GROUP 29 HERBICIDE

# **SPECTICLE**®

# Herbicide

Preemergence Herbicide for the Control of Grasses, Annual Sedges, and Broadleaf Weeds in Warm Season Turfgrass, Landscape Ornamentals, Conifers, Hardscapes, and Natural Areas

DO NOT USE FOR THE MANUFACTURING OF FERTILIZER

#### ACTIVE INGREDIENT:

Contains 0.0112 lbs of INDAZIFLAM in a 50 lb bag

#### KEEP OUT OF REACH OF CHILDREN

See Panel for First Aid Instructions and for Complete Precautionary

Statements and Directions for Use.

For <u>MEDICAL</u> and <u>TRANSPORTATION</u> Emergencies <u>ONLY</u> Call 24 Hours A Day 1-800-424-9300 For <u>PRODUCT USE</u> Information Call 1-800-331-2867

FIRST AID		
If swallowed:	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 vamiting unless told to do so by a poison control center or doctor.     Do not give anything by mount to an unconscious person.	
If in eyes:	<ul> <li>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.</li> <li>Call a poison control centre or doctor for treatment advice.</li> </ul>	
If on skin or clothing:	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:	Move person to fresh air.     If person is not breathing, call 91 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.     Call a poison control center or doctor for further treatment advice.	

#### PRECAUTIONARY STATE ONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear long-sleeved shirt and long pants, and shoes plus socks.
Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPI

#### ENGINEERING CONTROLS STATEMENTS: When handlers use closed systems or enclosed on

posticides (40 CFR 170,240 (d) (4-6)), the handler PPE requirements may be reduced or modified as specified in the WPS.

#### User Safety Recommendations ng, drinking, chewing gum, using tobacco or using the toilet. Remove clothing and PPE immediately if pes

#### ENVIRONMENTAL HAZARDS This product is toxic to fish, cause

This product It took to file, quaptic inventebrates, and plants. Do not apply directly to water, or to areas where surface water is present or to intentical area below the mean variaments. Do not committee water when disposing of equipment instance or waterwise. This product is present or to intentical area below the mean variations for use to exist another. A level well manninged very selective buffer strip between exercise this product is applied and surface water producting applications when mindful is forecasted to occur within 4 bours. The own when mindful is forecasted to occur within 4 bours.

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

#### DIRECTIONS FOR USE 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 Title consult the property responsible for participle requirements.

#### AGRICULTURAL USE REQUIREMENT

Use mit product day in aboutcomes with its balling days with the worker intellection standard, as user left in the standard intellection of the standard intellec

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

SKU# 84056146 84104817E 221216AV1 Net Contents: 50 Pounds





#### 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.

## PRODUCT INFORMATION

Specticle G is a selective, preemergence alkylazine herbicide. Specticle G provides extended residual control of many annual grasses including crabgrass, goosegrass, and annual bluegrass, las well as annual sedges, and many broadleaf weeds. Use sites include turf; landscape ornamentals including residential, commercial, municipal, roadside, and natural areas; non-bearing fruit and nut trees in residential plantings; and hardscapes.

Use Specticle G on established warm season turf in areas including golf courses (roughs and fairways), sod farms, sports fields, residential and commercial lawns, parks, and cemeteries. Specticle 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 or at bud break of sensitive plants. Specticle G does not control plants emerging from tubers, rhizomes, bulbs, corms, and

rootstocks. Specticle G needs to be activated by rainfall or irrigation prior to weed germination for most effective preemergence control.

Specticle G is a highly active herbicide that provides effective weed control when applied to the soil around many labeled ornamentals. Specticle G may also be used over-the-top of labeled ornamentals with adequate precautions. Specticle G may damage sensitive plants, if granules are allowed to remain in contact with foliage. Carefully apply Specticle G in strict accordance to

Specticle 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 Specticle G per acre (4.6 lbs/1000 sq ft) in a single application for turf and ornamental applications.
- Do not exceed 400 lbs of Specticle 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.
- Specticle G is not for sale, distribution, or use in Nassau county, or Suffolk county, in New York State.
- For ground application only.

#### DEACTIVATING SPECTICLE G

Activated charcoal has been shown to deactivate Specticle G if applied within several days of an application. Follow directions for the amount of charcoal to apply on the label of the activated

#### APPLICATION INFORMATION

Apply Specticle 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. Uniform application using properly calibrated equipment is essential for satisfactory weed control. Avoid skips for the best weed control and avoid overlapping application patterns to avoid plant injury. For over-the-top applications, remove granules from leaf surfaces with a blower or irrigation.

#### SOIL MOISTURE, IRRIGATION, AND RAINFALL AFTER APPLICATION

To activate Specticle G, irrigate lightly after application to move the herbicide into the soil. Rainfall within several days after application will negate the need to irrigate. Avoid application to saturated soil. Postpone application if rainfall that may cause visible run-off is anticipated.

