# BIATHLON®

# **Ornamental Herbicide**

ohp Partners with solutions

A GRANULAR HERBICIDE FOR PREEMERGENT CONTROL OF GRASS AND BROAD-LEAF WEEDS IN FIELD AND CONTAINER ORNAMENTALS, GROUNDS MAINTENANCE, AND OTHER SPECIFIED NON CROP AREAS. ALSO FOR EVERGREENS (BROADLEAF AND NEEDLE) LIMITED TO CHRISTMAS TREE FARMS AND CONIFER FARMS.



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### Product Information Bulletin

# **GENERAL INFORMATION**

**Biathlon** is a combination herbicide containing two selective active ingredients that provide a broad spectrum of weed control with very good plant tolerance on ornamentals.

**Biathlon** contains 2.0% oxyfluorfen and .75% prodiamine on a dust-free granule.

### Common Name: Oxyfluorfen and Prodiamine

Class: Diphenylether + Dinitroanaline

GROUP	14 + 3	HERBICIDE
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Packaging: 50 lbs. bags

# RESTRICTED ENTRY INTERVAL (REI) AND SIGNAL WORD

REI = 24 hours

Signal Word = **CAUTION** 

### PERSONAL PROTECTIVE EQUIPMENT (PPE)

- Long-sleeved shirt and pants
- Socks and shoes

# **MODE OF ACTION**

**Biathlon** provides weed control by combining two modes of action, inhibition of both microtubule assembly (MOA #3) and inhibition of protoporphyrinogen oxidase (MOA #14). These MOA's result in the inhibition of cell division and disrupting cell wall formation in shoots and roots of emerging seedling weeds. The result is the prevention of weed seed emergence.

### **USE SITES**

**Biathlon** is registered for use in field and container ornamentals, grounds maintenance and other specified crop areas. It is also labeled for use on evergreens (broadleaf and needle) but limited to Christmas tree and conifer farms.

### **APPLICATION AND RATES**

**Biathlon** is applied as a broadcast application.

### **Container Grown Ornamentals**

Apply 100 pounds per acre. Thoroughly incorporate granules into the media through watering-in. Apply **Biathlon** prior to weed seed germination. Prior to **Biathlon** application, irrigate with approximately ½ inch of water to firm potting media around newly planted root systems. **Biathlon** may be re-applied in 3 months. Do not apply over 200 pounds per acre per year. For application in the fall, apply two weeks prior to placing plants in an empty, enclosed greenhouse structure.

# Field Grown Ornamentals, Christmas tree and conifer farms

Apply **Biathlon** at 100 pounds per acre after planting or in the spring prior to weed germination or weed removal. A maximum of two applications may be made per growing season. For newly planted field crops irrigate with approximately ½ inch of water to settle the soil around root systems. Apply **Biathlon** prior to weed seed germination and or after a compete removal of weeds.

#### Note: Do not apply to bedding plants, liner production beds, flowers, ground covers, vegetables or turf. Do not apply to wet foliage.

### INDIVIDUAL CONTAINER APPLICATIONS

For situations where broadcast application of the product is not appropriate, apply the product uniformly over the entire container surface at the rates in the following table (1 gm **Biathlon**/sq. ft.):

Container Size	Surface Area (Sq. Ft.)	Grams of Biathlon/ Container	Volume of Biathlon/ Container
1 gal. (6" diam.)	0.20	0.20	1/8 tsp.
2 gal. (9" diam.)	0.44	0.44	1/4 tsp.
3 gal. (10" diam.)	0.55	0.55	1/4 tsp. (rounded)
5 gal. (12" diam.)	0.79	0.79	1/4 tsp. (heaping)
15 gal. (17" diam.)	1.60	1.60	1/2 tsp.

# **KEY WEEDS CONTROLLED**

#### **GRASSY WEEDS**

Annual bluegrass Barnyardgrass Crabgrass Fall Panicum Foxtail, Green

### **BROADLEAF WEEDS**

Bittercress Common Chickweed Cudweed Dandelion Eclipta Fleabane Fireweed Groundsel Marestail Foxtail, Yellow Goosegrass Kikuyu Grass Sprangletop

Oxalis Pearlwort Pepperweed Pigweed Shepherdspurse Sowthistle Spurge, Garden Spurge, Prostrate Spurge, Spotted

# LIST OF CROPS TOLERANT TO BIATHLON

Abelia	Lantana			
Anise	Lilac			
Arborvitae	Lobelia			
Aureo-marginata Spindle Tree	Malus			
Azalea	Northern Bayberry			
Barberry	Oleander			
Boxwood	Pittosporum			
Butterfly Bush	Privet			
Canada Red Chokecherry	Red-Osier Dogwood			
Chinese Fringe-Flower	Rhododendron			
Cinquefoil	Rose			
Clethra	Red epimedium;			
Coreopsis	Red barrenwort			
Cotoneaster	Sabel Palm			
Crape Myrtle	Scotch Pine			
Cryptomeria-Japanese-Cedar	Southern magnolia			
Deutzia	Speedwell-creeping			
Eastern redbud	Spirea			
Escallonia	Symphoricarpos Sweet			
Euonymus	Sensation			
Fire bush	Variegated Reed Grass			
Gardenia	Viburnum			
Heavenly Bamboo	Weigela			
Hibiscus	Willow-leaved			
Holly	sunflower			
Jacaranda	Yew			
Juniper				
For specific plant names see the container label.				

Use of Biathlon according to the labeling is subject to the use precautions and limitations imposed by the label affixed to the bag of Biathlon. It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Always read product label prior to product use. Biathlon is a registered trademark of OHP, Inc. © 5/2011

# Treatment of ornamental species not listed on the label for Biathlon

The species listed in the table aside have been tested under actual growing conditions and found tolerant at the recommended application rate. Users who wish to use **Biathlon** on ornamental plant species not listed on the label may determine the suitability for use by treating a small number of such plants at the recommended rate. The user assumes responsibility for any plant damage or other liability resulting from use of **Biathlon** on plant species not recommended on the label.

#### Injury on the following plant species has been observed following applications of Biathlon and use is not recommended.

Ageratum 'Hawaii Blue' Clematis 'Duchess of Edinburgh' Dianthus spp. Echinacea spp. Erica mediterranea Euonymus alata 'Compacta' Hydrangea spp.

Petunia spp Potentilla fruticosa 'Goldfinger' Salvia spp. Scabiosa spp. 'Pink Carnival' Sarcococca hookerana humilis Zinnia spp.

### Calibration Pan directions for calibrating applications

- 1. Place the pan on a level surface in an area similar to where you will be applying **Biathlon**.
- 2. Fill your applicator with **Biathlon**.
- 3. Moving at a consistent pace (same pace as desired during actual application), open the applicator gate and apply the **Biathlon** as you pass over the calibration pan. Once past the calibration pan, shut off the applicator.
- 4. Tip the calibration pan toward your desired rate (such as 100 lb /A) so that the granules collect in that dimple.
- 5. If the granules are level with the top of the dimple you are calibrated. If overflowing decrease the spreader opening. If not full, increase your spreader opening.

**Note:** Calibration should be done for every operator if using hand held equipment.

It is also helpful to repeat this procedure a few times for accurate calibration.



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