

432-1523

5/7/2014

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

Terrie Moore
Bayer Environmental Science
2 T.W. Alexander Drive
Research Triangle Park, NC 27709

MAY -7 2014

Subject: Notification; Per PR-Notice 98-10
Indaziflam G
EPA Reg. No. 432-1523
Date Submitted: May 7, 2014

Dear Ms. Moore:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 dated May 7, 2014 for the product referenced above. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10. The label submitted with the application has been stamped "Notification" and will be placed in our records.

If you have any questions regarding this letter, please contact me at (703) 306-0415 or davis.kable@epa.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Kable Bo Davis", written over a horizontal line.

Kable Bo Davis
Product Manager 25
Herbicide Branch
Registration Division (7505P)



United States
Environmental Protection Agency
Washington, DC 20460

<input type="checkbox"/>	Registration
<input type="checkbox"/>	Amendment
<input checked="" type="checkbox"/>	Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number 432-1523	2. EPA Product Manager Kable Bo Davis	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Indaziflam G; ABN; Specticle G and Marengo G	PM# 25	
5. Name and Address of Applicant (Include ZIP Code) Bayer CropScience, Environmental Science division 2 T.W. Alexander Drive, RTP, NC 27709 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____	NOTIFICATION MAY - 7 2014
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.	
<input type="checkbox"/> Notification - Explain below.	<input checked="" type="checkbox"/> Other - Explain below.	

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

-Addition of marketing claims/pictures.

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal	<input type="checkbox"/> Plastic
				<input type="checkbox"/> Glass	<input type="checkbox"/> Paper
* Certification must be submitted		If "Yes" Unit Packaging wgt.	No. per container	Other (Specify) _____	
		If "Yes" Package wgt	No. per container		
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/>	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled			<input type="checkbox"/> Other _____		

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Terrie Moore	Title Regulatory Affairs Manager	Telephone No. (Include Area Code) 919-549-5678
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature 	3. Title Regulatory Affairs Manager	
4. Typed Name Terrie Moore	5. Date 5/7/14	

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Bayer CropScience



May 7, 2014

432-1523 INDAZIFLAM7G NOT Brand Arch 050714

Mr. Kable Bo Davis (PM 25)
U.S. Environmental Protection Agency
Office of Pesticide Programs (7504P)
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501

NOTIFICATION
MAY - 7 2014

Bayer CropScience
2 T.W. Alexander Drive
RTP, NC 27709
Phone : 919.549.2000

RE: INDAZIFLAM G (432-1523): Submission of Marketing Claims and Pictures.

Dear Mr. Davis,

Bayer Environmental Science would like to submit a notification to add marketing claims (pictures) to the INDAZIFLAM G label.

We would like to add the option of having pictures of labeled weeds on the front page of the label. The list of marketing claims/pictures are provided at the end of the label. We would like to have the option of having 1 to 3 weeds on the front page and include a marketing claim of the either the name of the weed or a more general statement taken from the label. There is a picture of each individual weed and a picture of the group of 3 weeds together. There is also a picture of 2 weeds grouped with an example of the marketing claim of "Broadleaf Weeds, Grasses, and Sedges".

Enclosed with this submission are the following documents:

- 8570-1 form
- 5 copies of the label including one shaded

If you have any questions, please contact me at (919) 549-5678 or email me at terrie.moore@bayer.com.

Sincerely,

Terrie Moore
Regulatory Affairs Manager

NOTIFICATION

MAY - 7 2014

GROUP 29 HERBICIDE

INDAZIFLAM G

[ABN Specticle G; Marengo G]

- Editorial Note – Marketing claim positioned here

Preemergent Herbicide for the Control of Annual Grasses, Annual Sedges, and Annual Broadleaf Weeds in Warm Season Turfgrass, Landscape and Production Ornamentals, Greenhouse Floors, Shadehouses, Hoophouses, and Hardscapes

Editorial Note – [Bracketed text] is optional

DO NOT USE FOR THE MANUFACTURING OF FERTILIZER

ACTIVE INGREDIENT:

INDAZIFLAM0.0224%

OTHER INGREDIENTS:..... 99.9776%

TOTAL: 100.000%

EPA Reg. No. 432-1523

EPA Est.

Contains 0.0112 lbs of INDAZIFLAM in a 50 lb bag

KEEP OUT OF REACH OF CHILDREN

For **MEDICAL** and **TRANSPORTATION** Emergencies **ONLY** Call 24 Hours A Day 1-800-334-7577
For **PRODUCT USE** Information Call 1-800-331-2867

FIRST AID

If swallowed:	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything to an unconscious person.
If in eyes:	<ul style="list-style-type: none"> • Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. • Call a poison control center or doctor for treatment advice.
If on skin or clothing:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
If inhaled:	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. • Call a poison control center or doctor for further treatment advice.
Have the product container or label with you when calling a poison control center or doctor or going for treatment.	

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear long-sleeved shirt and long pants, and shoes plus socks.

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Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

ENGINEERING CONTROLS STATEMENTS:

When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations

Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing and PPE immediately if pesticide gets inside. Then wash body thoroughly and put on clean clothing.

ENVIRONMENTAL HAZARDS

This product is toxic to fish, aquatic invertebrates, and plants. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean watermark. Do not contaminate water when disposing of equipment rinsate or washwater. This product may enter water through runoff. Follow directions for use to avoid runoff. A level well maintained vegetative buffer strip between areas to which this product is applied and surface water features including ponds, streams, and springs will reduce the potential for getting into water from rainfall-runoff. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours.

Surface Water Advisory: This pesticide may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having a high potential for reaching surface water via runoff for several months or more after application.

Ground Water Advisory: This pesticide has properties and characteristics associated with chemicals detected in ground water. This chemical may leach into ground water if used in areas where soils are permeable, particularly where the water table is shallow.

DIRECTIONS FOR USE

**It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.
Read entire label before using this product.**

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry intervals. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is coveralls, waterproof gloves and shoes plus socks.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are not within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses. Always wear protective clothing and use appropriate equipment during application and handling. Avoid contact with granules. Avoid breathing dust.

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PRODUCT INFORMATION

INDAZIFLAM G is a selective, pre-emergent alkylazine herbicide. **INDAZIFLAM G** provides extended residual control of many annual grasses including crabgrass, goosegrass, and annual bluegrass, as well as annual sedges, and some broadleaf weeds in turf, landscape ornamentals, production nursery including in-ground and container woody plants, ornamentals, non-bearing fruit and nut trees in nurseries and residential plantings, greenhouse floors (under benches), ornamental production facilities (such as shadehouses, lathhouses and hoopouses), as well as hardscapes.

Use **INDAZIFLAM G** on established warm season turf in areas including golf courses (roughs and fairways), residential and commercial lawns, parks, and cemeteries.

INDAZIFLAM G controls weeds by reducing the emergence of seedlings through inhibition of cellulose biosynthesis (CB Inhibitor). Necrosis or yellowing may be observed if the herbicide is applied to herbaceous tissue such as leaves and green stems of susceptible plants including sensitive ornamentals. **INDAZIFLAM G** does not control plants emerging from tubers, rhizomes, bulbs, corms, existing rootstocks, and woody vegetation.