#### **EQUIPMENT CLEANUP PROCEDURE**

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

#### RESISTANCE MANAGEMENT

Indaziflam, the active ingredient in Specticle G, is a Group 29 herbicide (Cellulose Biosynthesis Inhibitor) based on the mechanism-of-action classification system of the Weed Science Society of America. No known resistance to Specticle G exists, however, continual use of any herbicide with the same mechanism-of-action may lead to selection of resistant weed populations and reduction in efficacy. To manage the development and spread of resistant weed populations, rotate herbicides with different mechanisms of action. Use in conjunction with sound cultural practices which minimize weed pressure and maximize weed control. Specticle G has been shown to help manage weeds that have developed resistance to other herbicides including: glycines (glyphosate), triazines, ALS-inhibitors, and dinitroanaline (DNA) herbicides. The decision to use any particular herbicide should be based on an IPM program and all cultural practices and other pesticides in use. Contact a Environmental Science U.S., LLC representative for the latest information on resistance management guidelines for this product. information on resistance management guidelines for this product

#### DIRECTIONS FOR USE OF SPECTICLE G ON TURF USE RESTRICTIONS FOR SPECTICLE G ON TURF

- Do not apply Specticle G to newly seeded turf.
  Do not apply to golf course greens, tees, or collars.
- Do not apply to slopes immediately above golf course greens.
- Do not apply to weakened turf that requires significant fill-in or recovery.

#### USE OF SPECTICLE G IN COARSE AND SANDY SOILS

Soil conditions can affect the tolerance of turf to Specticle G. Coarse or sandy soils may allow for downward movement of Specticle 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 Specticle 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 split applications of Specticle G may reduce the risk on these soils. Refer to use rates for

the 'Split Application Programs' section of this label. If Specticle G is to be applied in these soils, evaluate turf tolerance in treated soils prior to a large

USE OF SPECTICLE G ON WEAKENED OR STRESSED TURF
Specticle G controls weeds by inhibiting root development. Newly developing roots of desirable turf may be affected. Turf under stresses such as winterkill, spring dead spot, transitioning lyegrass, Bermudagrass spring root decline, soil compaction, foliar and root diseases, nematodes, salt accumulation, shade, excessive foot or equipment traffic, newly verticut turf, and drought should be carefully evaluated before treatment. Application of Specticle G to turf in these

situations may delay turf recovery.

Application of Specticle 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.

#### TURF TOLERANCE

Turf tolerance to Specticle G is acceptable on all labelled turf types and cultivars. Due to the large number of types and cultivars, it is impossible to test every one for tolerance to Specticle G. Neither the Manufacturer nor the Seller has determined whether or not Specticle G can be used safely on turf types and cultivars not specified on this label.

Before using on turf cultivars that are not listed on this label, the applicator must confirm tolerance by testing labelled rates on a small area prior to widespread use

Tolerant Turfgrasses

- Bermudagrass\* (Cynodon dactylon) (and hybrids)-Baby, Celebration, Common, Floratex, Tifsport, Tifton 10, Tifway 419, Princess, Vamont, Riviera, Yukon Zoysiagrass (Zoysia spp.)-Cavalier, Crowne, DeAnza, El Toro, Empire, Jamar, Meyer, Palisades,

Centipedegrass\* (Eremochloa ophiuroides)- Common, Tifblair
St. Augustinegrass\* (Stenotaphrum secundatum)-Captiva, Floratam, Floratine, Palmetto, Raleigh Buffalograss (Buchloe dactyloides)

Bahiagrass (Paspalum notatum)

Seashore paspalum (Paspalum vaginatum)
Application of Specticle G may temporarily inhibit the rooting of turfgrass stolons.
Common or off-type Bermudagrass may show increased sensitivity to Specticle G compared

Specticle G may cause unacceptable injury to some turfgrasses. **Do not use** on the following turfgrasses or mixtures containing any of these grasses, unless thinning or removal is desired. For use on grasses in natural areas, see Natural Areas section on this label.

- 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)
- Bermudagrass (Cynodon dactylon) Common

Maximum Single Application Rates for Specticle G on Warm Season Grasses

Turf Type	Specticle G Rate (lbs/acre)	Specticle 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
Seashore Paspalum	125	2.9

#### PRECAUTIONS FOR USE OF SPECTICLE G NEAR SENSITIVE GRASSES

Specticle G applied uphill to sensitive grasses (such as overseeded ryegrass, roughstalk bluegrass (*Poa trivialis*), and bentgrass) can move and cause injury and stand reduction to adjacent sensitive grasses. Allow turf to dry before allowing foot traffic or equipment through treated areas near sensitive grasses. For Lawn Care applications, Specticle G may be applied where labeled warm season grasses are adjacent to sensitive grasses such as tall fescue, Kentucky bluegrass, and perennial ryegrass. The applicator, however, must take care not to apply Specticle G directly to sensitive grasses.

If Specticle G makes contact with sensitive grasses, refer to the "DEACTIVATING Specticle G" section of this label.

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

Apply Specticle G in a single or split application program. The maximum single application is 200 lbs per acre (4.6 lbs/1000 sq ft). The total amount of Specticle G applied in a 12-month period must not exceed 400 lbs per acre (9.2 lbs/1000 sq ft).

