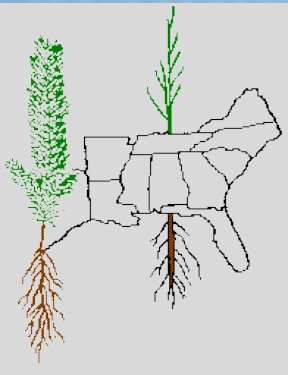




Products, Labels & Legislation



Tom Starkey
Southern Forest Nursery Cooperative
Auburn University



A few words of caution.....

- Nursery Cooperative Newsletter – Spring 2010 – “All Pesticide Formulations are Not Created Equal” -from *Greenhouse Management & Production* magazine (Feb. 2010 pg 30-31)
- A chemical under patent – source limited
- A chemical off patent – source “unlimited”
- Post-Patent companies are not required to submit efficacy data to EPA.

A few words of caution.....

- 2 types of ingredients are listed on every label – (1) Active and (2) Inert.
- The term “Inert” is a poor choice of a word
- Inert materials are absolutely vital to turning active ingredients into user-friendly products
- When a company develops a new chemical, the formulation is confidential.

A few words of caution.....

- When the chemical goes off patent, post-patent suppliers, must develop or outsource development of their own formulations.
- It is possible for a post-patent company to sell a product that has never actually been commercially field tested.
- Beware! – There may be more to consider than just price.



Products



bezmuke.blogspot.com/2009/04/strange-animals.html

New Products

GROUP

43

FUNGICIDE



Adorn™

F U N G I C I D E



FOR CONTROL OF PYTHIUM,
PHYTOPHTHORA AND
DOWNY MILDEW IN ORNAMENTAL PLANTS

Active Ingredient	By Wt.
*Fluopicolide.....	39.5%
Other Ingredients.....	60.5%
Total.....	100.0%
*2,6-dichloro-N-[[3-chloro-5-(trifluoromethyl)-2-pyridinyl]methyl]benzamide	

Adorn™ Fungicide is an aqueous flowable fungicide containing 4 lbs active ingredient per gallon.

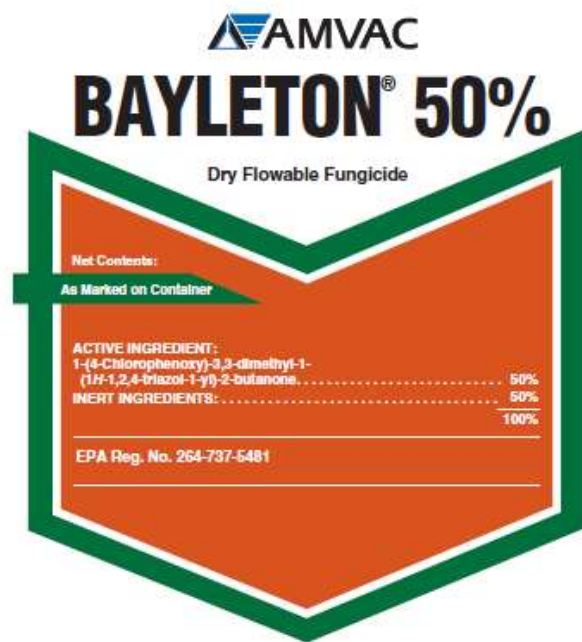
EPA Reg. No. 59639-141 EPA Est. No. 39578-TX-01

<http://www.cdms.net/LDat/Id9BQ000.pdf>



Labels

triadimefon



Bayer Environmental Science

Bayleton® 50

Turf and Ornamental Fungicide in Water Soluble Packets
Systemic Fungicide

For control of certain diseases on flowers, foliage plants, shrubs, turf and shade trees. For use on plants intended for aesthetic purposes or climatic modification and being grown in interior landscapes, ornamental gardens or parks, or on golf courses or lawns and grounds.

ACTIVE INGREDIENT:

1-(4-Chlorophenoxy)-3,3-dimethyl-1-(1H-1,2,4-triazol-1-yl)-2-butanone 50%

INERT INGREDIENTS 50%
100%

Keep water soluble packets in this container and store in a cool place but not below freezing (32 °F). Sell in original packages only.

U. S. Patent No. 3,912,752

EPA Reg. No. 432-1360

SELL IN ORIGINAL PACKAGES ONLY
CONTAINS ____ 5.5 OUNCE WATER SOLUBLE PACKETS

Total Net Contents:

STRIKE[®] 50 WDG

GREENHOUSE and NURSERY SYSTEMIC FUNGICIDE

SPECIMEN LABEL

For Control of Certain Diseases on Flowers, Foliage Plants, Shrubs, and Shade Trees in Commercial Nurseries, Garden Centers and Greenhouses.