INDAZIFLAM G needs to be activated prior to weed germination for most effective control. For maximum activity against germinating weeds, **INDAZIFLAM G** requires rainfall or irrigation prior to weed germination.

INDAZIFLAM G is a highly active herbicide that provides effective weed control when applied to the soil around many woody ornamentals grown in-ground. **INDAZIFLAM G** may also be used over-the-top of listed container-grown ornamentals with adequate precautions. **INDAZIFLAM G** may damage sensitive plants, if granules are allowed to remain in contact with foliage. Carefully apply **INDAZIFLAM G** in strict accordance to the label. Be sure to follow all label instructions.

INDAZIFLAM G Conversion Table	
Rate in lbs/Acre	Rate in lbs/1000 sq ft
100	2.3
125	2.9
133	3.1
150	3.4
200	4.6
400	9.2

PRODUCT USE RESTRICTIONS

- Do not exceed 200 lbs of **INDAZIFLAM G** per acre (4.6 lbs/1000 sq ft) in a single application for turf and ornamental applications.
- Do not exceed 400 lbs of **INDAZIFLAM G** per acre (9.2 lbs/1000 sq ft) for all applications within a 12-month period.
- Do not contaminate water intended for irrigation and domestic use.
- Do not apply using aerial application equipment.
- [INDAZIFLAM G is not for sale, distribution, or use in Nassau county, or Suffolk county, New York.]

DEACTIVATING INDAZIFLAM G

Activated charcoal has been shown to deactivate **INDAZIFLAM G** if applied within several days of an application. Application of activated charcoal within 2 weeks after an application of **INDAZIFLAM G** will not reverse phytotoxic symptoms immediately, but it will aid in recovery over time. If it should be necessary to re-sod areas treated with **INDAZIFLAM G**, remove damaged turf to a depth of at least 2 inches, cultivate the soil, and apply activated charcoal to bare ground prior to laying sod. Follow directions for the amount of charcoal to apply on the label of the activated charcoal.

APPLICATION INFORMATION

Apply **INDAZIFLAM G** with clean, properly calibrated drop, rotary, hand shaker or other spreader equipment according to the manufacturer's directions. Check periodically to be certain that the equipment is working properly prior to each use. Uniform application is essential for satisfactory weed control. Follow instructions in the table below for proper calibration of equipment. Avoid skips for the best weed control and overlapping application patterns to avoid turf injury.

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CALIBRATION SETTINGS FOR COMMONLY USED SPREADERS

HOW TO CALIBRATE SPREADERS FOR APPLICATION OF INDAZIFLAM G

The spreader settings provided are accurate for the product samples tested. Results obtained by users may vary due to spreader model variables, spreader calibration differences, granular product production, operator-induced variables such as walking speed and handle height, and also by environmental factors such as air temperature and relative humidity. The settings provided below are recommended as a starting point for accurate calibration. Not all spreader equipment is the same. Applications made with spreaders not listed on this label must be calibrated to ensure proper dosage rate to treated area.

INDAZIFLAM G Rates		
	150 lbs/acre 3.4 lbs/1000 sq ft	200 lbs/acre 4.6 lbs/1000 sq ft
Rotary Spreaders Ground speed: 3 mph		
Scotts Rotary	I	J
Lesco Rotary	C.5	D.5
Spyker 288	3	3.5
Drop Spreaders Ground speed: 3 mph		
Lesco Drop	3.25	3.5
Handheld Spreaders * Ground speed: 3 mph		
150 lbs/acre 3.4 lbs/1000 sq ft		
200 lbs/acre 4.6 lbs/1000 sq ft		
Solo 421 S	3.25	4.5
Earthway Ev-N	10.5	12
Warren T-7	5.5	6
Spyker	3	3.5
Handheld Spreaders ** Ground speed: 3 mph		
150 lbs/acre 3.4 lbs/1000 sq ft		
200 lbs/acre 4.6 lbs/1000 sq ft		
Solo 421 S	3	3.5
Earthway Ev-N	8	9
Warren T-7	3.5	4
Spyker	2.75	3.25
Tractor Mount Spreaders Ground speed: 4 mph***		
150 lbs/acre 3.4 lbs/1000 sq ft		
200 lbs/acre 4.6 lbs/1000 sq ft		
Vicon	16	20
Lely	4.75	5.5

* Calibration run in traditional calibration trays.

** Calibration run around ornamental containers.

*** Power Takeoff (PTO) operating at 540 Revolutions per minute (rpm).

IRRIGATION AND WATERING AFTER APPLICATION

INDAZIFLAM G will provide residual weed control when adequate moisture is present and the application is followed by rain or irrigation within 21 days and prior to weed seed germination. With dry soil, use 0.25 inch of irrigation water, and with soil at or greater than field capacity, reduce the amount of irrigation water. In either case, do not create conditions that cause visible run-off of irrigation water. Adequate rainfall following an application will negate the need for irrigation. For application to ornamentals over-the-top, irrigate within 1 hour to wash granules from the leaf surface and activate the product into the soil.

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EQUIPMENT CLEANUP PROCEDURE

Equipment used to apply **INDAZIFLAM G** must be cleaned prior to use on other sensitive turf and ornamentals, or injury may result. Before and after using **INDAZIFLAM G**, clean all equipment on an approved rinse pad. Wear proper PPE while cleaning equipment.

RESISTANCE MANAGEMENT

INDAZIFLAM G controls weeds by inhibiting cellulose biosynthesis. Cellulose is a component in the formation of plant cell walls. **INDAZIFLAM G** is classified as a Group 29 herbicide. No known resistance to **INDAZIFLAM G** exists, and there are no known instances of cross-resistance between **INDAZIFLAM G** and other classes of herbicides with other modes of action. Performance of **INDAZIFLAM G** is not affected by the presence of biotypes resistant to glyphosate, triazines, ALS inhibitors, mitotic inhibitors, growth regulators, or herbicides with other modes of action.

Prolonged use of any herbicide with the same mode of action may lead to selection of resistant weed populations and a reduction in efficacy. Rotation of herbicides with an alternate mode of action can help prevent the development and spread of resistant weed populations. If resistance to **INDAZIFLAM G** is suspected, use a herbicide with an alternate mode of action.

The decision to use any particular herbicide should be based on an IPM program and all cultural practices and other pesticides in use.

DIRECTIONS FOR USE OF INDAZIFLAM G ON TURF

USE RESTRICTIONS FOR INDAZIFLAM G ON TURF

- Do not apply **INDAZIFLAM G** to newly seeded turf. (Turf is defined as established at least 16 months after seeding or sprigging.)
- Do not apply to golf course greens, tees, or collars.
- Do not verticut within 1 month before or after an application of **INDAZIFLAM G**.
- Do not apply to weakened turf that requires significant fill-in or recovery or to turf that is showing significant signs of stress including winterkill, spring dead spot, transitioning ryegrass, Bermudagrass spring root decline, soil compaction, foliar and root diseases, nematodes, salt accumulation, shade, excessive foot or equipment traffic, and drought. Application of **INDAZIFLAM G** in these situations may delay turf recovery.