#### SINGLE APPLICATION PROGRAM

Target Weed	Specticle G Rate Range (lbs/acre)	Specticle G Rate Range (lbs/1000 sq ft)
Crabgrass		
Goosegrass		
Annual Bluegrass	125 - 200	2.9 - 4.6
Broadleaf weeds		
Annual sedge and kyllinga		

#### SPLIT APPLICATION PROGRAMS

Split applications of Specticle 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, or to control other weeds emerging during the same or overlapping period.

#### Use Rates for Two Split Applications of Specticle G

Target Weed	Rate Range for Specticle G (initial application)		Rate Range for Specticle 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				
Goosegrass				
Annual Bluegrass	125 - 200	2.9 - 4.6	125-200	2.9-4.6
Broadleaf weeds				
Annual sedge and kyllinga				

Target Weed	Rate Range for Specticle G (initial application)		Rate Range for Specticle G (follow-up application within 30-45 days)	Rate Range for Specticle G (follow-up application within 30-45 days)
Crabgrass Goosegrass	In lbs/acre	125	125	125
Annual Bluegrass	In lbs/ 1000 sq ft	2.9	2.9	2.9

#### **CRABGRASS AND GOOSEGRASS CONTROL**

Specticle G provides preemergence control of crabgrass and goosegrass emerging from seed. Specticle G does not control established crabgrass, perennial (continual growth) goosegrass on 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 preemergence applications of Specticle G between August and November depending on the annual bluegrass germination in each geographical area. The optimum timing is dependent on peak annual bluegrass germination and local conditions in a particular year.

#### **BROADLEAF WEED CONTROL**

Specticle G provides preemergence control of many broadleaf weeds. Control is affected by the size of the seed, and the depth of the seed within the soil profile. Large seeded broadleaf weeds or weeds germinating deeper in the soil profile may not be effectively controlled by Specticle G.

ANNUAL SEDGES AND ANNUAL KYLLINGA CONTROL
Specticle G provides preemergence control of sedges and kyllinga emerging from seed.
Specticle G does not control established perennial sedges and kyllinga, or sedges emerging from tubers (nutlets) including yellow and purple nutsedge.

Broadleaf Woods	
American block nightehode	Colonium amaricanium
American black nightshade American Burnweed	Solanum americanum  Erechtites hieracifolia
Beggarticks	Bidens alba
Bittercress	Cardamine spp.
Black medic <sup>2</sup>	Medicago lupulina
Buckweat, Wild	Polygonum convolvulus
California burclover	Medicago polymorpha
Canada thistle, Common	Circium arvense
Chickweed, Common	Stellaria media
Chamberbitter	Phyllanthus urinaria
Chickweed, Mouse-ear	Cerastium vulgatum
Clover, White	Trifolium repens
Corn speedwell	Veronica arvensis
Cudweed, Linear-leaf/Purple	Gnaphalium purpureum
Cupid's shaving brush	Emilia fosbergii
Curly dock	Rumex crispus
Dandelion, Cat's ear	Hypochoeris radicata
Dandelion, Common	Taraxacum officinale
Dogfennel	Eupatorium capillifolium
Eclipta	Eclipta alba
Evening primrose,Common	Oenothera biennis
Evening primrose, Cutleaf	Oenothera laciniata
False chamomile <sup>2</sup>	Matricaria maritima
Filaree, Redstem	Erodium cicutarium
Florida pusley	Richardia scabra
Galinsoga	Galinsoga parviflora
Garden spurge	Chamaesyce hirta
Groundsel, Common	Senecio vulgaris
Hairy fleabane	Erigeron bonariensis
Hairy nightshade Henbit	Solanum sarrachoides
	Lamium amplexicaule
Marestail Kochia	Conyza canadensis
Lambsquarters, Common	Kochia scoparia Chenopodium album
Lawn burweed	Soliva sessilis
Little mallow	Malva parviflora
London rocket <sup>2</sup>	Sisymbrium irio
Longstalked phyllanthus	Phyllanthus tenellus
Mustard, Black <sup>2</sup>	Brassica nigra
Mustard, Wild	Sinapis arvensis
Parthenium	Parthenium hysterophorus
Pigweed, Prostrate	Amaranthus blitoides
Pigweed, Redroot	Amaranthus retroflexus
Pink purslane	Claytonia sibirica
Plantain, Buckhorn	Plantago lanceolata
Plantain, Paleseed	Plantago virginica
Poinsettia, Wild	Euphorbia heterophylla
Prostrate knotweed	Polygonum aviculare
Prostrate spurge	Euphorbia maculata
Puncturevine	Tribulus terrestris
Purslane, Common	Portulaca oleracea
Ragweed, Common <sup>2</sup>	Ambrosia artemisiifolia
Spurge, Spotted	Euphorbia maculata
Tassel flower	Emilia sonchifolia
Redmaids	Calandrinia caulescens
Sesbania, Hemp <sup>2</sup>	Sesbania exaltata
Shepherd's-purse	Capsella bursa-pastoris
Sida, Prickly/Teaweed <sup>2</sup>	Sida spinosa
Southern brassbuttons <sup>2</sup>	Cotula australis
Sowthistle, Annual	Sonchus oleraceus
Stinkwort	Dittrichia graveolens
Sunflower, Common <sup>2</sup>	Helianthus annuus
Swinecress	Coronopus didymus
Tropic ageratum	Ageratum conyzoides
Velvetleaf <sup>2</sup>	Abutilon theophrasti
Vetch, Purple <sup>2</sup>	Vicia benghalensis
Wild carrot <sup>2</sup>	Daucus carota
Willowherb Woodsorrel, Yellow <sup>2</sup>	Epilobium brachycarpum
	Oxalis stricta

