

BIATHLON®

Ornamental Herbicide



An American Vanguard Company

A GRANULAR HERBICIDE FOR PREEMERGENT CONTROL OF GRASS AND BROADLEAF 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.

Product Information Bulletin

180

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 an engineered granule.

Common Name: Oxyfluorfen and Prodiamine

Class: Diphenylether + Dinitroaniline

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)

- Coveralls
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks

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 to weed free soil. Remove any **Biathlon** granules from foliage or injury may result.

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	Foxtail, Yellow
Barnyardgrass	Goosegrass
Crabgrass	Kikuyu Grass
Fall Panicum	Sprangletop
Foxtail, Green	

BROADLEAF WEEDS

Bittercress	Oxalis
Common Chickweed	Pearlwort
Cudweed	Pepperweed
Dandelion	Pigweed
Eclipta	Shepherdspurse
Fleabane	Sowthistle
Fireweed	Spurge, Garden
Groundsel	Spurge, Prostrate
Marestail	Spurge, Spotted

LIST OF CROPS TOLERANT TO BIATHLON

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

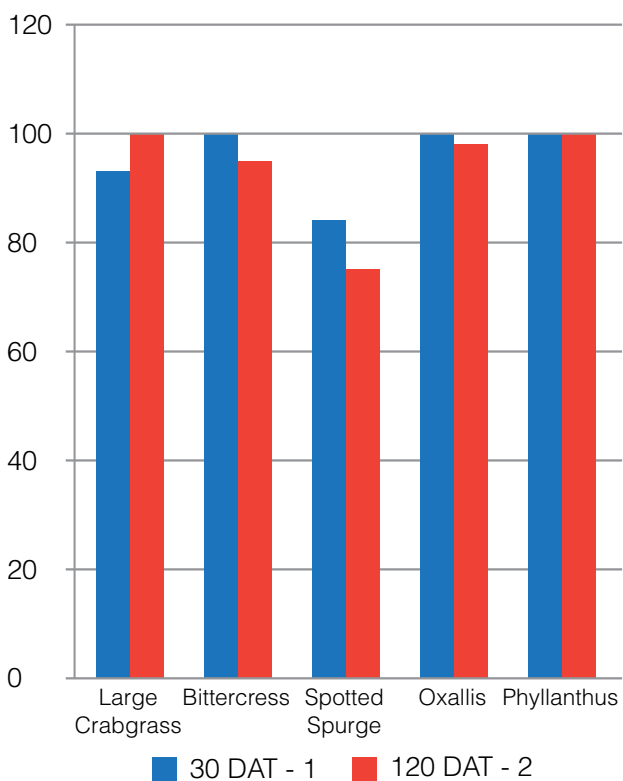
For complete list of tolerant plants species, see the container label.

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.

Agapanthus	Petunia spp.
Ageratum 'Hawaii Blue'	Potentilla fruticosa
Clematis	'Goldfinger'
'Duchess of Edinburgh'	Salvia spp.
Dianthus spp.	Scabiosa spp.
Echinacea spp.	'Pink Carnival'
Erica mediterranea	Sarcococca hookeriana
Euonymus alatus	humilis
'Compacta'	Zinnia spp.
Hydrangea spp.	



Data from Dr. Joe Neal 2010



An American Vanguard Company

5151 McCrimmon Pkwy. Suite 275
Morrisville NC 27560
Technical Service: 800-356-4647
ohp.com

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.
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