USE OF INDAZIFLAM G IN COARSE AND SANDY SOILS

Soil conditions can affect the tolerance of turf and ornamentals to **INDAZIFLAM G**. Coarse or sandy soils may allow for downward movement of **INDAZIFLAM G** into the root zone and cause significant root damage and phytotoxicity. Coarse soils, for example, may include significant quantities of sand, gravel, decomposed granite, and ground cinders. Prior to application of **INDAZIFLAM G** in these soils, confirm soil texture with a soil test. Turf grown in soil exceeding 80% sand or 20% gravel may be at risk. Low rate multiple applications of **INDAZIFLAM G** may reduce the risk on these soils. Refer to use rates for 'Multiple Application Program of **INDAZIFLAM G**' section of this label.

If **INDAZIFLAM G** is to be applied in these soils, evaluate tolerance of a small area of turf in **INDAZIFLAM G** treated soil for tolerance prior to a large scale application.

USE OF INDAZIFLAM G ON WEAKENED OR STRESSED TURF

INDAZIFLAM G controls weeds by inhibiting root development. Newly developing roots of desirable turf may be affected. Factors, both biotic and abiotic, that weaken turf include winterkill, spring dead spot, transitioning ryegrass, Bermudagrass spring root decline, soil compaction, foliar and root diseases, nematodes, salt accumulation, shade, excessive foot or equipment traffic, newly verticut turf, and drought. Application of **INDAZIFLAM G** to turf in these situations may delay turf recovery. **INDAZIFLAM G** may also be used on dormant turf. The user should assess the condition of turf prior to dormancy.

Application of **INDAZIFLAM G** to stressed turf may produce symptoms of injury including yellowing, purple discoloration, thinning, and necrosis. If injury occurs, promote recovery through optimizing fertility and other cultural practices.

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TURF TOLERANCE

INDAZIFLAM G can be used on the following turf types.

Warm season turfgrasses and their cultivars

- **Bermudagrass*** (*Cynodon dactylon*) (and hybrids)-Baby, Celebration, Common**, Floratex, GN1, Tifsport, Tifton 10, Tifway 419, Princess, Vamont, Riviera, Yukon
- **Zoysiagrass** (*Zoysia spp.*)-Cavalier, Crowne, DeAnza, El Toro, Empire, GNZ, Jamar, Meyer, Palisades, Zenith, Zeon
- **Centipedegrass*** (*Eremochloa ophiuroides*)- Tifblair
- **St. Augustinegrass*** (*Stenotaphrum secundatum*)-Captiva, Floratam, Floratine, Palmetto, Raleigh
- **Buffalograss** (*Buchloe dactyloides*)
- **Bahiagrass** (*Paspalum notatum*)

*Application of INDAZIFLAM G may temporarily inhibit the rooting of stolons of bermudagrass, centipedegrass, and St. Augustinegrass. Before making a large-scale application to other cultivars, treat a small area of turf with INDAZIFLAM G and allow four weeks to assess acceptable turf tolerance.

INDAZIFLAM G may cause unacceptable injury to some turf types. Do not use on the following turf types or on turf that is a mixture containing any of these grasses, unless thinning or removal is desired.

- **Creeping bentgrass** (*Agrostis palustris*)
- **Colonial bentgrass** (*Agrostis capillaris*)
- **Annual bluegrass** (*Poa annua*)
- **Roughstalk bluegrass** (*Poa trivialis*)
- **Fine fescue** (*Festuca rubra*)
- **Turf type tall fescue** (*Festuca arundinaceae*)
- **Kikuyugrass** (*Pennisetum clandestinum*)
- **Perennial ryegrass** (*Lolium perenne*)
- **Annual ryegrass** (*Lolium multiflorum*)
- **Kentucky bluegrass** (*Poa pratensis*)
- **Seashore paspalum** (*Paspalum vaginatum*)
- **Bermudagrass** (*Cynodon dactylon*) Common variety "Ormond"

Maximum Single Application Rates for INDAZIFLAM G on Warm Season Grasses

Turf Type	INDAZIFLAM G Rate (lbs/acre)	INDAZIFLAM G Rate (lbs/1000 sq feet)
Bermudagrass	200	4.6
Zoysiagrass	200	4.6
Buffalograss	200	4.6
Bahiagrass	200	4.6
St. Augustinegrass	125	2.9
Centipedegrass	125	2.9

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PRECAUTIONS FOR USE OF INDAZIFLAM G NEAR SENSITIVE GRASSES

CAUTION: INDAZIFLAM G can cause turf injury and stand reduction to sensitive grasses listed in the Turf Tolerance section of this label.

- INDAZIFLAM G may affect sensitive grasses downslope from treated areas after excessive rainfall. To minimize off-target effects of INDAZIFLAM G on sensitive grasses, irrigate after application as directed in the IRRIGATION AND WATERING AFTER APPLICATION section of this label and follow the directions below for specific situations.
- Allow turf to dry before allowing foot traffic or equipment through treated areas near sensitive grasses to avoid tracking.

PRECAUTIONS AROUND GREENS AND TEES CONTAINING COOL SEASON GRASSES

- For applications of INDAZIFLAM G adjacent to bentgrass greens and Bermudagrass greens and tees overseeded with roughstalk bluegrass (*Poa trivialis*), perennial ryegrass (*Lolium perenne*), or other cool season grasses, follow the precautions above and provide an untreated buffer zone of at least 15 ft.
- Do not apply INDAZIFLAM G on uphill slopes adjacent to bentgrass or Bermudagrass greens overseeded with cool season grasses such as *Poa trivialis*.

PRECAUTIONS FOR BERMUDAGRASS OVERSEEDED WITH RYEGRASS

- Do not apply INDAZIFLAM G on annual and perennial ryegrass or on Bermudagrass overseeded with ryegrass. Provide an untreated buffer zone of at least 15 ft between overseeded Bermudagrass and treated areas.

PRECAUTIONS FOR USE NEXT TO OTHER SENSITIVE GRASSES

- INDAZIFLAM G may be applied in situations where warm season grasses are adjacent to sensitive grasses such as tall fescue and perennial ryegrass. The applicator, however, must take care not to apply INDAZIFLAM G directly to sensitive grasses or injury may occur. Cool season grasses must be established at least 16 months prior to an application of INDAZIFLAM G on an adjacent warm season grass. Maintain an untreated buffer of 15 feet between sensitive grasses and treated areas.

USE RATES, TIMINGS, AND MAXIMUM SEASONAL RATE FOR INDAZIFLAM G ON TURF

The desired rate of INDAZIFLAM G for each application and the interval between applications depends on the turfgrass being treated, the weeds to be controlled, and local conditions such as soil texture. Applications of INDAZIFLAM G are made in any season prior to weed germination. Depending on local conditions and weed control desired, sequential applications of INDAZIFLAM G may be made in a calendar year.

The initial application of INDAZIFLAM G must be 100-200 lbs of product per acre (2.3-4.6 lbs/1000 sq ft). Use higher rates within the rate range if weed pressure is expected to be high or when longer residual control is desired.