GRASSES, MONOCOTS, AND SEDGES			
Annual bluegrass	Poa annua		
Annual kylinga³	Cyperus sesquiflorus		
Barnyardgrass,Common	Echinochloa crus-galli		
Cheatgrass	Bromus secalinus		
Crabgrass, Blanket	Digitaria serotina		
Crabgrass, Henry	Digitaria ciliaris		
Crabgrass, Large/Hairy	Digitaria sanguinalis		
Crabgrass, Smooth	Digitaria ischaemum		
Doveweed	Murdannia nudiflora		
Fall panicum	Panicum dichotomiflorum		
Foxtail brome	Bromus rubens		
Foxtail, Giant	Setaria faberi		
Foxtail, Green	Setaria viridis		
Foxtail, Yellow	Pennisetum glaucum		
Goosegrass	Eleusine indica		
Guineagrass	Panicum maximum		
Kyllinga, Fraqrant/Annual <sup>3</sup>	Kyllinga odorata		
Little barley	Hordeum pusillum		
Mouse barley	Hordeum murinum		
Red brome	Bromus rubens		
Rice flatsedge <sup>3</sup>	Cyperus iria		
Ryegrass, Italian	Lolium multiflorum		
Ryegrass, Perennial	Lolium perenne		
Sandbur	Cenchrus longispinus		
Sedge, Annual <sup>3</sup>	Cyperus spp.		
Sedge, globe <sup>3</sup>	Cyperus croceus		
Tufted lovegrass	Eragrostis pectinacea		

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

<sup>2</sup>Weeds suppressed by Specticlé G

<sup>3</sup>Specticle 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

Specticle G can inhibit root development, as well as the emergence of seed. Roots of newly emerged seedlings may be damaged. Establishment of sod may be affected if Specticle G is applied to turf that is not well established. Timing of seeding, re-seeding, overseeding, sprigging, and sodding turf relative to an application of Specticle G needs to be considered. Seeding, overseeding, re-seeding, sprigging, and sodding intervals are affected by the rate of Specticle G applied, rainfall, and soil texture in a given year. Applications made sooner than the suggested intervals may decrease the establishment of the new seedlings and reduce turf coverage.

PLANTING METHOD	MINIMUM INTERVAL BEFORE APPLICATION	MINIMUM INTERVAL AFTER APPLICATION	MINIMUM INTERVAL AFTER APPLICATION
		125 - 150 lbs/A	150 - 200 lbs/A
Seeding	12 months	10 months	12 months
Sprigging	12 months	10 months	12 months
Sodding	4 months	6 months	8 months

## APPLICATIONS ON SOD FARMS

Specticle G may be applied to turf on Bermudagrass, zoysiagrass, and bahiagrass sod farms. During new sod establishment, Specticle G may be applied when coverage from ribbons is 80% or greater.

Do not apply Specticle G to centipedegrass, seashore paspalum, or St. Augustinegrass sod. Specticle G may be applied to sod up to 4 months prior to harvest.

## ORNAMENTALS

Specticle G may be applied for preemergence weed control in landscape ornamentals. Apply Specticle G, prior to weed seed germination to dormant or actively growing ornamentals as listed in the table below. Apply Specticle G to established ornamentals. Application of Specticle G to budded grafts or graft unions may cause plant injury or

#### USE RESTRICTIONS FOR SPECTICLE G ON ORNAMENTALS

- Do not exceed the maximum single application rates specified for each ornamental use.
- Do not allow granules applied "over-the-top" to remain in contact with foliage. Specticle G may cause localized injury to foliage, especially young leaf tissue. For over-the-top applications, remove granules from leaf surfaces with a blower or
- Do not use Specticle 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 Specticle G on or around annuals not listed as tolerant on this label.
- Do not use Specticle G in landscape beds within 12 months prior to seeding or 3 months prior to planting.
- Do not use Specticle G around bearing fruit and nut trees. Specticle G may be used around non-bearing fruit and nut trees. Non-bearing trees are defined as trees that will not bear fruit until at least 1 year after treatment.
- Do not use Specticle G around non-bearing fruit trees unless they are at least 1
- Do not use Specticle G within the dripline of bearing fruit and nut trees.
- Do not incorporate Specticle G into the soil or potting mix.
- Do not cultivate or disturb the soil surface after application of Specticle G as this may reduce weed control.
- If transplanting mature plants listed as tolerant on this label into soil treated with Specticle G within the preceding 12 months, replace existing soil around roots to minimize effects on plant establishment.
- Do not use Specticle G on ornamentals being grown in a greenhouse.
  Do not use Specticle G on nursery seedbeds, rooted cuttings, or young plants in liners.
- Do not apply Specticle G to plants growing in containers less than 6 inches wide.
- Do not apply Specticle G to plants less than 5 inches in height.
- Do not apply Specticle G to drainage ditches.
- Do not apply Specticle G to ornamental bulbs after they have emerged.

