

MARENGO® G

Herbicide



PRE-EMERGENT HERBICIDE FOR THE CONTROL OF ANNUAL GRASSES AND ANNUAL BROADLEAF WEEDS IN PRODUCTION ORNAMENTALS, SHADEHOUSES, HOOPHOUSES AND HARDSCAPES.



Product Information Bulletin 511

GENERAL INFORMATION

Marengo G is a selective pre-emergent alkylazine herbicide containing the new active ingredient, indaziflam, which belongs to a new MOA (Mode of Action) group 29, a class of herbicides that inhibit cellulose biosynthesis. **Marengo G** is very water insoluble and does not volatilize.

Marengo G is a granule, which contains 0.0224% active ingredient of indaziflam per pound.

Common Name: Indaziflam

Class: Alkylazines

GROUP	29	HERBICIDE
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Packaging: 50 pound bag

RESTRICTED ENTRY INTERVAL (REI) AND SIGNAL WORD

REI = **12 hours** Signal Word = **NONE**

PERSONAL PROTECTIVE EQUIPMENT (PPE)

- Long-sleeved shirt and long pants
- Shoes plus socks

MODE OF ACTION

Marengo G provides weed control by reducing the emergence of seedlings through inhibition of cellulose biosynthesis (CB inhibitor). **Marengo G** does not control plants emerging from tubers, rhizomes, bulbs, corms, existing rootstocks, and woody vegetation or existing germinated weed seeds.

USE SITES

Marengo G is registered for use on production ornamentals (in outdoor nurseries, shade houses, and hoop houses) ornamental production sites and hardscapes.

APPLICATION AND RATES

Marengo G should be applied with a properly calibrated spreader. Uniform application is essential for satisfactory weed control. Apply 200 pounds per acre. Irrigation or rainfall is necessary within 21 days to activate **Marengo G**. For best results, water-in within 1 to 3 days.

Production Ornamentals

Apply **Marengo G** as a broadcast, directed to the soil or over the top of plant application. Rate range is 100 to 200 pounds per acre. Research recommends 200 pounds per acre. Do not leave granules on foliage.

NON-SELECTIVE USES

Hardscapes

Marengo G may be used to maintain bare ground in non-crop areas, including gravel areas as well as rocky/sandy areas. Apply 200 to 400 pounds per acre with uniform coverage to target area.

Ornamental Production Facilities

Marengo G may be used in production facilities such as areas covered by landscape fabric, hoop-houses, lathhouses and shadehouses to provide bare ground and general weed control beneath benches and potted plants. Make applications to these sites during clean up, sanitation and preparation prior to plant production. Apply 200 pounds per acre or 4.6 pounds per 1000 sq. ft. target area.

Water in application using ½ inch water. Plants may be placed back into the house the following day.

PARTIAL LIST OF KEY WEEDS CONTROLLED

Annual bluegrass	Marestail
Bittercress	Oxalis
Crabgrass	Parthenium
Eclipta	Spurge, spotted
Groundsel, common	Willow Herb

Consult the container label for a complete listing of weeds.

Marengo G Application Limitations

The species listed in the table below have been tested under actual growing conditions and found tolerant at the recommended application rate. Users who wish to use **Marengo G** 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 **Marengo G** on plant species not recommended on the label.

PARTIAL LIST OF CROPS

Trees	Shrubs
Arborvitae	Azalea
Ash	Boxwood
Cedar	Cotoneaster
Crape Myrtle	Gardenia
Cypress	Holly
Elm	Juniper
Magnolia	Lilac
Maple	Rhododendron
Pine	Rose
Tupelo	Viburnum

For specific plant names see the container label.

OHP CALIBRATION PAN

- The first step to calibrate for any OHP herbicide is to determine the rate required (lbs./A), located in the left hand column below. (To determine the setting for Marengo G, for example, at 200 lbs./A, refer to the Marengo G column. The 200 lbs./A setting is line mark 4.)
- Next, place the calibration pan on the ground, apply the product using a comfortable pace, passing over the pan. When finished, tilt calibration pan up, tap the product evenly into the corner collection well.
- Determine lbs./A by viewing the level of the product within the window line marks. Adjust your pace (slower to increase rate, faster to decrease rate) and equipment settings to deliver the correct rate.

* Verge granule

Rate	Biathlon®	Marengo® G*	Casoron®
100 lbs./A	2	2	3
150 lbs./A	3	3	4
200 lbs./A	4	4	5
400 lbs./A	N/A	8	N/A

SUGGESTED SPREADER SETTINGS

Handheld Spreaders	200 lbs./A 4.6 lbs/1000 sq ft
Solo 421 S	14
Warren T-7	5

Use of **Marengo G** according to the labeling is subject to the use precautions and limitations imposed by the label affixed to the container of **Marengo G**. 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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SUGGESTED WEED CONTROL STRATEGIES FOR USING MARENGO G IN FIELD GROWN ORNAMENTALS

Herbicide performance requires proper preparation, calibrated application rates and incorporation of Marengo G in the soil. Start applications before any weed seed has germinated. Consider using Biathlon® herbicide as a first treatment if weed seed is suspected below or deeper in soil media.

DO NOT APPLY MARENGO G TO THE FOLLOWING PLANTS AS INJURY WILL OCCUR

Common Name	Scientific Name
Astilbe	<i>Astilbe chinensis</i>
Barberry	<i>Berberis thunbergii</i>
Blue fescue grass	<i>Festuca glauca</i>
California Lilac	<i>Ceanothus x pallidus</i>
Coneflower	<i>Echinacea purpurea</i>
Croton	<i>Codiaeum variegatum</i>
Dewdrops	<i>Duranta erecta</i>
Dianthus	<i>Dianthus sp.</i>
Elderberry, Blue	<i>Sambucus nigra</i>
Euonymus, Japanese	<i>Euonymus japonicus</i>
Feather reed grass	<i>Calamagrostis x acutiflora</i>
Fountain grass	<i>Pennisetum alopecuroides</i>
Fountain grass, Purple	<i>Pennisetum setaceum</i>
Hydrangea	<i>Hydrangea sp.</i>
Ixora	<i>Ixora coccinea</i>
Japanese Rose	<i>Kerria japonica</i>
Lavender, Munstead	<i>Lavendula angustifolia</i>
Lilyturf	<i>Liriope sp.</i>
Muhlygrass	<i>Muhlenbergia capillaris</i>
Mandevilla	<i>Mandevilla sp.</i>
Mint	<i>Mentha sp.</i>
Plumbago	<i>Plumbago japonicus</i>
Privet, Japanese	<i>Ligustrum japonicum</i>
Sage	<i>Salvia spp.</i>
Spirea	<i>Spiraea japonica</i>
Sweet viburnum	<i>Viburnum odoratissimum</i>
Pepperbush, Summersweet	<i>Clethra alnifolia</i>
Tickseed, Dwarf mouse-ear	<i>Coreopsis auriculata</i>



PO Box 51230, Mainland, PA 19451
 Technical Service: (800) 356-4647
 ohp.com