Factors to consider when deciding between single, split, and multiple application programs include:

- | | |
|--------------------------------------|-------------------------|
| • Weeds to be controlled | • Other herbicides used |
| • Weed pressure | • Mowing height |
| • Turf tolerance | • Turf density |
| • Length of residual control desired | • Turf health |
| • Soil texture | |

Soil texture influences the best use rate for INDAZIFLAM G. Use lower rates in coarse or sandy soils. In fine soils or in soils containing high amounts of organic matter higher use rates of INDAZIFLAM G may be used. The table below provides guidelines for appropriate rates.

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SINGLE APPLICATION PROGRAM FOR INDAZIFLAM G*

Target Weed	INDAZIFLAM G Rate Range (lbs/acre)**	INDAZIFLAM G Rate Range (lbs/1000 sq ft)
Crabgrass	100-200	2.3-4.6
Goosegrass		
Annual Bluegrass		
Broadleaf weeds		
Annual sedge and kyllinga		

*Use higher use rates within the rate range for each target weed when a site has historically higher weed pressure. Also, use higher rates on fine textured soils and lower rates on medium and coarse textured soils.

**The maximum single application on turf is 200 lbs per acre (4.6 lbs/1000 sq ft). Do not exceed 400 lbs of INDAZIFLAM G per acre (9.2 lbs/1000 sq ft) in a 12-month period.

Split or multiple applications of INDAZIFLAM G can be made in a use season to extend the length of control of specific weeds, to control weeds germinating over an extended period, and to control other weeds emerging during the same or overlapping period. Depending on the weed pest (see table below), make follow-up applications within 30-90 days after the initial application. The total amount of INDAZIFLAM G applied in a calendar year must not exceed 400 lbs of product per acre (9.2 lbs/1000 sq ft).

SPLIT APPLICATION PROGRAM FOR INDAZIFLAM G

Use rate for Split Applications of INDAZIFLAM G

Target Weed	Rate Range for INDAZIFLAM G (initial application)		Rate Range for INDAZIFLAM G (follow-up application within 45-90 days)	
	In lbs/acre	In lbs/1000 sq ft	In lbs/acre	In lbs/1000 sq ft
Crabgrass	100-200	2.3-4.6	100-200	2.3-4.6
Goosegrass				
Annual Bluegrass				
Broadleaf weeds				
Annual sedge and kyllinga			125-200	2.9-4.6

MULTIPLE APPLICATION PROGRAM FOR INDAZIFLAM G

Use Rates for Multiple Applications of INDAZIFLAM G

Target Weed	Rate Range for INDAZIFLAM G (initial application)		Rate Range for INDAZIFLAM G (follow-up application within 30-45 days)	Rate Range for INDAZIFLAM G (follow-up application within 30-45 days)
Crabgrass Goosegrass Annual Bluegrass	In lbs/acre	100-133	100-133	100-133
	In lbs/1000 sq ft	2.3-3.1	2.3-3.1	2.3-3.1

CRABGRASS AND GOOSEGRASS CONTROL

INDAZIFLAM G provides pre-emergent control of crabgrass and goosegrass emerging from seed. For pre-emergent activity, INDAZIFLAM G is not effective until activated by rainfall or irrigation. INDAZIFLAM G does not control established crabgrass, perennial (continual growth) goosegrass or plants emerging from existing crowns. If goosegrass or crabgrass is evident at time of application, use a labeled post emergent herbicide for control of existing plants.

ANNUAL BLUEGRASS CONTROL

Make pre-emergent applications of INDAZIFLAM G between August and November depending on the germination of annual bluegrass in each geographical area. The optimum timing is dependent on peak annual bluegrass germination and local conditions in a particular year.

BROADLEAF WEED CONTROL

INDAZIFLAM G provides pre-emergence control of many annual broadleaf weeds. Control is affected by the size of the seed, and the depth of the seed within the soil profile. INDAZIFLAM G must be activated by rainfall or irrigation prior to germination. Large seeded broadleaf weeds or weeds germinating deeper than several inches in the soil profile may not be effectively controlled by INDAZIFLAM G.

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ANNUAL SEDGES AND ANNUAL KYLLINGA CONTROL

INDAZIFLAM G provides preemergence control of sedges and kyllinga emerging from seed. INDAZIFLAM G does not control established sedges and kyllinga (green kyllinga), or sedges emerging from tubers (nutlets) including yellow and purple nutsedge.

Weeds Controlled or Suppressed by INDAZIFLAM G**

Broadleaf Weeds	
American black nightshade	<i>Solanum americanum</i>
American Burnweed	<i>Erechtites hieracifolia</i>
Bittercress	<i>Cardamine sp.</i>
Black medic*	<i>Medicago lupulina</i>
Buckweat, wild	<i>Polygonum convolvulus</i>
California burclover	<i>Medicago polymorpha</i>
Canada thistle, Common	<i>Cirsium arvense</i>
Chickweed, Common	<i>Stellaria media</i>
Chickweed, Mouse-ear	<i>Cerastium vulgatum</i>
Clover, White	<i>Trifolium repens</i>
Corn speedwell	<i>Veronica arvensis</i>
Cudweed, Linear-leaf/purple	<i>Gnaphalium purpureum</i>
Curly dock	<i>Rumex crispus</i>
Dandelion, Cat's ear	<i>Hypochoeris radicata</i>
Dandelion, common	<i>Taraxacum officinale</i>
Eclipta	<i>Eclipta alba</i>
Evening primrose, Common	<i>Oenothera biennis</i>
Evening primrose, Cutleaf	<i>Oenothera laciniata</i>
False chamomile*	<i>Matricaria maritima</i>
Filaree, Redstem	<i>Erodium cicutarium</i>
Florida pusley	<i>Richardia scabra</i>
Groundsel, Common	<i>Senecio vulgaris</i>
Hairy fleabane	<i>Erigeron bonariensis</i>
Hairy nightshade	<i>Solanum sarrachoides</i>
Henbit	<i>Lamium amplexicaule</i>
Marestail	<i>Coryza canadensis</i>
Kochia	<i>Kochia scoparia</i>
Lambsquarters, Common	<i>Chenopodium album</i>
Lawn burweed	<i>Soliva sessilis</i>
Little mallow	<i>Malva parviflora</i>
London rocket*	<i>Sisymbrium irio</i>
Longstalked phyllanthus	<i>Phyllanthus tenellus</i>
Mulberry weed	<i>Fatoua villosa</i>
Mustard, Black*	<i>Brassica nigra</i>
Mustard, Wild	<i>Sinapis arvensis</i>
Parthenium	<i>Parthenium hysterophorus</i>
Pigweed, Prostrate	<i>Amaranthus blitoides</i>
Pigweed, Redroot	<i>Amaranthus retroflexus</i>
Plantain, Buckhorn	<i>Plantago lanceolata</i>
Plantain, Paleseed	<i>Plantago virginica</i>