#### USE OF SPECTICLE G ON ORNAMENTALS IN COARSE AND **SANDY SOILS**

Soil conditions can affect the tolerance of ornamentals to Specticle G. Excessively coarse or sandy soils may allow for downward movement of Specticle G into the root zone and cause significant root damage and phytotoxicity. Coarse soils may include significant quantities of sand, gravel, decomposed granite, and ground cinders. Prior to application of Specticle G on these soils, confirm soil texture with a soil test. Ornamentals grown in soil exceeding 90% sand or 20% gravel may be at risk. If Specticle G is to be applied in these soils, evaluate tolerance of a few plants of each ornamental in Specticle G treated soil for 1-2 months prior to a large scale application.

#### SYMPTOMS OF SPECTICLE G INJURY ON ORNAMENTALS

Specticle G may injure sensitive ornamentals by damaging roots or leaves. Plants damaged by root absorption will appear stunted, deformed, and may not recover. If granules of Specticle 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 Specticle G.

#### LANDSCAPE ORNAMENTAL USES

Specticle G may be used in residential, commercial, as well as federal, state, and local plantings of ornamentals for preemergence weed control. Apply Specticle G only to established (rooted) plants and not to newly rooted cuttings/or seedlings. To avoid root damage, apply Specticle G around transplants when the soil has firmly settled around the root area. Irrigation or rainfall will help to settle the soil and seal surface cracks. Make applications prior to mulching for best weed control. If Specticle G contacts foliage, prush 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. Herbaceous annuals and perennials are sensitive to Specticle G.

#### Use of Specticle G near Sensitive Grasses

<u>CAUTION:</u> Specticle G applied uphill to sensitive grasses can move, under certain circumstances, to sensitive grasses and cause injury and stand reduction.

Do not apply to landscape beds uphill from ryegrass or mixed lawns where ryegrass is

AMOUNT TO USE: Apply Specticle G at 125 - 200 lbs of product per acre (2.9 - 4.6 lbs/1000 sq ft) around ornamentals.

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

Application of Specticle G to heavily mulched landscape beds may result in reduced weed control. Specticle G may be applied to lightly mulched area after the mulch has settled.

#### ORNAMENTALS AND THEIR CULTIVARS TOLERANT TO SPECTICLE G

Tolerant ornamentals and their cultivars are listed in the following table. If a desired plant to be treated is not listed on this label, treat several plants at the maximum use rate and evaluate 1-2 months later for acceptable tolerance. The user assumes responsibility for application to plants not listed in this table. Do not treat annuals not listed on this label.