ACTIVE INGREDIENT:

1-(4-Chlorophenoxy)-3,3-dimethyl-1-
(1 *H*-1,2,4-triazol-1-yl)-2-butanone 50.0%

INERT INGREDIENTS: 50.0%

TOTAL: 100.0%

triadimefon

Manufactured for:
OHP, Inc.
P. O. Box 230
Mainland, PA 19451
(800) 356-4647

ESL102904 REV121605
OHP 988194



RESTRICTED USE PESTICIDE

Toxic to Fish and Aquatic Organisms

For retail sale to, and use only by, Certified Applicators or persons under their direct supervision,
and only for those uses covered by the Certified Applicator's certification.

TENKŌZ

Permethrin

3.2EC insecticide

Active Ingredient

Permethrin* 36.8%

Other Ingredients** 63.2%

TOTAL 100.0%

*cis/trans ratio: Max. 42% (±) *cis* and min. 58% (±) *trans*

** Contains petroleum distillates.

Contains 3.2 pounds permethrin per gallon as an emulsifiable concentrate.

Index to Crops Listed on this Label

Vegetable Crops:

Artichoke
Asparagus
Avocado
Cole Crops
(Brassica Leafy Vegetables)
Collards and Turnips
Corn, Sweet
Corn, Sweet
(Florida Only)
Cucurbit Vegetables
Eggplant
Horseradish
Leafy Vegetables
(except Brassica)
Onions, Bulb and Garlic
Peppers, Bell
Potatoes
Tomatoes, Tomatillos

Tree Fruit and Nuts

Almonds
Apples
Cherries
Filberts
Papaya
(Florida Only)
Peaches and Nectarines
Pistachios
Pears
Walnuts

Other Crops

Alfalfa
Corn (Field),
Field Corn Grown for Seed,
Popcorn
Pre-emergent Use
Foliar Use
At Plant Use

Other Crops (continued)

Mushrooms
Range Grass
(New Mexico Only)
Soybeans
Ornamentals
Chrysanthemum
Conifers
(Container and Field Grown)
Ornamental Nursery Stock
(Field Grown)
Pine Seed Orchards
Roses (Field Grown)
Roses (Greenhouse)

Lawn and Ornamental Uses

Other Uses

Premises Spray
Treatment of Preconstruction Lumber and Logs

Other sources for Chlorpyrifos

- Chlorpyrifos
 - **DuraGuard ME** by Whitmire Micro-Gen, St Louis, MO - (ai 20%)
 - **Chlorpyrifos 4E** by Quali-pro, Raleigh, NC - (ai 42.5%)
 - **Chlorpyrifos E*Pro 2** by Etigra, Cary, NC – (ai 24.55%)

Other sources for Thiophanate-methyl

- Cleary's 3336[®] thiophanate-methyl
 - T-Methyl[®] by Nufarm/Etigra (ai 85%)
 - OHP 6672[®] by OHP (ai 50%)
 - Thiophanate Methyl 85 WDG by Mana (ai 70%)



and pending Legislation





Disclosure of inert ingredients in pesticide formulations

- (Docket Number EPA-HQ-OPP-2009-0635). Comment period closed Apr 23, 2010.
- Nursery Cooperative commented in support of this proposal Feb 25, 2010. EPA-HQ-OPP-2009-0635-0212.1





False or Misleading Pesticide Product Brand Names

Table 1. Examples of Potentially False or Misleading Product Brand Names

Selected Types of False or Misleading Statements	Examples of Potentially False or Misleading Words or Phrases in Product Brand Names
Composition	"100% Pure," "Contains No (chemical name)," "Bio-ganic"
Effectiveness	"Eradicator," "Germ-Shield," "100% Protection," "All-Kill," "Professional," "Professional Grade," "Pro"
Safety-related or comparative safety	"Safe," "Safer," "Safest," "Natural," "Healthy," "Non-Toxic," "Environmentally Safe," "Green," "Eco-," "Earth Friendly"

- Comments, identified by docket identification (ID) number EPA- HQ-OPP-2010-0282, must be received on or before August 17, 2010



EPA proposes action that would reduce amount of pesticides discharged and protect America's waters *National Pollutant Discharge Elimination System (NPDES)*

- http://cfpub.epa.gov/npdes/home.cfm?program_id=410
- The agency's draft permit covers the following pesticide uses: (1) mosquito and other flying insect pest control; (2) aquatic weed and algae control; (3) aquatic nuisance animal control; and (4) forest canopy pest control.
- Will agricultural runoff and/or irrigation returns that contain pesticides require an NPDES permit? – No
- Does this apply to discharges from terrestrial applications for the purpose of controlling pests on agricultural crops or forest floors? – No
- The agency plans to finalize the permit in December 2010. It will take effect April 9, 2011.