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Prostrate knotweed	<i>Polygonum aviculare</i>
Prostrate spurge	<i>Euphorbia maculata</i>
Puncturevine	<i>Tribulus terrestris</i>
Purslane, Common	<i>Portulaca oleracea</i>
Ragweed, Common*	<i>Ambrosia artemisiifolia</i>
Spurge, Spotted	<i>Euphorbia maculata</i>
Tassel flower	<i>Emilia sonchifolia</i>
Redmaids	<i>Calandrinia caulescens</i>
Sesbania, Hemp*	<i>Sesbania exaltata</i>
Shepherd's-purse	<i>Capsella bursa-pastoris</i>
Sida, Prickly/Teaweed*	<i>Sida spinosa</i>
Southern brassbuttons*	<i>Cotula australis</i>
Sowthistle, Annual	<i>Sonchus oleraceus</i>
Sunflower*, Common	<i>Helianthus annuus</i>
Swinecress	<i>Coronopus didymus</i>
Tropic ageratum	<i>Ageratum conyzoides</i>
Velvetleaf*	<i>Abutilon theophrasti</i>
Vetch, Purple*	<i>Vicia benghalensis</i>
Wild carrot*	<i>Daucus carota</i>
Willowherb	<i>Epilobium brachycarpum</i>
Woodsorrel, Yellow*	<i>Oxalis stricta</i>
Woodsorrel/Oxalis*	<i>Oxalis sp</i>

GRASSES, MONOCOTS, AND SEDGES

Annual bluegrass/ 'Poa'	<i>Poa annua</i>
Annual kylinga	<i>Cyperus sesquiflorus</i>
Barnyardgrass, Common	<i>Echinochloa crus-galli</i>
Cheatgrass	<i>Bromus secalinus</i>
Crabgrass	<i>Digitaria sp</i>
Crabgrass, Henry	<i>Digitaria ciliaris</i>
Crabgrass, Large/Hairy	<i>Digitaria sanguinalis</i>
Crabgrass, Smooth	<i>Digitaria ischaemum</i>
Doveweed	<i>Murdannia nudiflora</i>
Foxtail brome	<i>Bromus rubens</i>
Foxtail, Giant	<i>Setaria faberi</i>
Foxtail, Green	<i>Setaria viridis</i>
Foxtail, Yellow	<i>Pennisetum glaucum</i>
Goosegrass	<i>Eleusine indica</i>
Guineagrass	<i>Panicum maximum</i>
Kylinga, Fragrant/Annual	<i>Kylinga odorata</i>
Mouse barley	<i>Hordeum murinum</i>
Nutsedge, Purple*	<i>Cyperus rotundus</i>
Nutsedge, Yellow*	<i>Cyperus esculentus</i>
Rice flatsedge	<i>Cyperus iria</i>
Ryegrass, Italian	<i>Lolium multiflorum</i>
Ryegrass, Perennial	<i>Lolium perenne</i>
Sandbur	<i>Cenchrus longispinus</i>

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Sedge, Annual***	<i>Cyperus spp.</i>
Tufted lovegrass	<i>Eragrostis pectinacea</i>

* Weeds suppressed by **INDAZIFLAM G**

Higher labeled rates should be used if weed pressure is historically high or longer residual control is desired (See Use Rates in the **INDAZIFLAM G chart). The rate chosen should not exceed the tolerance for an individual turf type. Weed control can also be achieved with multiple applications of **INDAZIFLAM G**. Do not exceed a total of 400 lbs of product per acre per year (9.2 lbs/1000 sq ft/year) with multiple applications.

*****INDAZIFLAM G** only controls sedges and kyllinga emerging from seed. It does not control perennial sedge emerging from nutlets or perennial forms of kyllinga.

SEEDING, OVERSEEDING, RE-SEEDING, SPRIGGING AND SODDING

SEEDING, RE-SEEDING, AND OVERSEEDING

Timing of seeding, re-seeding, overseeding, sprigging, and sodding turf relative to an application of **INDAZIFLAM G** needs to be tracked carefully. **INDAZIFLAM G** can inhibit root development, as well as the emergence of seed. Newly emerged seedlings may be damaged and establishment of sod may be affected if **INDAZIFLAM G** is applied to turf that is not well established.

Application of INDAZIFLAM G prior to overseeding bermudagrass with perennial ryegrass or reseeding into warm season turf

INDAZIFLAM G may be used to control weeds in bermudagrass prior to overseeding with a cool season grass or re-seeding seeded cultivars of bermudagrass, provided that the interval between application and seeding is appropriate (See **INTERVAL BETWEEN APPLICATION OF INDAZIFLAM G AND SEEDING OR OVERSEEDING** table below.) Overseeding and re-seeding intervals are affected by the rate of **INDAZIFLAM G** applied, rainfall in a given year and soil texture. Applications made sooner than the suggested intervals may decrease the establishment of the new seedlings and reduce turf coverage.

INTERVAL BETWEEN APPLICATION OF INDAZIFLAM G AND SEEDING OR OVERSEEDING	
Rate Range for INDAZIFLAM G	Minimum Overseeding Interval
100-125 lbs/acre 2.3-2.9 lbs/1000 sq ft	10 months
125-200 lbs/acre 2.9-4.6 lbs/1000 sq ft	12 months

WARM SEASON GRASSES ESTABLISHED WITH SPRIGS

INDAZIFLAM G may be applied to sprigged warm season turf. The sprigs need to be well rooted prior to application. Apply the herbicide no sooner than 16 months after sprigging to allow for good stand establishment. Prior to application, check rooting to make sure new roots are developing. If roots are not growing, delay application of **INDAZIFLAM G**.

SODDING WARM SEASON GRASSES

Delay sodding into bare ground or turf treated with **INDAZIFLAM G** until 6 months after application. Sodding before 6 months may inhibit stand establishment and reduce turf quality. For maximum establishment of sod, follow the directions for the use of activated charcoal prior to laying sod.

Delay the application of **INDAZIFLAM G** if sod is not established. Sod needs to be established at least 3 months prior to an application of **INDAZIFLAM G**.

ORNAMENTALS

INDAZIFLAM G may be applied for pre-emergent weed control in landscape ornamentals, production ornamentals in outdoor nurseries, shadehouses, and hoopouses. Apply **INDAZIFLAM G** prior to weed seed germination to dormant or actively growing ornamentals as listed in the table below. Apply **INDAZIFLAM G** to established ornamentals. If the grower is uncertain about ornamental establishment after transplanting, wait 2 months before applying **INDAZIFLAM G**.