	0.1 115 11	a lu
Common Name Abelia	Scientific Name Abelia grandiflora	Cultivar Little Richard, Edward
Abelia	ribena granumura	Gaucher
Arborvitae	Thuja occidentalis	Emerald, Green Giant,
		Green Flag, Nigra, Techny, Yellow Ribbon
Asparagus fern	Asparagus plumosus	
Aucuba, Japanese/Gold Dust Plant	Aucuba japonica	Variegata
Azalea	Rhododendron spp.	Delaware Valley White,
		Fashion, Florida Flame,
		Girard's Rose, Haps Pink, High Tide, Judge Solomon,
		Karen, Nova Zembla,
		Mother's Day, Pink Gumpo, Red Ruffle, VF 14, White
		Gumpo
Azalea, Cat Album	Rhododendron catawbiense	Chionoides
Azalea, Encore Azalea, Formosa	Rhododendron spp. Rhododendron indicum	Autumn Debutante Satsuki
Azalea, Formosa Azalea, Kurme	Rhododendron obtusum	Hino Crimson
Azalea, Macrantha	Rhododendron macrantha	
Barberry	Berberis thunbergii f. atropurpurea	Crimson Pygmy, Rosy Glow
Bayberry, Northern	Myrica (Morella) pennsylvanica	
Beautybush Big bluestem	Linnaea (Kolwitzia) amabilis Andropogon gerardii	
Black Hawthorn	Crataegus douglasii	
Blackberry, European	Rubus fructicosus	Legacy, Ouachita
Bleeding heart vine	Clerodendrum thomsoniae	Bleeding Heart
Bluebird	Caryopteris x clandonensis	Dark Knight
Bluestem, Big Bluestem, Little	Andropogon gerardii	
Bluestem, Little Bottlebrush, Crimson	Andropogon scoparius Callistemon citrinus	
Bougainvillea	Bougainvillea spp.	Barbara Karst
	,,,	Double Red
Boxwood	Buxus microphylla	Baby Gem, Chicagoland Green, Dwarf, Green
		Beauty
Boxwood, Common/English	Buxus sempervirens	Green Gem, Green
		Mountain, Suffructicosa, Winter Gem
Butterfly bush	Buddleia	Nanho Blue
Buttonwood, Silver/Green	Conocarpus erectus	
Camellia, Japanese	Camellia japonica	Margaret Heathcliff Pink
Camellia, Little leaf	Camellia sasanqua	Cleopatra Pink, Shi Shi Gashira
Cedar, Atlantic white	Chamaecyparis thyoides	Gastilla
Cedar, Japanese	Cryptomeria japonica	Black Dragon, Burkii,
Chasta Tree	Vitov agnus asstus	Globosa Nana, Yoshino
Chaste Tree Cleyera, Japanese	Vitex agnus-castus Ternstroemia gymnanthera	Abbeville Blue Sotall
Clusia, Dwarf	Clusia quttifera	Nana
Cocoplum	Chrysobalanus icaco	Traile
Coral bells (Heuchera)	Heuchera sanguinea	Ruby Bells, Silver Scrolls
Cotoneaster	Cotoneaster	Coral Beauty
Crape myrtle	Lagerstroemia indica	Burgundy Cotton, Pocomoke Pink, Sarah's
		Favorite, Siren Red
Crape myrtle	Lagerstroemia indica x fauriei	Miami, Muskogee, Natchez, Tuscarora
Crown of thorns	Euphorbia milli	Natchez, fuscalora
Cryptomeria	Cryptomeria japonica	Black Dragon, Yoshino
Cypress, Bald	Taxodium distichum	Shawnee Brave
Cypress, False	Chamaecyparis spp.	Gold Mops, Gold Thread
Cypress, Japanese (Hinoki Cypress)	Chamaecyparis obtusa	Globose Nana
Cypress, Pond	Taxodium distichum var. imbricatum	
Cypress, Leyland	Cupressus x leylandii	
Cypress, Mediterranean	Cupressus sempervirens	Glauca
Daphne	Daphne caucasica	Summer Ice
Deutzia Euonymus, Spreading	Deutzia gracilis Euonymus kiautschovicus	Nikko Manhattan
Euonymus, Variegated boxleaf	Euonymus japonicus	Cholippo, Silver Queen,
(Japánese spindle)	, ,,	Variegaturm
False holly	Osmanthus heterophyllus	Goshiki
Feather reed grass Firebush, Dwarf	Calamagrostis x acutiflora  Hamelia patens	Overdam, Karl Foerster Compacta
Firebush, Dwart Firethorn (Pyracantha)	Pyracantha coccinea	Red Cushion
Florida Leucothe (Pipestem)	Leucothoe populifolia	ca cadilloli
Forsythia (Golden bells)	Forsythia x intermedia	Lynwood Gold
Gardenia	Gardenia radicans	
Gardenia	Gardenia jasminoides	Frostproof , Mystery
Gaura Gold-dust plant	Gaura lindheimeri Aucuba japonica	Pink Fountain Gold Dust
Hardy kiwi	Actinidia arguta	Anna
Hawaiian snowbush	Breynia disticha	
Hawthorn, Black	Crataegus douglasii	
Heather	Erica spp.	
Hibiscus, Chinese	Hibiscus rosa-sinensis	President Red, San Diego Red
Hibiscus (Rose mallow)	Hibiscus moscheutos	Luna White
Hibiscus (Rose of sharon)	Hibiscus syriacus	Boule de Feu, Lohengrin,
`		Pink Heart, Red
Holly American	Ilex latifolia	Mary Nell
Holly, American Holly, Chinese	Ilex opaca Ilex cornuta	Budfordii Nana, Carissa,
Holly, offices	nex cornuta	Dwarf Burford, Needlepoint
Holly, Dragon lady	Ilex x aquipernyi	Dragon Lady
Holly, Dwarf yaupon	Ilex vomitoria	Schillings, Stoke's Dwarf
Holly, Inkberry/Gallberry	llex glabra	Compacta, Densa, Shamrock
		Sullilook

Holly, Japanese	llex crenata	Compacta, Green Lustre, Sky Pencil, Soft Touch
Holly, Meservae	llex meserveae	Blue Maid, Blue Princess
Honeylocust	Gleditsia triacanthos	Sunburst, Sunshine
Honeysuckle, European	Lonicera periclymenum	Harlequin
Honeysuckle, Japanese	Lonicera japonica	
Hosta (before emergence)	Hosta spp	Sum and Substance, Twilight
Iceplant	Delosperma congestum	White Nugget
Iceplant	Delosperma nubigenum	Basutoland
Iceplant, Hardy	Delosperma cooperi	Cooper's Hardy Iceplant, Purple Mountain
Inkberry	llex glabra	Densa
Indian hawthorn	Rhaphiolepis indica	Dwarf Pink, Minor, Pink Lady
Ivy, English	Hedera helix	Thorndale
Ixora	Ixora coccinea	Maui, Maui Red, Maui Yellow
Ixora, Dwarf	Ixora taiwanesis	Petite Pink, Petite Red
Japanese Cleyera	Ternstroemia gymnanthera	
Japanese Mock-orange	Pittosporum tobira	Variegata
Japanese plum yew	Cephalotaxus harringtonia	Fastigiata
Japanese yew	Taxus x media	Densiformis
Jasmine, Asiatic/Yellow star	Trachelospermum asiaticum	Minima
Jasmine, Winter	Jasminum nudiflorum	
Jessamine, Carolina	Gelsemium sempervirens	
Juniper, Chinese	Juniperus chinensis	Gold Tip, Grey Owl, Sea Green, Spartan
Juniper, Creeping	Juniperus horizontalis	Bar Harbor, Blue Rug
Juniper, Flaky	Juniperus squamata	Blue Star
Juniper, Japanese garden	Juniperus procumbens	Nana
Juniper, Parson's	Juniperus davurica	Expansa, Parsonii
Juniper, Shore	Juniperus conferta	Blue Pacific
Kinnikinnick	Arctostaphyos uva-ursi	
Lantana	Lantana camara	Landmark Sunrise Rose
Laurustinus	Viburnum tinus	
Lilac	Syringa x 'Penda'	Bloomerang
Lilac, Common	Syringa vulgaris	
Lilac, Dwarf korean	Syringa meyeri	Palibin
Lilac, Japanese tree	Syringa reticulata	Ivory Silk

(continued)

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Common Name	Scientific Name	Cultivar
Lilac, Manchurian	Syringa 'pubescens' subsp. Patula	Miss Kim
Lily of the valley shrub Liriope (Lilyturf)	Pieris japonica Lirione muscari	Cavatine, Mountain Fire
Liriope (Lilyturr)	Liriope muscari	Aztec Grass, Big Blue, Evergreen Giant, Silvery Sunproof
Liriope (Lilyturf)	Liriope spicata	Silver Carpet
Loropetalum Maidan areas (Fulalisareas)	Loropetalum chinensis	Burgundy, Ruby, Plum Purple, Rubra
Maiden grass (Eulaliagrass)	Miscanthus sinensis	Gracillimus, Zebrinus, Little Zebra
Magnolia, Loebner	Magnolia x loebneria	Leonard Messel
Magnolia, Star Maple, Japanese	Magnolia stellata Acer palmatum	Waterlilly Bloodgood, Weeping Red Dragon
Maple, Red	Acer rubrum	Autumn Blaze, Autumn Radiance, Frank's Red, October Glory, Red Sunset
Mealycup sage	Salvia farinacea	Victoria white
Mondograss	Ophiopogon japonicus	
Muhly Grass	Muhlenbergia capillaris	
Nandina	Nandina domestica	Firepower
Oak, Northern pin	Quercus ellipsoidal	
Oak, Overcup	Quercus lyrata	
Oak, Pin	Quercus palustris Quercus x bimundorum	Midwest
Oak, Prarie stature Oak, White	Quercus x bimundorum Quercus alba	Swamp White
Oleander	Nerium oleander	Calypso, Cardinal Red
Palm, Areca	Dypsis lutescens	carypoo, our unful fieu
Palm, Coconut	Cocos nucifera	
Palm, European (Mediterranean) Fan	Chamaerops humilis	
Passion Vine	Passiflora caerulea	Blue
Periwinkle, Madagascar	Catharathus roseus	Titan Lilac
Photinia	Photinia x fraseri	Birmingham, Red Tip
Pine, Eastern white	Pinus strobus	
Pine, Loblolly	Pinus taeda	
Pine, Mondell	Pinus eldarica	
Pittosporum	Pittosporum tobira	Variegata
Plum, American	Prunus americana	Imperial Plus
Plumbago (Cape leadwort) Podocarpus (Buddhist pine)	Plumbago auriculata Podocarpus macrophyllus	Imperial Blue
Potentilla, Shrubby cinquefoil	Podocarpus macrophyllus Potentilla fruticosa	Goldfinger
Prairie Cordgrass	Spartina pectinata	goi
Privet, Vicary golden	Ligustrum x vicary	Vicary Golden
Pyracantha/Firethorn	Pyrancantha coccinea	Red Cushion
Quince, Flowering	Chaenomeles speciosa	
Red cedar, Eastern Rose	Juniperus virginiana Rosa spp.	Idyllwild Caramba, Double Knock Out, Flower Carpet Amber, Home Run, Knock Out, Louis Phillipe, Pink Knock Out, RadrazzPink
Rose	Rosa rugosa	
Rose, Virginia Rose Mallow	Rosa virginiana Hibiscus moscheutos	
Rose of sharon	Hibiscus moscneutos Hibiscus syriacus	Pink Heart, Boule de Feu
Russian Olive	Elaeagnus angustifolia	. am ricary bould do red
Sage, Mealycup	Salvia farinacea	Victoria White
Schefflera	Schefflera arboricola	Dwarf, Trinette,
Contabbras	Cutious con	Variegata
Scotchbroom Sea Oats	Cytisus scoparius Chasmanthium latifolia	Burkwoodii
Sea Oats Sedge, Leather leaf flat	Chasmanthium latifolia Carex comans	Red Rooster
Serviceberry (Shad brush)	Amelanchier canadensis	neu noostel
Smoketree	Cotinus coggygria	Royal Purple
Snowberry, Common	Symphoricarpos albus	
Snowbush, Hawaiian	Breynia disticha	
Spiraea	Spiraea japonica	Lemon Princess, Little Princess, Norman, Shirobana
Spruce, Dwarf alberta	Picea glauca	Conica
Stonecrop (1 application)	Sedum spp.	Kamshaticum, Matrona
Stonecrop (1 application)	Sedum ternatum	Larinem Park
Sweet olive, Fragrant tea olive	Osmanthus fragrans	Chanandash
Switchgrass Taxus (Japanese vew)	Panicum virgatum	Shenandoah
Taxus (Japanese yew) Thin-fruit sedge	Taxus x media Carex flaccosperma	Densiformis
Viburnum	Viburnum awabuki	
Viburnum, Burkwood	Viburnum x burkwoodii	
Viburnum, Popcorn (Japanese snowball)	Viburnum plicatum	Popcorn, St. Veverne
Virginia sweetspire	Itea virginica	
Wax Myrtle, Southern	Myrica cerifera (w/woody growth)	
Witch Alder, Dwarf	Fothergilla gardenii	
Yellow Anise	Illicium parviflorum	
Yellow Indian grass	Sorghastrum nutans	