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USE RESTRICTIONS FOR INDAZIFLAM G ON LANDSCAPE AND PRODUCTION ORNAMENTALS

- Do not exceed the maximum single application rates specified under each ornamental use
- Do not exceed a total of 400 lbs of **INDAZIFLAM G** per acre (9.2 lbs/1000 sq ft) in a 12-month period.
- Do not allow granules applied "over-the-top" to remain in contact with foliage. **INDAZIFLAM G** may cause localized injury to the foliage, especially young leaf tissue. If the granules should be in contact with the foliage after an application, wash off affected foliage.
- Do not use **INDAZIFLAM G** on ornamentals where granules may become trapped in developing leaves or in meristematic areas (e.g. whorls of grasses and perennials such as hosta).
- Do not use **INDAZIFLAM G** around bedding plants (including annuals and herbaceous plants not specified, or not listed as tolerant on this label).
- Do not use **INDAZIFLAM G** in landscape beds within 12 months prior to seeding or 3 months prior to planting.
- Do not use **INDAZIFLAM G** around non-bearing fruit trees or vines unless they are at least 1 year old (citrus), 5 years old (grape vines) and 3 years old (all others). Non-bearing trees are defined as trees that will not bear fruit until at least 1 year after treatment.
- Do not use **INDAZIFLAM G** within the dripline of bearing fruit and nut trees.
- Do not mix **INDAZIFLAM G** into the soil or potting mix. Mixing **INDAZIFLAM G** into the potting mix may inhibit developing roots.
- Do not cultivate or disturb the soil surface after application of **INDAZIFLAM G** as this may reduce weed control.
- If transplanting mature plants listed as tolerant on this label into soil treated with **INDAZIFLAM G** within the preceding 12 months, replace existing soil around roots to minimize effects on plant establishment.
- Do not use **INDAZIFLAM G** on ornamentals being grown in a greenhouse.
- Do not use **INDAZIFLAM G** on nursery seedbeds, rooted cuttings, or young plants in liners.
- Do not apply **INDAZIFLAM G** to plants growing in containers less than 6 inches wide.
- Do not apply **INDAZIFLAM G** to plants less than 5 inches in height.
- Do not apply **INDAZIFLAM G** to ornamental bulbs in production fields, landscapes, commercial fields, or residential sites after they have emerged.
- Do not apply **INDAZIFLAM G** to herbaceous perennials on this label (e.g. daylily or hosta) after they have emerged.
- Do not apply **INDAZIFLAM G** over-the-top of a deciduous ornamental at bud break.
- Do not apply **INDAZIFLAM G** to unhealed budded grafts or other types of grafts.
- Do not apply **INDAZIFLAM G** to drainage ditches

USE OF INDAZIFLAM G ON ORNAMENTALS IN COARSE AND SANDY SOILS

Soil conditions can affect the tolerance of ornamentals to **INDAZIFLAM G**. Coarse or sandy soils may allow for downward movement of **INDAZIFLAM G** into the root zone and cause significant root damage and phytotoxicity. Coarse soils, for example, may include significant quantities of sand, gravel, decomposed granite, and ground cinders. Prior to application of **INDAZIFLAM G** on these soils, confirm soil texture with a soil test. Ornamentals grown in soil exceeding 80% sand or 20% gravel may be at risk. If **INDAZIFLAM G** is to be applied in these soils, evaluate tolerance of a few plants of each ornamental in **INDAZIFLAM G** treated soil for 2-3 months prior to a large scale application.

SYMPTOMS OF INDAZIFLAM G INJURY ON ORNAMENTALS

INDAZIFLAM G may injure sensitive ornamentals by damaging roots or leaves. Plants damaged by root uptake will appear stunted, deformed, and may not recover. If granules of **INDAZIFLAM G** are allowed to remain in contact with treated plants, leaf symptoms may appear as lesions, discoloration, or curling. Symptoms may appear within 2-4 weeks after application. Newly formed leaves may be undamaged. It is essential that the user assess the severity of any symptoms on cultivars not listed on this label, before proceeding with large-scale applications of **INDAZIFLAM G**.

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LANDSCAPE ORNAMENTAL USES

INDAZIFLAM G may be used in residential, commercial, as well as federal, state, and local plantings of ornamentals for pre-emergent weed control. **INDAZIFLAM G** should be applied only to established (rooted) plants and not to newly rooted cuttings/or seedlings. To avoid root damage, apply **INDAZIFLAM G** around transplants when the soil has firmly settled around the root area. Light irrigation or rainfall will help to settle the soil and seal surface cracks. For best results, remove existing mulch and replace mulch after an application of **INDAZIFLAM G**. If **INDAZIFLAM G** should contact foliage, brush or wash off to avoid damage. Care must be taken not to get granules on sensitive turf next to landscape beds to avoid possible turf injury. Tender annuals and herbaceous perennials may be sensitive to **INDAZIFLAM G**. Applications of **INDAZIFLAM G** should only be made to ornamentals listed on this label.

AMOUNT TO USE: Apply **INDAZIFLAM G** at 100-200 lbs of product per acre (2.3-4.6 lbs/1000 sq ft) around ornamentals.

To activate **INDAZIFLAM G** for maximum herbicidal benefit, irrigate the area treated with **INDAZIFLAM G** to move the herbicide into the soil within several days after application. With dry soil, use 0.25 inches of irrigation water, and with soil at or greater than field capacity, the amount of irrigation water should be reduced. In either case, do not create conditions that cause visible run-off of irrigation water. Adequate rainfall following an application will negate the need for irrigation.

A subsequent application of **INDAZIFLAM G** can be made within 90 days after the initial application to extend weed control provided that the total **INDAZIFLAM G** applied does not exceed 400 lbs per acre (9.2 lbs/1000 sq ft) in a 12 month period.

Application of **INDAZIFLAM G** to heavily mulched landscape beds may result in reduced weed control. **INDAZIFLAM G** may be applied to lightly mulched area after the mulch has settled. For best results remove existing mulch and replace mulch after an application of **INDAZIFLAM G**.

PRODUCTION ORNAMENTAL USES

IN-GROUND

INDAZIFLAM G provides 3-8 months of weed control with a single application. The exact length of control depends on many environmental factors as well as the weeds to be controlled and weed pressure. **INDAZIFLAM G** may be applied to the soil surface around established field or container grown deciduous and evergreen plants. To avoid root damage, do not apply **INDAZIFLAM G** until 2 months after transplanting bare rooted stock, and make sure that soil is well settled around the root area. If transplanting potted plants or balled and burlapped ornamental stock, apply **INDAZIFLAM G** after the soil is well settled. Overhead irrigation or rainfall will help to settle the soil and seal surface cracks.

Application of **INDAZIFLAM G** can be made around dormant or actively growing plants. If applied after dormancy, care should be taken not to contact expanding buds or new leaves. Do not apply to trees that are less than one year old or have been transplanted less than one year, unless completely protected by non-porous wraps, grow tubes, waxed protectors or other forms of protection to young foliage and/or bark. Applications of **INDAZIFLAM G** should only be made to ornamentals listed on this label. **INDAZIFLAM G** should be applied to soil free of weeds, debris, and soil clods for optimum efficacy. Herbicidal efficacy may be reduced if soil is disturbed after application. A follow-up application may be made if the total applied per year is less than 400 lbs of **INDAZIFLAM G** per acre (9.2 lbs/1000 sq ft).

Planting into soil treated with **INDAZIFLAM G** should be delayed for 3 months to allow for dissipation of the product.

AMOUNT TO USE: Apply **INDAZIFLAM G** to the soil around ornamentals at 100-200 lbs of **INDAZIFLAM G** per acre (2.3-4.6 lbs/1000 sq ft).