Do not use Specticle G on any of these plants	
Common Name	Scientific Name
Blue fescue grass	Festuca glauca
Croton	Codiaeum variegatum
Dewdrops	Duranta erecta
Fountain grass	Pennisetum alopecuroides
Fountain grass, Purple	Pennisetum setaceum
Hydrangea	Hydrangea macrophylla
Mandevilla	Mandevilla spp.
Privet, Japanese	Ligustrum japonicum
Sweet viburnum	Viburnum odoratissimum

## **NATURAL AREAS**

Viburnum

Use Specticle G to control weeds in managed natural areas including those on golf courses. These areas can be adjacent to fairways, tees, greens, and in steep areas that are difficult to manage with a traditional program or where low maintenance is desired. Plants in these areas include those indigenous to a geographic area as well as other plants introduced due to their potential for low maintenance or for aesthetic considerations. Use of Specticle G in natural areas allows the user to manage undesirable weeds and prevent germination of invasive plants.

Viburnum suspensum

Apply Specticle G around tolerant ornamentals listed on this label to control annual grasses and broadleaf weeds prior to germination. All plants must be established for at least one growing season before an application of Specticle G. If a desired plant to be treated is not listed on this label, treat several plants at the maximum use rate and evaluate 1-2 months later for acceptable tolerance.

Germination of wildflower seed will be sensitive to Specticle G. Seed these into treated areas no sooner than 12 months after an application of Specticle G. Do not make an over-the-top application to wildflowers.

**AMOUNT TO USE:** Apply Specticle G around ornamentals at 125-200 lbs of Specticle G per acre (2.9-4.6 lbs/1000 sq ft). Activate Specticle G by watering in with light irrigation or rainfall.

# NON-SELECTIVE USES NON-CROPAREAS

Specticle G may be used to maintain bare ground in non-crop areas. These include paths, parking lots, curbs, sidewalks, driveways, around buildings, gravel areas, loading ramps, educational facilities, storage yards, vacant lots, fence rows, parks, and hardscapes. All weeds and debris must be removed from the area to be treated for optimum weed control. Irrigation or rainfall after application will provide maximum weed control.

#### **Use of Specticle G near Sensitive Grasses**

Specticle G applied uphill to sensitive grasses can move, under certain circumstances, to sensitive grasses and cause injury and stand reduction.

**AMOUNT OF USE:** Apply 200-400 lbs of Specticle G per acre (4.6-9.2 lbs/1000 sq ft)

# STORAGE AND DISPOSAL

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

#### **PESTICIDE STORAGE**

Store in original container and keep tightly closed when not in use. Store in a cool, dry place. Avoid cross-contamination with other pesticides.

## **PESTICIDE DISPOSAL**

Pesticides wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be used according to label instructions, contact your State Pesticide or Environmental Control Agency or Hazardous Waste representative at the nearest EPA regional office for guidance in proper disposal methods.

#### **CONTAINER HANDLING**

Non-refillable container. Do not reuse or refill this container. Completely empty paper or plastic bag, fiber sack or drum liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application or manufacturing equipment. Then offer for recycling if available or dispose of empty paper or plastic bag, fiber sack or fiber drum and liner in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances.

# **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 Environmental Science U.S., LLC. 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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