CONTAINER

INDAZIFLAM G may be applied as a single or in sequential applications over-the-top to container-grown, deciduous, and evergreen trees and shrubs with an established root system. Application of **INDAZIFLAM G** to deciduous foliage or green bark may result in unacceptable injury. Over-the-top applications should be made to dry foliage. Applications made to wet foliage may cause the product to stick to the foliage and lead to localized injury. Ornamentals should be established in the container for at least 1 weeks to allow the soil to settle and plants should be at least 5 inches tall prior to applying **INDAZIFLAM G**. Plants transplanted into containers must be done using weed free soil. Old, exposed soil mixes risk weed seed to germinate deeper in the pot. **INDAZIFLAM G** will not prevent shoot emergence from the deeper weeds.

Remove granules from the leaves after application. Examine plants to make sure that granules that may have adhered to foliage have been removed. If granules remain on the leaves, plant injury may occur. If irrigating, do not create conditions that cause visible run-off of irrigation water.

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APPLICATION OF INDAZIFLAM G ON HERBACEOUS PLANTS

INDAZIFLAM G may injure many annuals, perennials, and foliage plants. The product should not be applied to these plants unless they are listed on this label as tolerant.

APPLICATION of INDAZIFLAM G TO ORNAMENTALS IN INDIVIDUAL CONTAINERS

Make sure that granules are evenly distributed on the soil surface.

For example, to apply INDAZIFLAM G at a use rate of 200 lbs of product per acre (4.6 lbs/1000 sq ft), spread 0.34 grams into a 6-inch pot.

ORNAMENTALS AND THEIR CULTIVARS TOLERANT TO INDAZIFLAM G

Tolerant ornamentals and their cultivars are listed in the following table. If a cultivar to be treated is not listed on this label, treat several plants of the cultivar at the single maximum use rate (200 lbs per acre (4.6 lbs/1000 sq ft)) and evaluate 1-2 months later for possible injury and acceptable tolerance. The user assumes responsibility for application on plants not listed in this table.

Common Name	Scientific Name	Cultivar	Container/Field Grown/Remarks
Abelia	<i>Abelia grandiflora</i>	Little Richard, Edward Gaucher	C
Arborvitae	<i>Thuja sp.</i>	Green Giant	C, FG
Asparagus fern	<i>Asparagus plumosus</i>		C
Azalea	<i>Rhododendron sp.</i>	Girard's Rose	C, FG
		Fashion	
		VF 14	C, FG
		Golden Torch	C, FG
		Judge Solomon	C, FG
Azalea, Encore	<i>Rhododendron sp.</i>	Autumn Debutante	C, FG
Barberry	<i>Berberis vulgaris</i>	Rosy Glow	C, FG
		Crimson Pygmy	C, FG
Beautybush	<i>Kolkwitzia amabilis</i>		C
Big bluestem	<i>Andropogon gerardii</i>		C
Black Hawthorn	<i>Crataegus douglasii</i>		C, FG
Bleeding heart vine	<i>Clerodendrum thomsoniae</i>	Bleeding Heart	C
Bluebird	<i>Caryopteris x clandonensis</i>	Dark Knight	C
Bottlebrush, Crimson	<i>Callistemon citrinus</i>		
Bougainvillea	<i>Bougainvillea sp.</i>	Barbara Karst Double Red	C, FG
Boxwood	<i>Buxus microphylla</i>	Green Beauty Baby Gem	C
Butterfly bush	<i>Buddleia</i>	Nanho Blue	C
Camellia, Japanese	<i>Camellia japonica</i>	Margaret Heathcliff Pink	C
Camellia, Little leaf	<i>Camellia sasanqua</i>	Cleopatra Pink	C
Cedar, Atlantic white	<i>Chamaecyparis thyoides</i>		C
Cedar, Japanese	<i>Cryptomeria japonica</i>	Black Dragon Yoshino	C
Chaste Tree	<i>Vitex agnus-castus</i>	Abbeville Blue	C, FG
Cotoneaster	<i>Cotoneaster</i>	Coral Beauty	C
Crape myrtle	<i>Lagerstroemia indica</i>	Sarah's Favorite, Pocomoke Pink	C, FG C, FG
		Burgundy Cotton	C, FG
		Rose Red	C, FG
		Siren Red	C, FG
	<i>Lagerstroemia indica x fauriei</i>	Natchez	C, FG
	<i>Lagerstroemia indica x fauriei</i>	Tuscarora	C, FG
Cypress, false	<i>Chamaecyparis sp.</i>	Gold Mops	C
		Gold Thread	C
Cypress, Leyland	<i>Cupressus x leylandii</i>		
Cypress, mediterranean	<i>Cupressus sempervirens</i>		FG
Daphne	<i>Daphne caucasica</i>	Summer Ice	C
Daylily (before unfurling)	<i>Hemerocallis sp.</i>	Green Flutter	FG
Deutzia	<i>Deutzia gracilis</i>	Nikko	C, FG
Eastern Ninebark	<i>Physocarpus opulifolius</i>	Coppertina	C, FG

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		Darts Gold	C, FG
Florida pipestem	<i>Leucothoe populifolia</i>		C
Forsythia	<i>Forsythia</i>	Lynwood Gold	C
	<i>Forsythia x intermedia</i>	Golden Bell	
Gardenia	<i>Gardenia jasminoides</i>	Radicans	C
Gardenia		Mystery, Frostproof	C C
Gaura	<i>Gaura lindheimeri</i>	Pink Fountain	C
Gold-Dust Plant	<i>Aucuba japonica</i>	Gold Dust	C
Hardy kiwi	<i>Actinidia arguta</i>	Anna	C
Hawaiian snowbush	<i>Breynia disticha</i>		C
Hibiscus	<i>Hibiscus paramutabilis x syriacus</i>	Lohengrin	C, FG
Hibiscus, Chinese	<i>Hibiscus rosa-sinensis</i>	San Diego Red, President Red	C
Holly, Dwarf Burford	<i>Ilex cornuta</i>	Needlepoint, Burdordii Nana	C
Holly, Inkberry	<i>Ilex glabra</i>	Compacta	C, FG
Holly, Meserveae	<i>Ilex meserveae</i>	Blue Princess	C
Holly, Sky pencil	<i>Ilex crenata</i>	Sky Pencil	C
Honeysuckle, European	<i>Lonicera periclymenum</i>	Harlequin	C, FG
Hosta (before emergence)	<i>Host sp</i>		C, Before emergence
Inkberry	<i>Ilex glabra</i>	Densa	
Indian hawthorn	<i>Raphiolepis indica</i>	Pink Lady	C
Japanese cleyera	<i>Ternstroemia gymnanthera</i>		C
Japanese mock-orange	<i>Pittosporum tobira</i>	Variegata	C
Japanese Plum Yew	<i>Cephalotaxus harringtonia</i>	Fastigiata	C, FG
Japanese Yew	<i>Taxus x Media</i>	Densiformis	C, FG
Jasmine, Asiatic/Yellow Star	<i>Trachelospermum asiaticum</i>	Minima	C
Jasmine, Winter	<i>Jasminum nudiflorum</i>		C
Juniper, Bar Harbour	<i>Juniperus horizontalis</i>	Bar Harbour	C
Juniper, Blue Pacific	<i>Juniperus conferta</i>	Blue Pacific	C
Juniper, Blue Rug	<i>Juniperus horizontalis</i>	Blue Rug	C
Juniper, Blue Star	<i>Juniperus squamata</i>	Blue Star	C, FG
Juniper	<i>Juniperus chinensis</i>	Sea Green	
Lantana	<i>Lantana camara</i>	Landmark Sunrise Rose	C
Lilac	<i>Syringa x 'Penda'</i>	Bloomerang	C
Lilac, Manchurian	<i>Syringa 'pubescens' subsp. Patula</i>	Miss Kim	C, FG
Lily of the valley shrub	<i>Pieris Japanica var. Yak</i>	Cavatine	C, FG
	<i>Pieris Japanica</i>	Mountain Fire,	
Loropetalum	<i>Loropetalum chinensis</i>	Burgundy, Ruby, Plum Purple, Rubra	C
Magnolia, Loebner	<i>Magnolia x loebneria</i>	Leonard Messel	C, FG
Magnolia, Star	<i>Magnolia stellata</i>	Waterlilly	C, FG
Maple, Japanese	<i>Acer palmatum</i>	Bloodgood	C, FG
Maple, Red	<i>Acer rubrum</i>	Frank's Red	FG
Mealycup sage	<i>Salvia farinacea</i>	Victoria white	C
Nandina	<i>Nandina domestica</i>	Firepower	C
Oleander	<i>Nerium oleander</i>	Cardinal Red	C
Passionvine	<i>Passiflora caerulea</i>	Blue	C
Periwinkle	<i>Vinca minor</i>		C
Periwinkle, Madagascar	<i>Catharathus Roseus</i>	Titan Lilac	C
Photinia	<i>Photinia x fraseri</i>	Red Tip	C, FG
Pine, Loblolly	<i>Pinus taeda</i>		C, FG
Pine, Mondell	<i>Pinus eldarica</i>		C, FG
Pine, White	<i>Pinus strobus</i>		C, FG
Pittosporum	<i>Pittosporum tobira</i>	Variegata	C
Podocarpus	<i>Podocarpus macrophyllus</i>		C
Potentilla, Shrubby Cinquefoil	<i>Potentilla fruticosa</i>	Goldfinger	C
Privet, Vicary Golden	<i>Ligustrum x vicary</i>	Vicary Golden	
			C, FG
Pyracantha/Firethorn	<i>Pyracantha coccinea</i>	Red Cushion	C, FG
Red Cedar, eastern	<i>Juniperus virginiana</i>	Idyllwild	C, FG

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Rose	<i>Rosa sp.</i>	Pink Knockout®, Knockout® Louis Philippe	C, FG
Rose, Virginia	<i>Rosa virginiana</i>		C
Rose mallow	<i>Hibiscus moscheutos</i>		C
Rose of Sharon	<i>Hibiscus syriacus</i>	Pink Heart	C
Russian olive	<i>Elaeagnus angustifolia</i>		C
Scotchbroom	<i>Cytisus scoparius</i>	Burkwoodii	C, FG
Serviceberry	<i>Amelanchier canadensis</i>		C, FG
Smoketree	<i>Cotinus coggygria</i>	Royal Purple	C, FG
Snowberry, common	<i>Sumphoricarpus albus</i>		C
Sweet olive, fragrant tea olive	<i>Osmanthus fragrans</i>		C
Switchgrass	<i>Panicum virgatum</i>	Shenandoah	C
Thin-fruit sedge	<i>Carex flaccosperma</i>		C
Verbena	<i>Verbena canadensis</i>	Homestead Purple	C
Viburnum, Burkwood	<i>Viburnum x burkwoodii</i>		C
Viburnum, Popcorn	<i>Viburnum plicatum</i>	Popcorn	C
Virginia sweetspire	<i>Itea virginica</i>		C
Wax myrtle, Southern	<i>Myrica cerifera (w/woody growth)</i>		C, Mature only
Witchalder, dwarf	<i>Fothergilla gardenii</i>		C
Yellow Anise	<i>Illicium parviflorum</i>		C

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Do not use INDAZIFLAM G on any of these plants or their cultivars; 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 macrophylla</i>
Ixora	<i>Ixora coccinea</i>
Japanese Rose	<i>Kerria japonica</i>
Lavender, Munstead	<i>Lavandula angustifolia</i>
Lilyturf	<i>Liriope sp.</i>
Muhlygrass	<i>Muhlenbergia capillaris</i>
Mandevilla	<i>Mandevilla sp.</i>
Mint	<i>Mentha sp.</i>
Mondo grass	<i>Ophiopogon japonicus</i>
Plumbago	<i>Plumbago auriculata</i>
Privet, Japanese	<i>Ligustrum japonicum</i>
Sage	<i>Salvia spp</i>
Spiraea	<i>Spiraea japonica</i>
Sweet viburnum	<i>Viburnum odoratissimum</i>
Pepperbush, Summersweet	<i>Clethra alnifolia</i>
Tickseed, Dwarf mouse-ear	<i>Coreopsis auriculata</i>

NON-SELECTIVE USES

HARDSCAPES

INDAZIFLAM G may be used to maintain bare ground in non-crop areas. These include but are not limited to gravel, rocky or sandy areas found in desert climates and non-paved paths on golf courses and in residential areas. All weeds and debris should be removed from the area to be treated for optimum weed control. Irrigation or rainfall after application will provide maximum weed control. Apply 200-400 lbs of INDAZIFLAM G per acre (4.6-9.2 lbs/1000 sq ft) for these uses.

Observe all restrictions and tolerances for applications of INDAZIFLAM G around ornamentals listed on this label.

ORNAMENTAL PRODUCTION FACILITIES

INDAZIFLAM G may be used in ornamental production facilities on floors of greenhouses, hoopouses, 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 200lbs of INDAZIFLAM G per acre (4.6 lbs/1000 sq ft) for these uses.

If weeds are present at the time of application, remove weeds or use a post emergent herbicide observing all use restrictions. Water in INDAZIFLAM G after application and allow treated area to dry prior to introducing plants. In production nurseries, containers or plants can be moved onto the treated ground bed area after it has been irrigated to activate the herbicide and the treated surface is allowed to dry. Apply 200 lbs of INDAZIFLAM G per acre (4.6 lbs/1000 sq ft) for these uses.

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Do not apply **INDAZIFLAM G** to areas where water is present or where water can potentially move **INDAZIFLAM G** off the application area.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE

Store in original container only. Store in a manner to prevent cross-contamination of other pesticides, fertilizer, food, and feed. Do not store in or around the home. Store in a dry, locked storage area.

PESTICIDE DISPOSAL

Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

CONTAINER HANDLING

Non-refillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Offer for recycling, if available. Dispose of in a sanitary landfill, or by incineration; or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

CONDITIONS: The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Ineffectiveness, plant injury, other property damage, as well as other unintended consequences may result because of factors beyond the control of Bayer CropScience LP. Those factors include, but are not limited to, weather conditions, presence of other materials or the manner of use or application. All such risks shall be assumed by the user or buyer.

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PRODUCED FOR



Bayer Environmental Science

A Division of Bayer CropScience, LP
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INDAZIFLAM G Herbicide (PENDING) 05/05/2014

[Optional Marketing Claims:]

Pictures:

