

NOTICE OF WEED CONTROL APPLICATION

Date of Application: February 18, 2025

Location: Sagemont Park

Reason for Application: A pre-emergent for broadleaf weeds in planter areas.

Product Manufacturer Name: Snapshot 2.5 TG

-EPA registration no. 62719-175

-Active ingredients: Trifluralin and isoxaben

-Precautionary statement: Causes moderate eye irritation. Harmful if swallowed or inhaled. Prolonged or frequently repeated skin contact may cause allergic reaction in some.

Product Manufacturer Name: Bayer Specticle Flo

- -EPA registration no. 432-1608
- -Active ingredients: Indaziflam
- -Precautionary statement: Harmful if inhaled. May cause damage to organs (nervous system) through prolonged or repeated exposure. Do not breathe spray. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling.

^{*}No applications within 25 feet of playgrounds

^{*}See attached label and SDS sheet

^{*}Dates are subject to change due to weather

Specimen Label



Snapshot® 2.5TG

SPECIALTY HERBICIDE

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A selective preemergence herbicide for control of certain broadleaf weeds and annual grasses in:

- Landscape Ornamentals
- Christmas Tree Plantations
- Container Grown Ornamentals
- Field Grown Ornamentals
- Groundcovers/Perennials
- . Non-Bearing Fruit and Nut Trees
- Non-Bearing Vineyards
- Non-Cropland

| Active Ingredients: | |
|---|-------|
| trifluralin: α,α,α-trifluoro-2,6-dinitro-N, | |
| N-dipropyl-p-toluidine | 2.0% |
| isoxaben: N-[3-(1-ethyl-1-methylpropyl)-5- | |
| isoxazolyl]-2,6-dimethoxybenzamide | |
| and isomers | 0.5% |
| Other Ingredients | 97.5% |

Contains 1.25 lb active ingredient per 50 lb bag.

Precautionary Statements

Hazards to Humans and Domestic Animals

EPA Reg. No. 62719-175

Keep Out of Reach of Children CAUTION

Causes Moderate Eye Irritation • Harmful If Swallowed Or Inhaled • **Prolonged Or Frequently Repeated Skin Contact May Cause Allergic** Reaction In Some Individuals

Avoid breathing dust or spray mist and contact with eyes or clothing. Wash thoroughly with soap and water after handling.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

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

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

Engineering Controls

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 immediately if pesticide gets inside. Then wash
- thoroughly and put on clean clothing.
 Users should remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

First Aid

If in eyes: Hold eye 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 eye. Call a Poison Control Center or doctor for treatment advice.

If swallowed: Call a Poison Control Center or doctor immediately for treatment advice. Have a 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 by mouth to an unconscious person. If inhaled: 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. You may also contact 1-800-992-5994 for emergency medical treatment information.

Environmental Hazards

This pesticide is extremely toxic to freshwater marine, and estuarine fish and aquatic invertebrates including shrimp and oyster. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply in a manner which will directly expose canals, lakes, streams, ponds, marshes or estuaries to aerial drift. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

Directions for Use

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Read all Directions for Use carefully before applying.

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 of this label about personal protective equipment (PPE), and restricted entry interval. The requirements in the 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
- Shoes plus socks

Non-Agricultural Use Requirements

The requirements of 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 areenhouses.

For applications in landscape settings and in non-cropland sites, do not enter or allow others to enter the treated area until dusts have settled.

Storage and Disposal

Do not contaminate water, food, or feed by storage or disposal. Pesticide Storage: Store in original container only. In case of spill, contain material and dispose as waste.

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

Nonrefillable rigid containers 5 gallons or less:

Container Handling: Nonrefillable container. Do not reuse or refill this container.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix Storage and Disposal (Cont.)

tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. **Pressure rinse** as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

Nonrefillable nonrigid containers:

Container Handling: Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then offer for recycling if available, or dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

Refillable rigid containers larger than 5 gal:

Container Handling: Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10% full with water and, if possible, spray all sides while adding water. If practical, agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

Nonrefillable rigid containers larger than 5 gal:

Container Handling: Nonrefillable container. Do not reuse or refill this container.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse** as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. **Pressure rinse** as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

General Information

Snapshot® 2.5 TG specialty herbicide is a preemergence product for control of certain broadleaf weeds and annual grasses in container and landscape ornamentals, nursery stock, Christmas trees, groundcovers/perennials, non-bearing fruit and nut trees, non-bearing vineyards and non-cropland areas. Apply Snapshot 2.5 TG anytime prior to germination of target weeds, or immediately after cultivation. Length of weed control will vary with rate of Snapshot 2.5 TG applied, weed population, potting media or soil conditions, temperature, watering regime, and other factors. Following application, user should monitor and observe level of weed control over time to determine when additional applications may be needed.

General Use Precautions and Restrictions

In Arizona: The state of Arizona has not approved Snapshot 2.5 TG for use on plants grown for agricultural/commercial production; such as on Christmas tree plantations, container grown or field grown ornamentals, non-bearing fruit and nut trees and non-bearing vineyards.

Snapshot 2.5 TG controls weeds growing from seed. Snapshot 2.5 TG does not control established weeds, weeds growing from stolons, rhizomes, or root pieces. Existing weeds should be controlled by cultivation or with posternergence herbicides. Weed residues, prunings and trash should be removed or thoroughly mixed into soil prior to treatment. Soil should be in good condition and free of clods at the time of application. A single rainfall or sprinkler irrigation of 0.5 inches or more, or flood irrigation is required to activate Snapshot 2.5 TG. Optimum weed control is obtained when Snapshot 2.5 TG is activated within 3 days of application. If rainfall or irrigation does not occur within 3 days

of application and tillage is possible, Snapshot 2.5 TG may be activated using cultivation equipment capable of uniformly mixing the herbicide into the upper 1 to 2 inches of soil. Failure to activate Snapshot 2.5 TG within 3 days of application may result in erratic control of annual grasses. Do not apply when wind conditions favor drift of Snapshot 2.5 TG granules from the target area.

Repeat applications at 150 lb per acre and higher should not be made sooner than 60 days after a previous application of Snapshot 2.5 TG. Do not apply over 600 pounds per acre total of Snapshot 2.5 TG within a 12-month period.

Tolerance of Turfgrass Adjacent to Ornamental Plantings: Accidental application to turf may occur when applying Snapshot 2.5 TG to ornamental plantings. Snapshot 2.5TG is not recommended for weed control in turfgrasses, but turfgrasses are generally tolerant to small amounts of this product that fall outside of the intended area of application.

Do not aerially apply Snapshot 2.5TG.

Treatment Species Not Listed on the Label for Snapshot 2.5 TG Users who wish to use Snapshot 2.5 TG on plant species not recommended on this label may determine the suitability for use by treating a small number of such plants at a recommended rate. Prior to treatment of larger areas, the treated plants should be observed for any sign of herbicidal injury for during 30 to 60 days of normal growing conditions to determine if the treatment is safe to the target plant species. The user assumes responsibility for any plant damage or other liability resulting from use of Snapshot 2.5 TG on plant species not recommended on this label.

Application Instructions

Apply Snapshot 2.5 TG using a drop or rotary-type spreader designed to apply granular herbicides or insecticides. Calibrate application equipment prior to use according to manufacturer's directions. Check frequently to be sure equipment is working properly and distributing granules uniformly. Do not use spreaders that apply material in narrow concentrated bands. Avoid skips or overlaps as poor weed control or crop injury may occur. More uniform application may be achieved by spreading half of the required amount of product over the area and then applying the remaining half in swaths at right angles to the first.

Application Techniques for Applying Snapshot 2.5 TG

- When using a drop-type spreader, a splashboard mounted under the hopper will provide more even granule distribution.
- A chain fastened to the side of the spreader and allowed to drag on the soil surface can be used to mark the edge of the treated swath and help prevent skips or overlaps.
- For treating smaller areas or rows of nursery stock or ornamental beds, a hand held or push-type rotary applicator such as a whirlybird or cyclone unit is recommended. For hand held units, walk and turn the crank at a constant rate of speed.
- A shaker-type applicator made from a small container with holes punched in the bottom is recommended for small, difficult to treat areas. Carefully measure the amount of product needed to avoid over application.
- The weight-to-volume conversion table below provides equivalent amounts of Snapshot 2.5 TG.

Broadcast Rates

| Rate | Amount/1000 sq ft | | Rate Amount/1000 sq ft | Amount | /100 sq ft |
|---------|-------------------|----------|------------------------|--------|------------|
| lb/Acre | (lb) | (quarts) | (lb) | (cups) | |
| 100 | 2.30 | 1.75 | 0.23 | 0.7 | |
| 150 | 3.45 | 2.60 | 0.35 | 1.0 | |
| 200 | 4.60 | 3.50 | 0.46 | 1.4 | |

1 lb of Snapshot 2.5 TG = 0.75 quart = 3 cups

Spreader Settings as a Guide for Calibration

Note: These settings are provided as a suggested starting point in calibrating each individual spreader. Since no two spreaders are alike, these settings are not intended to be used as absolute recommendations by Dow AgroSciences or the spreader manufacturer.

| | Settings for Warren T-7 II Spreader Target Rate of Snapshot 2.5 TG | | |
|-------------|--|-------------|-------------|
| | | | |
| Speed (mph) | 100 lb/acre | 150 lb/acre | 200 lb/acre |
| 2.0 | 2 1/2 | 3 1/4 | 3 3/4 |
| 2.5 | 3 | 3 1/2 | 4 1/4 |
| 3.0 | 3 1/4 | 4 | 5 |

Warren spreader settings are displayed in half-number increments only. The suggested settings that indicate quarter settings can be accomplished by placing the calibration arm between the half number marks on the spreader.

Weeds Controlled or Suppressed

Weeds controlled when applied at 100 lb per acre (2.3 lb per 1000 sq ft):

Common Name aster, slender barnyardgrass bluegrass, annual

bursage, annual celery, wild

chickweed, common clover, white crabgrass

cudweed, purple cupgrass, southwestern fiddleneck, coast filaree, redstem fleabane, blackleaved fleabane, dwarf

foxtail, yellow groundcherry, lanceleaf

henbit horseweed junglerice

knotweed, prostrate lambsquarters, common

mallow, little mustard, Indian mustard, wild nightshade, black oat, wild

panicum, fall pepperweed, Virginia

pigweed pineappleweed plantain, slender purslane, common radish, wild ragweed, common rocket, London rockpurslane, desert shepherdspurse

sibara

smartweed, Pennsylvania sowthistle, annual speedwell, purslane sprangletop, Mexican telegraphplant thistle, Russian

Scientific Name

Aster exilis

Echinochloa crus-galli

Poa annua

Ambrosia acanthicarpa Apium leptophyllum Stellaria media Trifolium repens Digitaria spp.

Gnaphalium purpureum Eriochloa gracilis Amsinckia intermedia Erodium cicutarium Convza bonariensis Conyza ramosissima Setaria glauca Physalis lanceifolia Lamium amplexicaule Conyza canadensis Echinochloa colonum Polygonum aviculare Chenopodium album Malva parviflora

Brassica juncea Sinapis arvensis Solanum nigrum Avena fatua Panicum dichotomiflorum

Lepidium virginicum Amaranthus spp. Matricaria matricarioides Plantago elongata Portulaca oleracea Raphanus raphanistrum Ambrosia artemisiifolia Sisymbrium irio Calandrinia ciliata Capsella bursa-pastoris

Sibara virginica Polygonum pensylvanicum Sonchus oleraceus Veronica peregrina Leptochloa univervia Heterotheca grandiflora Salsola iberica

Panicum capillare

Weeds controlled when applied at 150 lb per acre (3.5 lb per 1000 sq ft):

Common Name aster, heath

witchgrass

carrot, wild

bittercress bittercress, hairy brassbuttons, southern

chamberbitter chickweed, mouseear

dandelion

eclipta fireweed foxtail, giant galinsoga, hairy geranium, Carolina groundsel, common ladysthumb

lettuce, prickly lovegrass mallow, dwarf marestail mayweed

Scientific Name

Aster ericoides Cardamine oligosperma Cardamine hirsuta Cotula australis Daucus carota Phyllanthus urinaria Cerastium vulgatum Taraxacum officinale Eclipta prostrata Erechtites hieracifolia

Setaria faberi Galinsoga ciliata Geranium carolinianum Senecio vulgaris Polygonum persicaria Lactuca serriola Eragrostis spp. Malva rotundifolia Hippuris vulgaris Anthemis cotula

Weeds Controlled or Suppressed (Cont.)

Weeds controlled when applied at 150 lb per acre (3.5 lb per 1000 sq ft): (Cont.)

morningglory, ivyleaf mustard, black pennywort

phyllanthus, long-stalk plantain, bracted plantain, broadleaf plantain, buckhorn pokeweed, common rockpurslane, redmaids

ryegrass, annual sida, prickly sorrell, red

speedwell, thymeleaf spurge, hyssop spurge, spotted sweetclover, yellow tansymustard, green

velvetleaf woodsorrel, yellow

Ipomoea hederacea Brassica nigra Hydrocotyle spp. Phyllanthus tenellus Plantago aristata Plantago major Plantago lanceolata Phytolacca americana

Calandrinia ciliata var. menziesii

Lolium multiflorum Sida spinosa Rumex acetosella Veronica serpyllifolia Euphorbia hyssopifolia Euphorbia maculata Melilotus officinalis Descurainia pinnata Abutilon theophrasti Oxalis stricta

Weeds controlled when applied at 200 lb per acre (4.6 lb per 1000 sq ft):

Common Name

barley, hare bromegrass

burclover, California cheat

datura dogfennel eveningprimrose fescue, rattail filaree, whitestem goosefoot, nettleleaf

goosegrass iimsonweed

knotweed, silversheath kochia

medic, black mullein, turkey nettle, burning nettle, stinging oxtongue, bristly pimpernel, scarlet sandbur, field signalgrass sowthistle, spiny spurge, petty spurge, prostrate stinkgrass

sunflower swinecress thistle, musk willoweed, panicle woodsorrel, creeping

Scientific Name Hordeum leporinum

Bromus spp. Medicago polymorpha Bromus secalinus

Datura spp.

Eupatorium capillifolium

Oenothera spp. Vulpia myuros Erodium moschatum Chenopodium murale Eleusine indica Datura stramonium Polygonum argyrocoleon Kochia scoparia Medicago lupulina Eremocarpus setigerus

Urtica urens Urtica dioica Picris echioides Anagallis arvensis Cenchrus incertus Brachiaria spp. Sonchus asper Euphorbia peplus Euphorbia humistrata Eragrostis cilianensis Helianthus spp. Coronopus didymus Carduus nutans Epilobium paniculatum

Weeds partially controlled or suppressed when applied at 200 lb per acre (4.6 lb per 1000 sq ft):

Common Name

bindweed, field carpetweed dock, curly

johnsongrass (seedling) mallow. Venice milkweed, honeyvine morningglory, tall panicum, Texas pusley, Florida shattercane

Scientific Name

Oxalis corniculata

Convolvulus arvensis Mollugo verticillata Rumex crispus Sorghum halepense Hibiscus trionum Ampelamus albidus Ipomoea purpurea Panicum texanum Richardia scabra Sorghum bicolor

Uses

Ornamental Plantings

Snapshot 2.5 TG is recommended as a preemergence treatment for control of certain broadleaf weeds and annual grasses in container grown ornamentals, landscape ornamentals, field grown ornamentals, ground covers/perennials, Christmas trees, non-bearing fruit and nut crops, and non-bearing vineyards. Apply Snapshot 2.5 TG anytime prior to germination of target weeds, or immediately after cultivation.

Refer to the General Information section of this label for General Use Precautions and information on application, application rates and weeds controlled.

Special Use Precautions:

To avoid possible injury, do not apply Snapshot 2.5 TG to:

- nursery, forest, or Christmas tree: seedling beds, cutting beds, or transplant beds
- nursery seedbeds or forest or Christmas tree seedling transplant beds.
- unrooted liners or cuttings that have been planted in pots for the first time.
- pots less than four inches wide.
- bedding plants or areas where bedding plants will be planted or transplanted within one year following application.
- groundcovers until they are established and well rooted.

Do not apply Snapshot 2.5 TG to newly transplanted ornamentals, nursery stock, Christmas trees, groundcovers, non-bearing fruit and nut trees and non-bearing vineyards until soil or potting media has been settled by packing and irrigation or rainfall and no cracks are present or injury may occur.

Repeat applications at 150 lb per acre and higher should not be made sooner than 60 days after a previous application of Snapshot 2.5 TG. Do not apply over 600 lb per acre total of Snapshot 2.5 TG within a 12-month period.

Where loss of stand has occurred in field grown ornamentals, use untreated soil as fill around roots when replacing plants or injury may occur.

Note: Injury on the following plant species has been observed following applications of Snapshot 2.5 TG and use is not recommended.

Common Name Scientific Name ballerina cranesbill Geranium cinereum 'Ballerina' bertram anderson lingwort Pulmonaria longifolia bugle Ajuga spp. cajeput tree Melaleuca quinquenervia candytuft Iberis spp. Carolina rhododendron Rhododendron carolinianum dwarf burning bush Euonymus alatus 'compacta' foxglove Digitalis purpurea green yucca Yucca recurvifolia hydrangea Hydrangea spp. luxuriant bleeding heart Dicentra luxuriant mountain sandwort Arenaria montana mustard Brassica spp. oak leaf acanthus Acanthus mollis prince of wales juniper Juniperus horizontalis 'Prince of Wales' purple coneflower Echinacea purpurea roseum elegans rhododendron Rhododendron catawbiense 'Roseum elegans' spurge Euphorbia spp. stonecrop Sedum spp. summer phlox Phlox paniculata white festival baby's breath Gypsophila paniculata

Snapshot 2.5 TG may be used on the following established plant species (Note: Limitations on recommended treatment methods):

Vinca minor 'Atropurpurea'

Recommended Treatment Method:

wine periwinkle

Trees

| | | C = Container Grown |
|-----------------|-------------|---------------------|
| | | F = Field Grown |
| Scientific Name | Common Name | |
| | | |

| Abies balsamea | fir, balsam | C, F |
|-------------------|------------------------------|------|
| Abies concolor | fir, white | F |
| Abutilon hybridum | albus-flowering maple | C, F |
| | luteus-flowering maple | C, F |
| | roseus-flowering maple | C, F |
| | tangerine-flowering maple | C, F |
| | vesuvius red-flowering maple | F |
| Acer gimmala | flame maple | F |
| Acer rubrum | red maple | F |
| | | |

Trees (Cont.)

Recommended Treatment Method: C = Container Grown F = Field Grown

| | r = rk | siu Gir |
|----------------------------|---------------------------------|----------|
| Scientific Name | Common Name | |
| | red sunset maple | F |
| Acer saccharinum | silver maple | C, F |
| Alsophila australis | Australian tree fern | C, F |
| Areacastrum romanzoffianum | queen palm | C, F |
| Betula nigra | birch, river | C, F |
| Betula papyrifera | paper birch | F |
| Brachychiton populneus | bottle tree | C, F |
| Bucida buceras | black olive | F |
| Ceratonia siliqua | carob | F |
| Cercis canadensis | redbud | C, F |
| Chamaecyparis obtusa | filicoides-fernspray cypress | F |
| Chamaecyparis obtusa | gracilis-slender hinoki cypress | F |
| Chamaecyparis pisifera | sawara-false cypress | F |
| | squarrosa-moss cypress | F |
| Chamaedorea cataractarum | cat palm | F |
| | palm | C, F |
| Chamaedorea costaricana | palm | C, F |
| Chamaedorea elegans | parlor palm | C, F |
| Cornus florida | cloud nine dogwood | C, F |
| | dogwood, flowering | C, F |
| Crataegus viridis | green hawthorn | F |
| Cryptomeria japonica | cryptomeria, Japanese | C, F |
| Cupaniopsis anacardioides | carrot wood | F |
| Cupropositorio | amorald island layland augusts | $\sim r$ |

| Cupaniopsis anacardioides | carrot wood |
|-------------------------------------|--|
| Cupressocyparis x 'Emerald Isle' | emerald island leyla |
| Cupressus arizonica | Arizona cypress |
| Cupressus glabra | Arizona cypress |
| Cupressus sempervirens | Italian cypress |
| Dicksonia antarctica | Tasmanian tree fern |
| Elaeagnus angustifolia | Russian olive |
| Elaegnus x 'Gilt edge' | gilt edge silverberry |
| Eucalyptus camaldulensis | red gum eucalyptus |
| Eucalyptus cinerea | eucalyptus, mealy silver dollar eucalyp |
| Eucalyptus microtheca | coolibah tree |

banana

sourwood

pendula-weeping Norway

repens-spreading Norway

| Fraxinus udhei |
|-----------------------|
| Ginkgo biloba |
| Gleditsia triacanthos |

Ficus benjamina

Eucalyptus sideroxylon

Heteromeles arbutiflora

| Picea glauca |
|---------------------|
| Picea glauca conica |
| Picea pungens |
| |

Picea abies

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| |
| Discourse of Asia |
| Pinus aristata |
| Pinus canariensis |
| FILIUS CALIALICIISIS |
| Pinus contorta |
| D' L' L' |
| Pinus eldarica |
| Pinus leucodermis |
| i inus ieucodennis |
| Pinus mugo |
| |
| |
| Pinus nigra |
| , ,,,ao ,,,g,,a |

| carrot wood | F, 1 |
|-------------------------------|------|
| emerald island leyland cypres | • |
| Arizona cypress | C, F |
| Arizona cypress | F |
| Italian cypress | C, F |
| Tasmanian tree fern | C, F |
| Russian olive | C, F |
| gilt edge silverberry | C, F |
| red gum eucalyptus | F |
| eucalyptus, mealy | F |
| silver dollar eucalyptus | F |
| coolibah tree | C, F |
| eucalyptus, red ironbark | F |
| ficus | C, F |
| mini ficus | C, F |
| shamel ash | C, F |
| ginkgo (maidenhair tree) | F |
| honey locust | F |
| shademaster honey locust | F |
| toyon | F |
| Florida anise-tree | C, F |
| redcedar, eastern | C, F |
| sweetgum, American | F |
| magnolia, southern | C, F |
| white mulberry | F |

spruce spruce, Norway C, F conica-dwarf Alberta spruce C, F dwarf Alberta spruce dwarf globe blue spruce C, F glauca-Colorado blue spruce C, F hoopsii-hoop's blue spruce C, F koster-koster blue spruce F bristlecone pine F canary island pine F shore pine, beach pine F eldarica pine C, F Bosnian pine C, F pumilio-shrubby swiss C, F mountain pine

C, F

C, F

C, F

C, F

C, F

Austrian black pine

| Trees (Cont.) | | nent Method: tainer Grown Field Grown | Shrubs (Cont.) | | iner Grown |
|--|-----------------------------|---|-----------------------------------|-----------------------------|-------------|
| Scientific Name | Common Name | rield Grown | Scientific Name | Common Name | Field Grown |
| Pinus radiata | monterey pine | F | Calluna vulgaris | spring torch Scotch heather | C, F |
| Pinus strobus | eastern white pine | C, F | Camellia japonica | camellia | C, F |
| Pinus strobus | white pine | C, F | Caryopteris x clandonen | dark knight bluebeard | C, F |
| Pinus sylvestris | columnar Scotch pine | C, F | Cassia artemisioides | cassia, feathery | C, F |
| • | Scotch pine | C, F | Ceanothus spp. | wild lilac | F |
| Pinus thunbergiana | Japanese black pine | C, F | Cephalotaxus drupacae | plum yew | C, F |
| Platanus occidentalis | American sycamore | F | Cerastium tomentosum | snow-in-summer | C, F |
| Platanus racemosa | Califorina sycamore | F | Chamaecyparis obtusa | kosteri cypress | C, F |
| Podocarpus spp. | podocarpus | F | 3, | nana-dwarf hinoki cypress | C, F |
| Populus deltoides | cottonwood | F | | torulosa cypress | C, F |
| Prosopis chilensis | Chilean mesquite | C, F | Chamaecyparis pisifera | baileyi-dogwood | F. |
| Prunus yedoensis | yoshino flowering cherry | F | | flaviramea-dogwood | F |
| Quercus ilicifolia | bear oak | F | | squarrosa minima cypress | C, F |
| Quercus palustris | pin oak | F | Chamaecyparis pisifera spp. | filifera-thread cypress | C, F |
| Quercus phellos | willow oak | C, F | Chrysalidocarpus lutescens | areca palm | F |
| Quercus rubra | red oak | C, F | Clethra alnifolia | summersweet | C, F |
| Quercus virginiana | live oak | C, F | Cleyera japonica | cleyera, Japanese | C, F |
| Salix babylonica | babylon weeping willow | F, 1 | Coleonema pulchrum | pink breath of heaven | C, F |
| Gailx babylorilea | corkscrew willow | F | • | • | |
| Sequoiadendron giganteum | | F | Convolvlus cneorum Cornus alba | bush morning glory | C, F |
| Swietenia mahogani | giant sequoia | F | Cornus alba Cornus stolonifera | sibirica-Siberian dogwood | C, F |
| Swietenia manogani Tabebuia caraiba | mahogany vellow tab | F | Cornus stolonirera | baileyi-red-osier dogwood | F |
| | • | | | flaviramea-yellowtwig | F |
| Tsuga canadensis | eastern hemlock | C, F | Cations | dogwood | 0.5 |
| Ulmus parvifolia | Chinese elm | F - | Cotinus coggygria | royal purple smoke tree | C, F |
| Washingtonia robusta | Mexican fan palm | F | Cotinus dammeri | coral beauty smoke tree | C, F |
| Shrubs | Recommended Treatm | ent Method | 0-1 | eichholz smoke tree | C, F |
| Gili dos | | ainer Grown | Cotoneaster adpressus | praecox-early cotoneaster | C, F |
| | | Field Grown | Cotoneaster apiculatus | cotoneaster, cranberry | C, F |
| Scientific Name | Common Name | | Cotoneaster congestus | cotoneaster, Pyrenees | C, F |
| Abelia grandiflora | edward goucher abelia | C, F | Cotoneaster dammeri | cotoneaster, bearberry | C, F |
| _ | glossy abelia | C, F | Cotoneaster himalayan | Himalayan cotoneaster | C, F |
| Acacia abyssinica | abyssinica acacia | C, F | Cotoneaster horizontalis | cotoneaster, rock | C, F |
| Acacia redolens | acacia, prostrate | C, F | Cotoneaster opiculata | cotoneaster | C, F |
| Acacia stenophylla | shoestring acacia | C, F | Cycas revoluta | sago palm | C, F |
| Acalypha wilkesiana | copper leaf | C, F | Cytisus praecox | hollandia-warminster broom | C, F |
| Acer ginnala | amur maple | C, F | Cytisus scoparius | lena-Scotch broom | C, F |
| Acer palmatum | coral bark Japanese maple | C, F | Cytisus spp. | holandia-Scotch broom | F |
| | dwarf Japanese maple | C, F | Daphne odora | fragrant daphne | C, F |
| Agapanthus africanus | queen anne lily of the nile | C, F | Deutzia crenata | nakiana-dwarf deutzia | C, F |
| Agave americana | century plant | F, 1 | Deutzia gracilis | slender gracilis | C, F |
| Anisodontea hypomandarum | cape mallow | C, F | Dodonea viscosa | hopseed bush | F |
| Aptenia cordifolia | red apple aptenia | C, F | Elaeagnus pungens | fruitland silver berry | C. F |
| Ardisia japonica | chirimen marlberry | C, F | Erica cinerea | purple bell heather | C, F |
| Astible arendsii | false spiraea | C, F | Erica vagans | cornish heather | C, F |
| Astilbe chinensis | astilbe/false spirea | | Erica x darleyensa | Mediterranean pink heather | C, F |
| Athyrium nipponimcum | | C, F | Eugenia myrtifolia | dwarf brush cherry | C, F |
| | Japanese painted fern | C, F | Euonymus x 'Aureo variegatus' | gold spot euonymus | C, F |
| Baccharis pilularis | coyotebush | F | Euonymus x 'Chollipo" | chollipo eunoymus | C, F |
| Berberis gladwynensii | william penn barberry | C, F | Euonymus fortunei | сапаdale gold euonymus | C, F |
| Berberis mentorensis | mentor barberry | C, F | Edonymoo fortamor | emerald'n gold euonymus | F |
| Berberis thunbergii | aurea-golden Japanese | F | | sunspot euonymus | C, F |
| | barberry | | Euonymus japonica | silver king euonymus | F. |
| | crimson pygmy barberry | C, F | Luonymus japomea | 9 , | |
| | rose glow barberry | C, F | | variegated evergreen | C, F |
| | atropurea-redieaf Japanese | F | Euonymus kiatschovica | euonymus | C F |
| | barberry | | Euonymus vegetus | spreading euonymus | C, F |
| - · · · | cherry bomb barberry | C, F | , , | bigleaf wintercreeper | C, F |
| Bougainvillea spp. | barbara karst | C, F | Euryops pectinatus | dwarf euryops | C, F |
| | California gold | C, F | Fatshedera japonica | lamanana seelle | C, F |
| | pink pixie | C, F | Fatsia japonica | Japanese aralia | C, F |
| | scarlet o'hara | C, F | Felicia ameloides | blue marguerite | C, F |
| | temple fire | C, F | Forsythia intermedia | forsythia, border | C, F |
| | Texas dawn | C, F | Forsythia x 'Spring glory' | spring glory forsythia | C, F |
| Buxus x 'Green velvet' | green velvet boxwood | C, F | Gardenia jasminoides | august beauty gardenia | C, F |
| Buxus microphylla japonica | boxwood, Japanese | C, F | | gardenia | C, F |
| Buxus microphylla Koreana | Korean boxwood | F | | radican gardenia | C, F |
| Buxus sempervirens | boxwood, common | C, F | Gaultheria shallon | salal/lemon leaf | C, F |
| Callistemon citrinus | bottlebrush, lemon | F. | Gelsemium sempervirens | Carolina jessamine | C, F |
| Callistemon viminalis | weeping bottlebrush | C. F | Genista pilosa | woadwaxen | C, F |
| | | -, . | | | - |

| Shrubs (Cont.) | | ent Method iner Grown ield Grown | Shrubs (Cont.) | | ent Method iner Grown ield Grown |
|------------------------|---------------------------------|--|-----------------------------|----------------------------------|--|
| Scientific Name | Common Name | | Scientific Name | Common Name | .0.0 0.0 |
| Hibiscus rosa-sinensis | ross estey-hibiscus | C, F | Lantana spp. | lantana | C, F |
| Hibiscus syriacus | rose of sharon, red bird | C, F | Lavandula angustifolia | English lavander | C, F |
| ····· | rose of sharon, red heart | F | Lavandula latifolia | English spike lavander | C, F |
| | rose of sharon, woodbridge | C, F | Lavandula officianalis | English lavander | C, F |
| | rose of sharon, aphrodite | 0,1 | Leptospermum scoparium | New Zealand tea tree | |
| | rose of sharon, helene | | | | C, F |
| llov og vifolium | • | - | Leucothoe axillaris | leucothoe, coast | C, F |
| llex aquifolium | Balkans holly | F | Leucothoe fontanesiana | leucothoe, drooping | C, F |
| | gold coast holly | F | Ligustrum japonicum | privet, Japanese | C, F |
| llex aquipernyi | san jose holly | C, F | | wax ligustrum | C, F |
| llex attenuata | savannah holly | C, F | | yellow tip ligustrum | C, F |
| llex comuta | burford holly | C, F | Ligustrum lucidum | privet, glossy | C, F |
| | dwarf burford holly | C, F | Ligustrum ovalifolium | California privet | F |
| | needle point holly | C, F | Ligustrum texanum | howardi privet | C, F |
| llex crenata | compacta-dwarf | C, F | | wax leaf privet | C, F |
| | Japanese holly | | Ligustrum vicaryi | privet, golden | F |
| llex crenata | convexa holly | C, F | • | vicary golden privet | F |
| | dwarf Chinese holly | C, F | Ligustrum vulgare | lodense privet | C, F |
| | green luster holly | C, F | Livistona chinensis | Chinese fountain palm | F. |
| | helleri-heller's Japanese holly | C, F | Lonicera fragrantissima | winter honeysuckle | C, F |
| | hetzii's Japanese holly | C, F | Lonicera periclymenum | flowering woodbine | C, F |
| | stokesii Japanese holly | C, F | Lonicera periciymenam | serotina woodbine | C, F |
| llex glabra | compacta-compact | C, F | I aniana anno aniana | | C, F |
| nox glabia | inkberry holly | 0, 1 | Lonicera sempervirens | trumpet honeysuckle | C, F |
| | nordica-inkberry holly | C, F | Loropetalum chinense | fringe flower | C, F |
| llex meserveae | blue boy holly | C, F | Mahonia aquifolium compacta | dwarf Oregon grape | C, F |
| liex lileselveae | | | Mahonia bealei | leather leaf mahonia | C, F |
| | blue girl holly | C, F | Mahonia repens | creeping mahonia | C, F |
| | China boy holly | | Myrica cerifera | wax myrtle | C, F |
| | China girl holly | _ | Nandina domestica | compacta-dwarf heavenly | C, F |
| | ebony magic holly | F | | bamboo | |
| llex vomitoria | nana-dwarf yaupon holly | C, F | | harbour dwarf-heavenly | C, F |
| | pendula-weeping | C, F | | bamboo | |
| | yaupon holly | | | heavenly bamboo (nandina) | C, F |
| | yaupon holly | C, F | | nana compacta-heavenly | C, F |
| Illicium annisatum | mystery gardenia | C, F | | bamboo | |
| Itea ilicifolia | henry garnet holly leaf | C, F | | nana purpurea-heavenly | C, F |
| | sweetspire | | | bamboo | |
| lxora collinea | ixora | C, F | | woods dwarf-heavenly | C, F |
| Juniperus chinensis | hollywood juniper | C, F | | bamboo | |
| | media-old gold juniper | C, F | Nerium oleander | hardy red oleander | C, F |
| | pfitzer juniper | C, F | | oleander | C, F |
| | pfitzerana glauca-blue juniper | C, F | | ruby lace oleander | C, F |
| | pfitzerana-pfitzer juniper | C, F | Osmanthus fortunei | fortunes osmanthus | C, F |
| | sea green juniper | F | Pachysandra terminalis | Japanese spurge | C, F |
| | torulosa-hollywood juniper | C, F | Phoenix roeloelenii | pigmy date palm | C, F |
| Juniperus conferta | emerald sea shore juniper | C, F | Photinia fraseri | fraser's photinia | C, F |
| oumperus comenta | | | Pieris japonica | | |
| lucinos o hesisentelia | shore juniper | C, F | r ieris japoriica | lily-of-the-valley | C, F |
| Juniperus horizontalis | andorra juniper | C, F | | mountain fire lily-of-the-valley | C, F |
| | bar harbor juniper | C, F | | snowdrift lily-of-the-valley | C, F |
| | blue chip juniper | C, F | | temple bells lily-of-the-valley | C, F |
| | blue rug juniper | C, F | | valley rose lily-of-the-valley | C, F |
| | creeping juniper | C, F | | valley valentine lily-of-the- | C, F |
| | dwarf andorra juniper | C, F | | valley | |
| | huntington blue juniper | C, F | Pieris japonica x forestii | forest flame lily-of-the-valley | C, F |
| | plumosa-andorra juniper | C, F | Pinus mugo | mugo-mugho pine | C, F |
| | wiltonii-blue carpet juniper | C, F | Pittosporum tobira | green pittosporum | C, F |
| Juniperus procumbens | nana-dwarf Japaneses | C, F | | wheeler's dwarf pittosporum | C, F |
| | garden juniper | | Plumbago ariculata | blue cape plumbago | F |
| Juniperus prostrata | prostrata juniper | C, F | Plumbago capensis | plumbago | C, F |
| Juniperus sabina | broadmoor juniper | C, F | Podocarpus macrophyllus | yewpine | C, F |
| • | foemina-hicks juniper | C, F | Polygala dalmaisiana | sweet pea shrub | C, F |
| | savin juniper | C, F | Polystichum polyblepharum | tassel fern | C, F |
| | tamariscifolia-tam juniper | C, F | Potentilla fragiformis | cinquefoil | F |
| Juniperus scopulorum | emerald green juniper | F. | Potentilla fruticosa | cinquefoil | C, F |
| | | | . Starting // Gliovati | | F. |
| Juniperus squamata | blue juniper | C, F | | gold drop pontentilla | |
| | blue star juniper | C, F | | goldfinger potentilla | C, F |
| W-1 1-48-11- | parsonii juniper | C, F | | red ace potentilla | C, F |
| Kalmia latifolia | laurel, mountain | C, F | | sunset potentilla | C, F |
| Lagerstroemia indica | crepe myrtle | C, F | | tangerine potentilla | C, F |

| Shrubs (Cont.) | | ent Method iner Grown ield Grown | Shrubs (Cont.) | Recommended Treatme | |
|--|-----------------------------------|--|-------------------------------|---|--------------|
| Scientific Name | Common Name | icia aiomii | Scientific Name | Common Name | eld Grown |
| Potentilla verna | spring cinquefoil | C, F | Rhododendron spp. hybrids | carror azalea | C, F |
| Prunus gladulosa | dwarf pink flowering | C, F | r mode donaron opp. Hybrido | fashion azalea | C, F |
| g | almond | 0, 1 | | gerard christina azalea | F. |
| Pyracantha fortuneana | lolendei monrovia pyracantha | C, F | | girard roberta azalea | C, F |
| , | monon pyracantha | F | | golden flare exbury azalea | F. |
| | red elf hybrid pyrcantha | F | | | |
| | rutgers hybrid pyracantha | C, F | | helmut vogel azalea hershey red azalea | F F |
| | santa cruz pyracantha | C, F | | hot shot azalea | |
| | victory pyracantha | F. | | | C, F |
| Rhaphiolepis indica | charisma-monruce | C. F | | hume azalea | F |
| | rhaphiolepis | 0, 1 | | inga azalea irene koster azalea | F |
| | enchantress-moness | F | | | C, F |
| | rhaphiolepis | _ | | president clay azalea | C, F |
| | rhaphiolepsis (India hawthorn) | C, F | Dhua lanasa | tradition azalea | C, F |
| | springtime-monme | F [′] | Rhus lancea | sumac, African | C, F |
| | rhaphiolepis | | Rosa rugosa | ramanas rose | C, F |
| Rhaphiolepis ovata | roundleaf rhaphiolepis | C, F | Rosmarinus officinalis | rosemary | F |
| Rhododendron calendulaceum | cannon's double azalea | C, F | Senecio cineraria | dusty-miller/silver ragweed | C, F |
| | flame azalea | F | Skimmia japonica | Japanese skimmia | C, F |
| | golden flare azalea | C, F | Skimmia revesiana | reeve's skimmia | C, F |
| | klondike azalea | C, F | Solanum rantonetii | Paraguay nightshade | C, F |
| Rhododendron | butterfly rhododendron | F | Spiraea bumalda | anthony waterer spiraea | C, F |
| campylocarpum | • | | Spiraea x cinerea 'Grefsheim' | first snow spiraea | |
| Rhododendron carolinianum x | PJM rhododendron | C, F | Spiraea japonica | dolchia spiraea | C, F |
| daurium | | | | Japanese alpine spiraea | C, F |
| Rhododendron catawbiense | catawba album rhododendron | C, F | | shirobana spiraea | C, F |
| | catawba rhododendron | C, F | Spiraea vanhouttei | bridal wreath | C, F |
| | lord roberts rhododendron | C, F | Syringa rothomagensis | Chinese lilac | C, F |
| | rocket rhododendron | C, F | Syringa vulgaris | lilac, common | F |
| Rhododendron caucasium x | cunningham white | C, F | Taxus cuspidata | yew, Japanese | F |
| ponticum | rhododendron | -,- | Tecomaria capensis | cape honeysuckle | C, F |
| Rhododendron exbury | cannon's double azalea | C, F | Ternstroemia gymnanthera | ternstroemia, Japanese | C, F |
| · | golden flare azalea | C, F | Thuja occidentalis | emerald arborvitae | C, F |
| | klondike azalea | C, F | | globosa-globe arborvitae | C, F |
| Rhododendron forrestii repens | gomer waterer rhododendron | C, F | | little giant-dwarf arborvitae | C, F |
| Rhododendron forrestii x | elizabeth rhododendron | C, F | | nigra-dark American arborvitae | |
| griersonianum | | -, - | | pyramidalis arborvitae | C, F |
| Rhododendron griffithianum | jean marie rhododendron | C, F | | rheingold arborvitae | C, F |
| Rhododendron hybrid spp. | America rhododendron | C, F | | techny arborvitae | F |
| | English roseum rhododendron | F | Thuja occidentalis | woodwardii arborvitae | C, F |
| | nova zembla rhododendron | C, F | Thuia orientalis | aureus nana-dwarf golden | C, F |
| | scintillation rhododendron | C, F | , | arborvitae | 0, . |
| Rhododendron impeditum | rhododendron | C, F | | minima glauca-dwarf | C, F |
| Rhododendron indica | formosa azalea | C, F | | arborvitae | -, . |
| Rhododendron indica | waucabusa azalea | C, F | Veitchia merrilli | Christmas palm | F |
| Rhododendron kaempferi | blue danube azalea | C, F | Viburnum bodnantense | pink dawn viburnum | C, F |
| Rhododendron kerume | coral bells azalea | C, F | Viburnum carlesii | Koreanspice viburnum | C, F |
| | hino crimson azalea | C, F | Viburnum davidii | david viburnum | C, F |
| | hino pink azalea | C, F | Viburnum japonicum | viburnum | F |
| | mildred azalea | C, F | Viburnum judd (v. X juddii) | viburnum | C, F |
| | snow azalea | C, F | Viburnum lantana | wayfaring tree | F |
| Rhododendron maximum | rhodie max (rosebay) | C, F | Viburnum opulus sterile | common snowball viburnum | F |
| Rhododendron mucronulatum | rhododendron | Б, I | Viburnum plicatum | doublefile viburnum | C, F |
| Rhododendron obtusum | hino-crimsom azalea | C, F | tomentosum | | 0, 1 |
| Rhododendron ponticum | chioniodes rhododendron | | Viburnum setigerum | tea viburnum | F |
| Rhododendron ponticum | | C, F | Viburnum tinus compactum | spring bouquet viburnum | F |
| | daphinoides rhododendron | C, F | Viburnum trilobum | | C, F |
| Rhododendron x 'purple gem' Rhododendron racemosum | purple gem rhododendron | C, F | Viburnum trilobum compactum | | C, F |
| knododenaron racemosum | dwarf scarlet wonder rhododendron | C, F | Viburnum x pragense | | C, F |
| | | C E | Weigela florida | | C, F |
| | tribly rhododendron | C, F | goid nondd | | C, F |
| | unique rhododendron | C, F | | | C, F |
| Dhadadandranthi-i-ti | vulcan rhododendron | C, F | Xylosma congestum | xylosma | F. |
| Rhododendron sassthigiatim x carolinianum | ramapo rhododendron | C, F | Yucca filamentosa | | r C, F |
| Rhododendron satuski | gumpo pink azalea | C, F | | , | ○ , 1 |
| | higasa azalea | F. | | | |
| | reijn azalea | C, F | | | |
| | - agr - sameness | ٠, . | | | |

| Groundcovers/ |
|---------------|
| Perennials |

Recommended Treatment Method: C = Container Grown F = Field Grown

Groundcovers/ Perennials (Cont.)

Recommended Treatment Method: C = Container Grown F = Field Grown

| Onland Control | | eld Grown | refermals (Cont.) | | F = Field Gro |
|--------------------------------|---|-----------|-------------------------------|--|---------------|
| Scientific Name | Common Name | | Scientific Name | Common Name | |
| Achillea millefolium | common yarrow | C, F | Heuchera micrantha | coral bells | C, F |
| Agapanthus africanus | lily of the nile | C, F | Hippeastrum hybrid | amaryllis | C, F |
| Agapanthus "Peter Pan" | | C, F | Hosta 'Francee' | francee plantain lily | C, F |
| Alstroemeria aurea | Peruvian lily | C, F | Hosta lancifoila | albo-marginata hosta | C, F |
| Ammophila breviligulata | beechgrass | C, F | Hosta 'Patriot' | patriot plantain lily | C, F |
| Antirrhinum majus | snapdragon | C, F | Hymenoxys acaulis | angelita daisy | C, F |
| Arctotheca calendula | cape weed | F | Hypericum spp. | St. Johnswort | C, F |
| Argyranthemum frutescens | Paris daisy | C, F | Impatiens wallerana | busy lizzie | C, F |
| Artemisia schmidtiana | angels' hair | C, F | Iris pumila | yellow dwarf bearded iris | |
| Asparagus retrofractus | fern | C, F | Iris siberica | blue siberian iris | C, F |
| Asteriscus maritimus | gold coin daisy | C, F | Jasminum nitidum | angelwing jasmine | C, F |
| Astilbe Deutschland | deutschland astilbe | C, F | Lampranthus spectabilis | trailing iceplant | F, . |
| Asparagus retrofractus | | C, F | Leptospermum scoparium | broom teatree/manuka | C, F |
| Asparagus variegata | tree fern | C, F | Liatris spicata | gay feather | C, F |
| Aster novae-angliae | New England aster | C, F | Limonium perezii | statice | C, F |
| Aster novi-belgii | New York aster | C, F | Liriope gigantea | white lily turf | C, F |
| Begonia cordifolia | heartleaf begonia | C, F | Liriope muscari | lilac beauty lily turf | C, F |
| Begonia semperflorens | white ambassador begonia | C, F | zinopo maddan | majestic lily turf | C, F |
| Bidens ferulifolia | peter's gold bidens | C, F | | monroe white lily turf | C, F |
| Brachycome x 'New amethys | | C. F | | silvery sunproof lily turf | C, F |
| Callistepeus chinensis | China aster | C, F | | variegated liriope lily turf | |
| Carex spp. | sedge | C, F | | big blue lily turf | |
| Carpobrotus edulis | ice plant, largeleaf | F | Liriope spicata | green/creeping lily turf | C, F |
| Catharanthus roseus | Madagascar periwinkle | C, F | Lobelia erinus | lobelia | C, F |
| Cerastium tomentosum | snow in the summer | C, F | Lobularia maritima | sweet alyssum | C, F C, F |
| Ceratostigma plumbaginoide | | C, F | Lonicera japonica | • | |
| Chrysanthemum morifolium | florist's chrysanthemum | C, F | Lysimachia punctata | honeysuckle, Japanese dotted loosestrife | F |
| Chrysanthemum sp. | chrysanthemum species | C, F | Mathiola incana | | C, F |
| Clematis integrifolia caerulea | | C, F | Miscanthus sinensis | stock | C, F |
| Clivia miniata | kafir lily | C, F | | eulalia grass | C, F |
| Coreopsis verticillata | coreopsis, threadleaf | C, F | Monarda didyma | bee balm | C, F |
| Cortaderia selloana | pampas grass | C, F | Moraea iridiodes | African iris | C, F |
| Cuphea hyssopifolia | false or Mexican heather | C, F | Oenothera speciosa | siskiyou evening primros | • |
| Cyperus albostriatus | dwarf umbrella grass | C, F | Ophiopogon japonicus | dwarf mondo grass | C, F |
| Dahlia x 'Royal dahlietta pink | | C, F | Onto a community of | mondo grass | C, F |
| Delosperma alba | white iceplant | Б, F | Osteospermum fruticosum | freeway daisy | C, F |
| Descampsia caespitosa | descampsia | C, F | Pachysandra terminalis | Japanese spurge | C, F |
| Dianthus gratianopolitanus | • | | Parthenocissus quinguefolia | Virginia creeper | C, F |
| Dietes vegeta | crimson treasure cheddar pink fortnight lily | | Pelargonium x hortorum | zonal geranium | C, F |
| Drosanthemum floribundum | 0 , | C, F F | Pelargonium peltatum | ivy geranium | C, F |
| Drosantheumum hispidum | trailing rosea iceplant | | Pennisetum alopecuroides | fountain grass | C, F |
| Ensete ventricosum | iceplant | C, F | Pennisetum setaceum | chrimson fountaingrass | C, F |
| | red abyssinian banana | C, F | Pentas lanceolata | star cluster | C, F |
| Equisetum scirpoides | dwarf horsetail | C, F | Penstemon x 'Apple blossom' | apple blossom penstemo | • |
| Erianthus ravennae | hardy pampasgrass | C, F | Penstemon gentianoides | hartwig penstemon | C, F |
| Erysimum "Bowles mauve" | wallflower | C, F | Perovskia atriplicifolia | Russian sage | C, F |
| Euryops pectinatus | dwarf euryops | C, F | Petunia-hybrids | garden petunias | C, F |
| Eustoma grandiflorum | pink lisianthus | C, F | Phalaris arundinacea picta | ribbon grass | C, F |
| Festuca ovina glauca | blue fescue | C, F | Ratibida columnifera | Mexican hat | C, F |
| Fuchsia x 'Santa Claus' | santa claus fuchsia | C, F | Rudbeckia fulgida | blackeyed susan | C, F |
| Gaillardia aristata | blanket flower | C, F | Rudbeckia hirta | blackeyed susan | C, F |
| Gaillardia grandiflora | goblin blanket flower | C, F | Ruellia brittoniana | dwarf katie ruellia | C, F |
| Gaura lindheimeri | gaura | C, F | Salvia grahamii | graham's sage | C, F |
| Gazania rigens leucolaena | gazania, trailing | C, F | Salvia leucantha | Mexican bush sage | C, F |
| Gazania spp. | gazania | C, F | Sedum x 'Autumn joy' | autumn joy stonecrop | C, F |
| Geranium incanum | cranesbill | C, F | Sedum x 'Vera jameson' | vera jameson stonecrop | C, F |
| Geranium subcaulescens | blackeyed magenta cranesbill | C, F | Targetes patula 'Little hero' | little hero marigold | C, F |
| Hakonechioa macroaureola | golden hakonechloa | C, F | | | |
| Hedera canariensis | ivy, Algerian | F. | Trachelospermum asiaticum | asian jasmine | C, F |
| Hedera helix | ivy, English | C, F | Tulbaghia violacea | society garlic | C, F |
| Helichrysum petiolatum | white licorice plant | C, F | Verbena peruviana | st. paul verbena | C, F |
| Hemerocallis spp. | daylily | C, F | Vinca major | periwinkle, bigleaf | C, F |
| Hesperaloe parviflora | red yucca | C, F | Vinca minor | periwinkle, dwarf | F |
| Heuchera americana | | | Vinca spp. | periwinkle | F |
| i iodonora amendana | palace purple | C, F | Zinnia elegans | dwarf zinnia | C, F |
| | | | | | |

| Non-Bearing Fruit and Nut Trees | Recommended Treatment Method: |
|------------------------------------|-------------------------------|
| Non-bearing Vineyards ¹ | C = Container Grown |
| Common Name | F = Field Grown |
| almond | F |
| apple | F |
| apricot | F |
| avocado | F |
| blackberry | F |
| blueberry | F |
| boysenberry | F |
| cherry, sour | F |
| cherry, sweet | F |
| currant | F |
| dewberry | F |
| elderberry | F |
| fig | F |
| filbert | F |
| gooseberry | F |
| grape, American | F |
| grape, European | F |
| grapefruit | F |
| kiwi | <u>F</u> |
| lemon | F |
| loganberry | F |
| macadamia nut | <u>F</u> |
| nectarine | F |
| olive | <u>F</u> |
| orange | <u>F</u> |
| peach | <u>F</u> |
| pear | <u>F</u> |
| pecan | F |
| pistachio | F |
| plum | <u>F</u> |
| pomegranate | Ę |
| prune | F |
| raspberry | F |
| walnut, black | F _ |
| walnut, English | F |

¹Non-bearing fruit and nut trees and non-bearing vineyards are defined as plants which will not bear fruit for at least one year after treatment.

Ornamental Bulbs

Do not use Snapshot 2.5 TG in bulb production fields. For use in landscape settings only.

Snapshot 2.5 TG may be applied for control of susceptible annual weeds in ornamental bulbs, e.g., bulbous iris, daffodil (narcissus), hyacinth and tulip. Apply Snapshot 2.5 TG to the soil surface 2 to 4 weeks after planting, but prior to the emergence of annual weeds. Snapshot 2.5 TG may also be applied following bulb emergence but prior to flowering and after flowering. For fall planted bulbs, apply Snapshot 2.5 TG again in late winter or early spring to weed-free soil surfaces.

Special Use Precautions:

Do not apply to tulip plants that have emerged to a height greater than 3/4 inch.

Do not apply to gladiolus prior to emergence or if corms are less than one inch in diameter.

Do not apply to bulbs while they are flowering.

Shadehouse Areas

Snapshot 2.5 TG may be applied in open shadehouse-type structures where the natural flow of air is unimpeded. Do not apply in enclosed greenhouses or in enclosed shadehouse-type structures. Do not apply within three weeks prior to enclosing greenhouse or poly-type structures.

Non-Cropland

Snapshot 2.5 TG is recommended as a preemergence treatment for control of certain broadleaf weeds and annual grasses on non-cropland areas such as industrial sites, utility substations, highway guardrails, sign posts, delineators, etc. Apply Snapshot 2.5 TG anytime prior to germination of target weeds. Areas to be treated should be free of established weeds or existing weeds should be controlled with postemergence herbicides.

Refer to the General Information section of this label for General Use Precautions and information on Application, Application Rates, and Weeds Controlled.

Terms and Conditions of Use

If terms of the following Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies are not acceptable, return unopened package at once to the seller for a full refund of purchase price paid. Otherwise, use by the buyer or any other user constitutes acceptance of the terms under Warranty Disclaimer, Inherent Risks of Use and Limitations of Remedies.

Warranty Disclaimer

Dow AgroSciences warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. Dow AgroSciences MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

Inherent Risks of Use

It is impossible to eliminate all risks associated with use of this product. Plant injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label, such as unfavorable temperature, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of Dow AgroSciences or the seller. All such risks shall be assumed by buyer.

Limitation of Remedies

The exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories), shall be limited to, at Dow AgroSciences' election, one of the following:

- 1. Refund of purchase price paid by buyer or user for product bought, or
- 2. Replacement of amount of product used.

Dow AgroSciences shall not be liable for losses or damages resulting from handling or use of this product unless Dow AgroSciences is promptly notified of such loss or damage in writing. In no case shall Dow AgroSciences be liable for consequential or incidental damages or losses.

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Produced for Dow AgroSciences LLC 9330 Zionsville Road Indianapolis, IN 46268

Label Code: CD02-082-020 Replaces Label: D02-082-018

EPA accepted 03/20/02

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SAFETY DATA SHEET

DOW AGROSCIENCES LLC

Product name: SNAPSHOT™ 2.5 TG HERBICIDE

Issue Date: 05/15/2015 Print Date: 05/26/2015

DOW AGROSCIENCES LLC encourages and expects you to read and understand the entire (M)SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

1. IDENTIFICATION

Product name: SNAPSHOT™ 2.5 TG HERBICIDE

Recommended use of the chemical and restrictions on use

Identified uses: End use herbicide product

COMPANY IDENTIFICATION

DOW AGROSCIENCES LLC 9330 ZIONSVILLE RD INDIANAPOLIS IN 46268-1053 UNITED STATES

Customer Information Number:

800-992-5994

info@dow.com

EMERGENCY TELEPHONE NUMBER

24-Hour Emergency Contact: 800-992-5994 **Local Emergency Contact:** 352-323-3500

2. HAZARDS IDENTIFICATION

Hazard classification

This material is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

Acute toxicity - Category 3 - Inhalation Carcinogenicity - Category 1A

Specific target organ toxicity - repeated exposure - Category 1

Label elements Hazard pictograms





Signal word: DANGER!

Hazards

Toxic if inhaled.

May cause cancer.

Causes damage to organs through prolonged or repeated exposure.

Precautionary statements

Prevention

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

Wash skin thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

Use personal protective equipment as required.

Response

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician.

IF exposed or concerned: Get medical advice/ attention.

Storage

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

Disposal

Dispose of contents/ container to an approved waste disposal plant.

Other hazards

no data available

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is a mixture.

| Component | CASRN | Concentration |
|------------------------------|---------------|---------------------|
| | | |
| Isoxaben | 82558-50-7 | 0.5% |
| Trifluralin | 1582-09-8 | 2.0% |
| Clays, Fuller's earth | 8031-18-3 | >= 78.5 - <= 86.4 % |
| Silica, crystalline (quartz) | 14808-60-7 | >= 0.9 - <= 8.7 % |
| Balance | Not available | >= 2.4 - <= 18.1 % |

4. FIRST AID MEASURES

Description of first aid measures

General advice: First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Inhalation: Move person to fresh air. If person is not breathing, call an emergency responder or ambulance, then give artificial respiration; if by mouth to mouth use rescuer protection (pocket mask etc). Call a poison control center or doctor for treatment advice. If breathing is difficult, oxygen should be administered by qualified personnel.

Skin contact: 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.

Eye contact: 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 eyes. Call a poison control center or doctor for treatment advice.

Ingestion: 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 the poison control center or doctor. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed: Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

Indication of any immediate medical attention and special treatment needed

Notes to physician: No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. Have the Safety Data Sheet, and if available, the product container or label with you when calling a poison control center or doctor, or going for treatment.

5. FIREFIGHTING MEASURES

Suitable extinguishing media: This material does not burn. If exposed to fire from another source, use suitable extinguishing agent for that fire.

Unsuitable extinguishing media: no data available

Special hazards arising from the substance or mixture

Hazardous combustion products: Under fire conditions some components of this product may decompose. The smoke may contain unidentified toxic and/or irritating compounds. Combustion products may include and are not limited to: Nitrogen oxides. Hydrogen fluoride. Carbon monoxide. Carbon dioxide.

Unusual Fire and Explosion Hazards: None known.

Advice for firefighters

Fire Fighting Procedures: Keep people away. Isolate fire and deny unnecessary entry. Foam fire extinguishing system is preferred because uncontrolled water can spread possible contamination.

This material does not burn. Fight fire for other material that is burning. Contain fire water run-off if possible. Fire water run-off, if not contained, may cause environmental damage. Review the "Accidental Release Measures" and the "Ecological Information" sections of this (M)SDS.

Special protective equipment for firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Keep upwind of spill. Spilled material may cause a slipping hazard. Ventilate area of leak or spill. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

Environmental precautions: Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

Methods and materials for containment and cleaning up: Contain spilled material if possible. Small spills: Sweep up. Collect in suitable and properly labeled containers. Large spills: Contact Dow AgroSciences for clean-up assistance. See Section 13, Disposal Considerations, for additional information.

7. HANDLING AND STORAGE

Precautions for safe handling: Keep out of reach of children. Do not swallow. Avoid breathing dust or mist. Avoid contact with eyes, skin, and clothing. Use with adequate ventilation. Wash thoroughly after handling. Keep container closed. See Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION.

Conditions for safe storage: Store in a dry place. Store in original container. Do not store near food, foodstuffs, drugs or potable water supplies.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits are listed below, if they exist.

| Component | Regulation | Type of listing | Value/Notation |
|------------------------------|------------|-----------------|----------------------|
| Silica, crystalline (quartz) | OSHA Z-1 | | |
| | OSHA Z-3 | TWA total dust | 30 mg/m3 / %SiO2+2 |
| | OSHA Z-3 | TWA respirable | 10 mg/m3 / %SiO2+2 |
| | OSHA Z-3 | TWA respirable | 250 mppcf / %SiO2+5 |
| | ACGIH | TWA Respirable | 0.025 mg/m3 , Silica |
| | | fraction | • |

RECOMMENDATIONS IN THIS SECTION ARE FOR MANUFACTURING, COMMERCIAL BLENDING AND PACKAGING WORKERS. APPLICATORS AND HANDLERS SHOULD SEE THE PRODUCT LABEL FOR PROPER PERSONAL PROTECTIVE EQUIPMENT AND CLOTHING.

Exposure controls

Engineering controls: Use engineering controls to maintain airborne level below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use only with adequate ventilation. Local exhaust ventilation may be necessary for some operations.

Individual protection measures

Eye/face protection: Use safety glasses (with side shields). If there is a potential for exposure to particles which could cause eye discomfort, wear chemical goggles. **Skin protection**

Hand protection: Use gloves chemically resistant to this material when prolonged or frequently repeated contact could occur. Examples of preferred glove barrier materials include: Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyvinyl chloride ("PVC" or "vinyl"). NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

Other protection: Wear clean, body-covering clothing.

Respiratory protection: Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use an approved respirator. Selection of air-purifying or positive-pressure supplied-air will depend on the specific operation and the potential airborne concentration of the material. For emergency conditions, use an approved positive-pressure self-contained breathing apparatus. In confined or poorly ventilated areas, use an approved self-contained breathing apparatus or positive pressure air line with auxiliary self-contained air supply.

The following should be effective types of air-purifying respirators: Organic vapor cartridge with a particulate pre-filter.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state Granules.
Color Yellow
Odor Aromatic

Odor Threshold

pH

7.5 (50% dispersion)

Melting point/range

No test data available

Freezing point Not applicable
Boiling point (760 mmHg) Not applicable

Flash point closed cup Not applicable

Evaporation Rate (Butyl Acetate Not applicable

= 1)

Flammability (solid, gas) No

Lower explosion limitNot applicableUpper explosion limitNot applicableVapor PressureNot applicableRelative Vapor Density (air = 1)Not applicableRelative Density (water = 1)Not applicable

Water solubility

No test data available

Partition coefficient: n-

no data available

octanol/water

Auto-ignition temperature

> 537 °C (> 999 °F)

Decomposition temperature

No test data available

Dynamic Viscosity
Kinematic Viscosity

Not applicable Not applicable

Explosive properties

no data available

Oxidizing properties

no data available

Liquid Density

Not applicable

Bulk density

0.70 g/cm3 Loose Volumetric

Molecular weight

No test data available

NOTE: The physical data presented above are typical values and should not be construed as a specification.

10. STABILITY AND REACTIVITY

Reactivity: no data available

Chemical stability: Stable under recommended storage conditions. See Storage, Section 7.

Possibility of hazardous reactions: Polymerization will not occur.

Conditions to avoid: Active ingredient decomposes at elevated temperatures. Avoid direct sunlight or ultraviolet sources.

Incompatible materials: Avoid contact with: Strong oxidizers. Strong acids.

Hazardous decomposition products: Decomposition products depend upon temperature, air supply and the presence of other materials. Decomposition products can include and are not limited to: Nitrogen oxides. Hydrogen fluoride.

11. TOXICOLOGICAL INFORMATION

Toxicological information appears in this section when such data is available.

Acute toxicity

Acute oral toxicity

Low toxicity if swallowed. Small amounts swallowed incidentally as a result of normal handling operations are not likely to cause injury; however, swallowing larger amounts may cause injury.

As product:

LD50, Rat, > 2,500 mg/kg

Acute dermal toxicity

Prolonged skin contact is unlikely to result in absorption of harmful amounts.

As product:

LD50, Rabbit, > 5,000 mg/kg

Acute inhalation toxicity

As product:

LC50, Rat, male, 4 Hour, Dust, > 4.6 mg/l

As product:

LC50, Rat, female, 4 Hour, Dust, > 0.5 - < 4.6 mg/l

Excessive exposure may cause irritation to upper respiratory tract (nose and throat).

Prolonged excessive exposure may cause serious adverse effects, even death.

Skin corrosion/irritation

Prolonged contact may cause slight skin irritation with local redness.

Serious eye damage/eye irritation

Solid or dust may cause irritation due to mechanical action.

Sensitization

Did not cause allergic skin reactions when tested in guinea pigs.

Did not demonstrate the potential for contact allergy in mice.

For respiratory sensitization:

No relevant information found.

Specific Target Organ Systemic Toxicity (Single Exposure)

Evaluation of available data suggests that this material is not an STOT-SE toxicant.

Specific Target Organ Systemic Toxicity (Repeated Exposure)

For the active ingredient(s):

In animals, effects have been reported on the following organs:

Kidney.

Liver.

Blood.

Repeated excessive exposure to crystalline silica may cause silicosis, a progressive and disabling disease of the lungs.

Carcinogenicity

Crystalline silica has been shown to cause cancer in laboratory animals and humans. An increase in nonmalignant liver tumors was observed with isoxaben in one of two species tested. A low incidence of urinary tract tumors was seen in only 1 of 5 chronic studies in rats with trifluralin. Trifluralin is not anticipated to be a carcinogenic risk to man.

Teratogenicity

For the active ingredient(s): Trifluralin. Has been toxic to the fetus in laboratory animals at doses toxic to the mother. Isoxaben. Has caused birth defects in laboratory animals only at doses toxic to the mother.

Reproductive toxicity

For the active ingredient(s): Isoxaben. In animal studies, has been shown to interfere with reproduction in females.

Mutagenicity

For the active ingredient(s): Trifluralin. In vitro genetic toxicity studies were negative in some cases and positive in other cases. Animal genetic toxicity studies were negative.

Based on information for component(s): Crystalline Silica. In vitro genetic toxicity studies were negative in some cases and positive in other cases.

Aspiration Hazard

Based on physical properties, not likely to be an aspiration hazard.

Carcinogenicity

Component List Classification

Silica, crystalline (quartz) IARC Group 1: Carcinogenic to humans

ACGIH A2: Suspected human carcinogen

12. ECOLOGICAL INFORMATION

Ecotoxicological information appears in this section when such data is available.

Toxicity

Acute toxicity to fish

LC50, Oncorhynchus mykiss (rainbow trout), semi-static test, 96 Hour, 230 mg/l

Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested).

Acute toxicity to aquatic invertebrates

EC50, Daphnia pulex (Water flea), 48 Hour, > 1,000 mg/l

Acute toxicity to algae/aquatic plants

ErC50, Pseudokirchneriella subcapitata (green algae), 96 Hour, > 1,000 mg/l

Toxicity to Above Ground Organisms

Material is practically non-toxic to birds on an acute basis (LD50 > 2000 mg/kg).

oral LD50, Colinus virginianus (Bobwhite quail), > 2000mg/kg bodyweight.

Toxicity to soil-dwelling organisms

LC50, Eisenia fetida (earthworms), 14 d, survival, > 10,000 mg/kg

Persistence and degradability

Isoxaben

Biodegradability: Material is expected to biodegrade very slowly (in the environment). Fails to pass OECD/EEC tests for ready biodegradability. Biodegradation rate may increase in soil and/or water with acclimation.

Theoretical Oxygen Demand: 1.98 mg/mg

Chemical Oxygen Demand: 1.77 mg/g

Stability in Water (1/2-life)

Hydrolysis, half-life, > 5 d, pH 7.0

Photodegradation

Test Type: Half-life (direct photolysis)

Method: Measured Photodegradation

Test Type: Half-life (direct photolysis)

Photodegradation

Test Type: Half-life (indirect photolysis)

Sensitizer: OH radicals

Atmospheric half-life: 0.628 Hour

Method: Estimated.

Trifluralin

Biodegradability: Material is expected to biodegrade very slowly (in the environment). Fails

to pass OECD/EEC tests for ready biodegradability.

10-day Window: Fail **Biodegradation:** 5 % **Exposure time:** 28 d

Method: OECD Test Guideline 301B or Equivalent

Chemical Oxygen Demand: 1.37 mg/mg

Stability in Water (1/2-life)

Hydrolysis, half-life, > 1 year, pH 3 - 9, Measured Photolysis, half-life, 0.19 - 3.08 Hour, Measured

Photodegradation

Test Type: Half-life (indirect photolysis)

Sensitizer: OH radicals

Atmospheric half-life: 5.347 Hour

Method: Estimated.

Clays, Fuller's earth

Biodegradability: Biodegradation is not applicable.

Silica, crystalline (quartz)

Biodegradability: Biodegradation is not applicable.

Balance

Biodegradability: No relevant data found.

Bioaccumulative potential

Isoxaben

Bioaccumulation: Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

Partition coefficient: n-octanol/water(log Pow): 2.64 Measured

Trifluralin

Bioaccumulation: Bioconcentration potential is high (BCF > 3000 or Log Pow between 5 and

Partition coefficient: n-octanol/water(log Pow): 5.27

Bioconcentration factor (BCF): 1,060 - 6,000 Pimephales promelas (fathead minnow)

Estimated.

Clays, Fuller's earth

Bioaccumulation: Partitioning from water to n-octanol is not applicable.

Silica, crystalline (quartz)

Bioaccumulation: Partitioning from water to n-octanol is not applicable.

Balance

Bioaccumulation: No relevant data found.

Mobility in soil

Isoxaben and the second second

Potential for mobility in soil is low (Koc between 500 and 2000).

Partition coefficient(Koc): 700 - 1290

Clays, Fuller's earth

No relevant data found.

Silica, crystalline (quartz)

No relevant data found.

Balance

No relevant data found.

13. DISPOSAL CONSIDERATIONS

Disposal methods: If wastes and/or containers cannot be disposed of according to the product label directions, disposal of this material must be in accordance with your local or area regulatory authorities. This information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. If the material as supplied becomes a waste, follow all applicable regional, national and local laws.

14. TRANSPORT INFORMATION

DOT

Proper shipping name

Environmentally hazardous substance, solid, n.o.s.(Trifluralin)

UN number

LAN CLARA F. N. N. SAN

UN 3077

Class

9 !!!

Packing group Reportable Quantity Trifluraling Trifluralin

Page 10 of 13

Classification for SEA transport (IMO-IMDG):

Not regulated for transport

Transport in bulk according to Annex I or II of MARPOL 73/78 and the IBC or IGC Code

Consult IMO regulations before transporting ocean bulk

Classification for AIR transport (IATA/ICAO):

Not regulated for transport

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

15. REGULATORY INFORMATION

OSHA Hazard Communication Standard

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312

Acute Health Hazard Chronic Health Hazard

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)
WARNING: This product contains a chemical(s) known to the State of California to cause cancer.

Pennsylvania (Worker and Community Right-To-KnowAct): Pennsylvania Hazardous Substances List and/or Pennsylvania Environmental Hazardous Substance List:

The following product components are cited in the Pennsylvania Hazardous Substance List and/or the Pennsylvania Environmental Substance List, and are present at levels which require reporting.

Components

Trifluralin

CASRN 1582-09-8

Silica, crystalline (quartz)

14808-60-7

Pennsylvania (Worker and Community Right-To-KnowAct): Pennsylvania Special Hazardous Substances List:

To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

United States TSCA Inventory (TSCA)

This product contains chemical substance(s) exempt from U.S. EPA TSCA Inventory requirements. It is regulated as a pesticide subject to Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) requirements.

Federal Insecticide, Fungicide and Rodenticide Act

EPA Registration Number: 62719-175

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

CAUTION

Causes moderate eye irritation Harmful if swallowed or inhaled

Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

16. OTHER INFORMATION

Hazard Rating System

NFPA

| Health | Fire | Reactivity |
|--------|------|------------|
| 2 | 1 | 0 |

Revision

Identification Number: 101204129 / A211 / Issue Date: 05/15/2015 / Version: 3.0

DAS Code: FN-3278

Most recent revision(s) are noted by the bold, double bars in left-hand margin throughout this document.

.......

Legend

| ACGIH | USA. ACGIH Threshold Limit Values (TLV) |
|----------|---|
| OSHA Z-1 | USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air |
| | Contaminants |
| OSHA Z-3 | USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts |
| TWA | 8-hour, time-weighted average |

Information Source and References

This SDS is prepared by Product Regulatory Services and Hazard Communications Groups from information supplied by internal references within our company.

DOW AGROSCIENCES LLC urges each customer or recipient of this (M)SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this (M)SDS and any hazards associated with the product. The information herein is

provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific (M)SDSs, we are not and cannot be responsible for (M)SDSs obtained from any source other than ourselves. If you have obtained an (M)SDS from another source or if you are not sure that the (M)SDS you have is current, please contact us for the most current version.



Spect(i)cle FLO

HERBICIDE

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

DO NOT USE FOR THE MANUFACTURING OF FERTILIZER

TOTAL: 100.09
This product is a Suspension Concentrate containing

0.622 lb active ingredient per gallon.

Shake well before use.

EPA Reg. No. 432-1608

Net Contents

1 Gallon

86775387 86699648C 200831AV1

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
See Back Panel for First Aid Instructions and

Booklet for Complete Precautionary Statements and Directions for Use.

| | FIRST AID | |
|---|---|--|
| If swallowed: | Call a poison control center or doctor immediately for treatment advice. I alwe 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 by mouth to an unconscious person. | |
| If in eyes: | Nold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, and then continue rinsing. Call a poison control center or doctor for treatment advice. | |
| 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 911 or an ambulance, and 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. | | |

PRECAUTIONARY STATEMENTS

PERSONAL 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 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/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 spray dirfl or runoff. Follow directions for use to avoid spray dirfl and 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.

This product may enter water through spray drift. Follow precautions for use to avoid spray drift.

Surface Water Advisory: This pesticide may impact surface water quality due to runoff of rain water. This is especially true for poorty 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 apoly 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. Keep unprotected persons out of the treated areas until sprays have dried.

PRODUCT INFORMATION

SPECTICLE FL0® HERBICIDE is a selective, preemergence alkylazine herbicide. SPECTICLE FL0 HERBICIDE provides extended residual control of many annual grasses including crabgrass, goosegrass, and annual bluegrass, as well as annual sedges, and many broadleaf weeds. Use sites include residential, commercial, recreational, municipal, and institutional turf and ornamentals; roadsides; natural areas; non-bearing fruit and nut trees in residential plantings; sod farms; and hardscapes.

Use SPECTICLE FLO HERBICIDE 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 FLO HERBICIDE 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 FLO HERBICIDE does not control plants emerging from tubers, rhizomes, bulbs, corms, or existing rootstocks. SPECTICLE FLO HERBICIDE areads to be activated by rainfall or irrigation prior to weed germination for most effective premergence control. SPECTICLE FLO HERBICIDE is a highly active herbicide that provides effective weed control when applied to the soil around many labeled landscape ornamentals. SPECTICLE FLO HERBICIDE may damage sensitive plants, if the product is allowed to remain in contact with foliage. Carefully apply SPECTICLE FLO HERBICIDE in strict accordance to the label.

PRODUCT USE RESTRICTIONS

- . Do not exceed the maximum single application rates specified under each use.
- Do not exceed 18.5 fl oz per acre of SPECTICLE FLO HERBICIDE for all applications within a 12 month period.
- Do not contaminate water intended for irrigation and domestic use.
- Do not apply within 25 feet of ponds, lakes, rivers, streams, wetlands and habitat containing aquatic and semi-aquatic plants when SPEC-TICLE FLO HERBICIDE is used on sod farms, oolf courses, and non-crop areas (excluding residential lawns and commercial turf).
- Do not apply SPECTICLE FLO HERBICIDE through an irrigation or chemigation system.
- . Do not apply SPECTICLE FLO HERBICIDE by air.
- . SPECTICLE FLO HERBICIDE is not for sale, distribution, or use in Nassau County or Suffolk County in New York State.

DEACTIVATING SPECTICLE FLO HERBICIDE

Activated charcoal has been shown to deactivate SPECTICLE FLO HERBICIDE if applied within several hours of application. Follow directions for the amount of charcoal to apply on the label of the activated charcoal.

SPRAY DRIFT MANAGEMENT

Spray equipment and weather affect spray drift. Consider all factors when making application decisions. Where states have more stringent regulations, they must be observed. Avoiding spray drift is the responsibility of the applicator. Or decidence the potential for drift, the application equipment must be set to apply medium to very coarse droplets (i.e., ASAE Standard 572) with corresponding spray pressure. Use high flow rate nozzles to apply the highest practical spray volume. With most nozzle types, narrower spray angles produce larger droplets. Follow the nozzle manufacturer's directions on pressure, orientation, spray volume, etc., in order to miniprize drift and optimize overaries and control.

Wind

Avoid making applications when spray particles may be carried by air currents to areas where sensitive crops and plants are growing. Do not spray near sensitive plants if wind is gusty, below 2 mph, or in excess of 10 mph and moving in the direction of adjacent areas of sensitive crops or plants. Do not apply during temperature inversions. Always make applications when there is some air movement to determine the direction and distance of possible spray drift.

Local terrain may influence wind patterns; the applicator must be familiar with local conditions and understand how they may impact spray drift. Boom or nozzle shielding can reduce the effects of wind or air currents on drift. Verify that the shields do not interfere with uniform deposition of product prior to application.

Temperature Inversion

A surface temperature inversion (i.e., increasing temperature with increasing altitude) greatly increases the potential for drift. Avoid application when conditions are favorable to inversion. Presence of ground fog is a good indicator of a surface temperature inversion.

Sensitive Areas

Sensitive areas to SPECTICLE FLO HERBICIDE are defined as bodies of water (ponds, lakes, rivers, and streams), wetlands, habitats for endangered species, and non-labeled agricultural crop areas. Applicators must take all precautions necessary to keep spray drift from reaching sensitive areas.

Spray Drift Management

Make applications at the lowest height that safely permits uniform coverage of the soil and minimizes droplet evaporation. For use on golf courses and commercial lawns, the boom height must be no higher than 1-3 feet above the ground and nozzle tips must be set to spray out

medium to very coarse spray droplets. Applications to residential lawns must be made by equipment that maintains coarse spray droplets (to reduce driff).

For use in landscape ornamentals, apply SPECTICLE FLO HERBICIDE around dormant (prior to bud break) or actively growing plants. In either case, the spray must be directed at the base of the plant or away from the plant. Do not allow SPECTICLE FLO HERBICIDE to come in contact with the foliage, as some leaf malformations or discoloration may occur. Minimize contact with above ground stems.

APPLICATION INFORMATION

Apply SPECTICLE FLO HERBICIDE with a properly calibrated sprayer according to the manufacturer's directions and check periodically to be certain that the equipment is working properly prior to each use. Uniform application is essential for satisfactory weed control. Avoid skips for the best weed control and overlapping application patterns to avoid plant injury.

Application Volume

Apply SPECTICLE FLO HERBICIDE in a minimum of 10 gallons of water per acre (1 quart of water per 1000 sq ft) and ensure adequate coverage for optimum weed control.

SOIL MOISTURE, IRRIGATION, AND RAINFALL AFTER APPLICATION

To activate SPECTICLE FLO HERBICIDE, 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.

TANK-MIX COMBINATIONS WITH SPECTICLE FLO HERBICIDE

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and or recautionary statements of each product in the tank mixture.

MIXING AND COMPATIBILITY

Mixing Instructions

Add SPECTICLE FLO HERBICIDE to the tank and agitate before adding another product. Mix the amount of SPECTICLE FLO HERBICIDE needed for immediate application needs. Settling can occur if the spray mixture is allowed to sit over an ackended period of time. SPECTICLE FLO HERBICIDE is stable in spray solution for up to 48 hours after mixing. Re-aditate the spray solution before application.

Compatibility Testing With Other Pesticides

SPECTICLE FLO HERBICIDE is compatible with many posticides and liquid fertilizers. A compatibility test must be conducted with any potential tank-mix partner with SPECTICLE FLO HERBICIDE. Using a clear container, conduct the test as described below:

- 1. Fill the container three-quarters full with water.
- Add the products to be tank-mixed in the following order: (a) wettable powders (b) dry flowable, (c) aqueous suspensions, (d) SPECTICLE FLO HERBICIDE*, (e) liquids. (f) solutions and emulsifiable liquid concentrates. (g) micronutrients and liquid fertilizers.
- 3. Shake or stir after each addition to mix thoroughly.
- After adding all ingredients, let the mixture stand for 15 minutes and look for separation, large flakes, precipitates, gels, and heavy oily film
 or other signs of incompatibility.
- 5. If the compatibility test shows signs of incompatibility, do not tank-mix the product tested with SPECTICLE FLO HERBICIDE.

*Note that a labeled spray rate for SPECTICLE FLO HERBICIDE must be used in any compatibility test. Dilute from a concentrated suspension, or sample from a properly diluted spray solution.

SPRAYER CLEANUP PROCEDURE

Spray equipment used to apply SPECTICLE FLO HERBICIDE must be cleaned prior to use on sensitive turf and landscape ornamentals, or injury may result. Before and after using SPECTICLE FLO HERBICIDE, triple rinse all mixing and spray equipment, including tanks, pumps, lines, filters, screens, and nozzles with a tank cleaner.

RESISTANCE MANAGEMENT

For resistance management, SPECTICLE FLO HERBICIDE contains a Group 29 herbicide (cellulose biosynthesis inhibitor). While no known resistance to SPECTICLE FLO HERBICIDE exists, any weed population may contain or develop plants naturally resistant to this product and other Group 29 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same area. Appropriate resistance management strategies should be followed.

To delay herbicide resistance take one or more of the following steps:

- Rotate the use of SPECTICLE FLO HERBICIDE or other Group 29 herbicides within a growing season sequence or among growing seasons
 with different herbicide groups that control the same weeds.
- Use tank mixtures with herbicides from a different group if such use is permitted; where information on resistance in target weed species is available, use the ises resistance-prone partner at a rate that will control the target weed(s) equally as well as the more resistance-prone partner. Consult your local extension service or nest control advisor if you are unsure as to which active inpredient is currently less grone to resistance.
- Adopt an integrated weed-management program for herbicide use that includes souting and uses historical information related to herbicide
 use, and that considers mechanical control methods, cultural (e.g., timing to favor the turf and not the weeds), biological (weed-competitive
- varieties) and other management practices.

 Scout before and after herbicide application to monitor weed populations for early signs of resistance development. Indicators of possible herbicide resistance include: 1) failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds; 2) a spreading patch of non-controlled plants of a particular weed species; 3) surviving plants mixed with controlled individuals of the same species. If resistance is suspected, prevent weed seed production in the affected area by an alternative her-
- bicide from a different group or by a mechanical method. Prevent movement of resistant weed seeds to other areas by cleaning equipment.

 If a weed pest population continues to progress after treatment with this product, discontinue use of this product, and switch to another management strategy or herbicide with a different mode of action, if available.
- Contact your local extension specialist or certified advisors for additional pesticide resistance-management and/or integrated weed-management recommendations for specific weed biotypes.
- For further information or to report suspected resistance contact Bayer CropScience at 1-866-99BAYER (1-866-992-2937). You can also contact your pesticide distributor or university extension specialist to report resistance.

DIRECTIONS FOR USE OF SPECTICLE FLO HERBICIDE ON TURF

- . Do not apply 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 FLO HERBICIDE ON TURF IN COARSE AND SANDY SOILS

Soil conditions can affect the tolerance of turf to SPECTICLE FLO HERBICIDE. Coarse or sandy soils may allow for downward movement of SPECTICLE FLO HERBICIDE into the root zone and cause significant root damage and phytotoxicity. Coarse soils, for example, may include significant root damage and phytotoxicity.

nificant quantities of sand, gravel, decomposed granite, and ground cinders. Prior to application of SPECTICLE FLO HERBICIDE in these soils, confirm texture with a soil test. Turf grown in soil exceeding 80% sand or 20% gravel may be at risk. Low rate multiple applications of SPECTICLE FLO HERBICIDE may reduce the risk on these soils. Refer to use rates for the 'Split Application Programs' section of this label.

If SPECTICLE FLO HERBICIDE is to be applied on these soils, evaluate turf tolerance in treated soils prior to a large scale application.

Use of SPECTICLE FLO HERBICIDE on Weakened or Stressed Turf

SPECTICLE FLO HERBICIDE 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 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 should be carefully evaluated before treatment. Application of SPECTICLE FLO HERBICIDE to turf in these situations may delay turf recovery.

Application of SPECTICLE FLO HERBICIDE to stressed turf may produce symptoms of injury including velloying, purple discoloration, thinning.

Application of SPECTICLE FLO HERBICIDE to stressed turn 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 FLO HERBICIDE 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 FLO HERBICIDE. Neither the Manufacturer nor the Seller has determined whether or not SPECTICLE FLO HERBICIDE 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 turforasses

- 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, Zenith, Zeon
- · 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 FLO HERBICIDE may temporarily inhibit the rooting of turfgrass stolons.
- ** Common or off-type Bermudagrass may show increased sensitivity to SPECTICLE FLO HERBICIDE compared to hybrids.

SPECTICLE FLO HERBICIDE may cause unacceptable injury to some turfgrasses. <u>Do not</u> 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)

- Kikuvuqrass (Pennisetum clandestinum)
- Perennial ryegrass (Lolium perenne)
 Annual ryegrass (Lolium multiflorum)
- Kentucky bluegrass (Poa pratensis)
- Kentucky bluegrass (Poa pratensis)
- · Bermudagrass (Cynodon dactylon) Ormond

Maximum Single Application Rates for SPECTICLE FLO HERBICIDE on Warm Season Grasses

| Turf Type | Application Rate Fluid Ounces of Product per Acre |
|--------------------|--|
| Bermudagrass | 10 |
| Zoysiagrass | 10 |
| Buffalograss | 10 |
| Bahiagrass | 10 |
| St. Augustinegrass | 6 |
| Centipedegrass | 6 |
| Seashore Paspalum | 8 |

Precautions for Use of SPECTICLE FLO HERBICIDE Near Sensitive Grasses

SPECTICLE FLO HERBICIDE 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 FLO HERBICIDE 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 FLO HERBICIDE directly to sensitive grasses.

If SPECTICLE FLO HERBICIDE contacts sensitive grasses, refer to the "DEACTIVATING SPECTICLE FLO HERBICIDE" section of this label.

USE RATES, TIMINGS, AND MAXIMUM SEASONAL RATE FOR SPECTICLE FLO HERBICIDE ON TURE Apply SPECTICLE FLO HERBICIDE in a single or split application program. The maximum single application rate of SPECTICLE FLO HERBICIDE is 10 fl oz per acre. The total amount of SPECTICLE FLO HERBICIDE applied in a 12-month period must not exceed 18.5 fl oz per acre.

SINGLE APPLICATION PROGRAM

Use higher rates within the rate range when the site has historically higher weed pressure or when longer residual control is desired. Use lower to medium rates on medium and coarse-textured soils, and higher rates on fine-textured soils.

Use Rates for Single Application of SPECTICLE FLO HERBICIDE

| Target Weed | | Rate Range (fl oz per acre) for SPECTICLE FLO (single application) | |
|------------------|--|--|--|
| Crabgrass | Broadleaf weeds | | |
| Goosegrass | Annual sedge and annual kyllinga | 6-10 | |
| Annual bluegrass | Aililuai Seuge aliu alililuai kyllililya | | |

SPLIT APPLICATION PROGRAMS

Split applications of SPECTICLE FLO HERBICIDE 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 Split Applications of SPECTICLE FLO HERBICIDE

| Target Weed | Rate Range (fl oz per acre) for SPECTICLE FLO HERBICIDE (initial application) | Rate Range (fl oz per acre) for SPECTICLE FLO HERBICIDE (follow-up application within 45-90 days) | |
|----------------------------------|---|---|--|
| Crabgrass | | 3 - 9 | |
| Goosegrass | 3 - 9 | 3-9 | |
| Annual bluegrass | | 3 - 9 | |
| Broadleaf weeds | 6.0 | 3 - 9 | |
| Annual sedge and annual kyllinga | 6 - 9 | 6 - 9 | |

For extended residual control, use split applications.

Use Rates for Three Split Applications of SPECTICLE FLO HERBICIDE

| Target Weed | Rate Range (fl oz per acre) for SPECTICLE FLO HERBICIDE (initial application) | Rate Range (fl oz per acre) for SPECTICLE FLO HERBICIDE (follow-up application within 30-45 days) | Rate Range (fl oz per acre) for SPECTICLE FLO HERBICIDE (follow-up application within 30-45 days) |
|------------------|--|--|--|
| Crabgrass | | | |
| Goosegrass | 3 - 4.5 | 3 - 4.5 | 3 - 4.5 |
| Annual Bluegrass | 3 - 4.5 | 3 - 4.0 | 3 - 4.0 |
| Broadleaf weeds | | | |

GOOSEGRASS CONTROL

SPECTICLE FLO HERBICIDE provides preemergence control of goosegrass emerging from seed. SPECTICLE FLO HERBICIDE does not control perennial goosegrass or goosegrass emerging from existing crowns. If goosegrass is evident at the time of application, use a labeled postemergence herbicide for control of existing plants.

ANNUAL BLUEGRASS CONTROL

Make preemergence applications of SPECTICLE FLO HERBICIDE between August and November depending on annual bluegrass germination in each geographical zone. The optimum timing is dependent on peak annual bluegrass germination and local conditions in a particular year. BROADLEAF WEED CONTROL

SPECTICLE FLO HERBICIDE 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 FLO HERBICIDE.

ANNUAL SEDGES AND ANNUAL KYLLINGA CONTROL

SPECTICLE FLO HERBICIDE provides preemergence control of sedges and kylingas emerging from seed. SPECTICLE FLO HERBICIDE does not control established perennial sedges and kyllinga, or sedges emerging from tubers (nutlets) including yellow or purple nutsedge.

Dormant, Non-Overseeded Turf

Tank-mix combinations of SPECTICLE FLO HERBICIDE with a non-selective herbicide will control existing weeds in dormant warm season grasses such as bermudagrass and zoysiagrass.

ŠPECTICLE FLO HERBICIDĒ may be used in combination with RONSTAR® FLO HERBICIDE, REVOLVER HERBICIDE, CELSIUS® WG HERBICIDE or TRIBUTE TOTAL to provide broad-spectrum residual weed control. Follow use restrictions on all labels.

Non-Dormant, Non-Overseeded Turf

SPECTICLE FLO HERBICIDE cannot be used on warm season turf overseeded with cool season grasses. Tank-mix combinations of SPECTICLE FLO HERBICIDE, etcl. as selective postemergence herbicide such as REVOLVER HERBICIDE, CELSIUS WG HERBICIDE, or TRIBUTE TOTAL provide pre and postemergence control of weeds in non-overseeded, warm season turf common to both products. Follow use restrictions on all labels.

| Broadleaf Weeds | | | |
|------------------------------|--------------------------|------------------------------|--------------------------|
| American black nightshade | Solanum americanum | Dodder* | Cuscuta spp. |
| American burnweed (Fireweed) | Erechtites hieraciifolia | Dogfennel | Eupatorium capillifolium |
| Beggarticks | Bidens alba | Eclipta | Eclipta alba |
| Bittercress | Cardamine spp. | Evening primrose, Common | Oenothera biennis |
| Black medic ¹ | Medicago lupulina | Evening primrose, Cutleaf | Oenothera laciniata |
| Buckwheat, Wild | Polygonum convolvulus | False chamomile ¹ | Matricaria maritima |
| California burclover | Medicago polymorpha | Filaree, Redstem | Erodium cicutarium |
| Canada thistle, Common | Circium arvense | Florida pusley | Richardia scabra |
| Chamberbitter | Phyllanthus urinaria | Galinsoga | Galinsoga parviflora |
| Chickweed, Common | Stellaria media | Garden spurge | Chamaesyce hirta |
| Chickweed, Mouse-ear | Cerastium vulgatum | Groundsel, Common | Senecio vulgaris |
| Clover, White | Trifolium repens | Hairy fleabane | Erigeron bonariensis |
| Corn speedwell | Veronica arvensis | Hairy nightshade | Solanum sarrachoides |
| Cudweed, Linear-leaf/Purple | Gnaphalium purpureum | Henbit | Lamium amplexicaule |
| Cupid's shaving brush | Emilia fosbergii | Kochia | Kochia scoparia |
| Curly dock | Rumex crispus | Lambsquarters, Common | Chenopodium album |
| Dandelion, Cat's Ear | Hypochoeris radicata | Lawn burweed | Soliva sessilis |
| Dandelion, Common | Taraxacum officinale | Little mallow | Malva parviflora |

continued

| Weeds Controlled or Suppressed by SPECTICLE FLO HERBICIDE ² (continued) | | | |
|--|--------------------------|------------------------------------|-------------------------|
| Broadleaf Weeds | | | |
| London rocket ¹ | Sisymbrium irio | Redmaids | Calandrinia ciliata |
| Longstalked phyllanthus | Phyllanthus tenellus | Sesbania, Hemp ¹ | Sesbania exaltata |
| Mustard, Black ¹ | Brassica nigra | Shepherd's-purse | Capsella bursa-pastoris |
| Mustard, Short-pod | Hirschfeldia incana | Sida, Prickly/Teaweed1 | Sida spinosa |
| Mustard, Wild | Sinapis arvensis | Southern brassbuttons ¹ | Cotula australis |
| Parthenium | Parthenium hysterophorus | Sowthistle, Annual | Sonchus oleraceus |
| Pigweed, Prostrate | Amaranthus blitoides | Spurge, Spotted | Euphorbia maculata |
| Pigweed, Redroot | Amaranthus retroflexus | Stinkwort | Dittrichia graveolens |
| Pink purslane | Claytonia sibirica | Sunflower ¹ , Common | Helianthus annuus |
| Plantain, Buckhorn | Plantago lanceolata | Swinecress | Coronopus didymus |
| Plantain, Paleseed | Plantago virginica | Tassel flower | Emilia sonchifolia |
| Poinsettia, Wild | Euphorbia cyathophora | Tropic ageratum | Ageratum conyzoides |
| Prostrate knotweed | Polygonum aviculare | Velvetleaf ¹ | Abutilon theophrasti |
| Prostrate spurge | Euphorbia maculata | Vetch, Purple | Vicia benghalensis |
| Puncturevine | Tribulus terrestris | Wild carrot1 | Daucus carota |
| Purslane, Common | Portulaca oleracea | Willowherb | Epilobium brachycarpum |
| Ragweed, Common ¹ | Ambrosia artimisiifolia | Woodsorrel, Yellow ¹ | Oxalis stricta |
| GRASSES, MONOCOTS, AND | SEDGES | | |
| Annual bluegrass | Poa annua | Foxtail brome | Bromus rubens |
| Annual kyllinga ³ | Cyperus sesquiflorus | Foxtail, Giant | Setaria faberi |
| Barnyardgrass, Common | Echinochloa crus-galli | Foxtail, Green | Setaria viridis |
| Cheatgrass | Bromus secalinus | Foxtail, Yellow | Pennisetum glaucum |
| Crabgrass, Blanket | Digitaria serotina | Goosegrass | Eleusine indica |
| Crabgrass, Henry | Digitaria ciliaris | Guineagrass | Panicum maximum |
| Crabgrass, Large/Hairy | Digitaria sanguinalis | Kyllinga, Fragrant/Annual3 | Kyllinga odorata |
| Crabgrass, Smooth | Digitaria ischaemum | Little barley | Hordium pusillum |
| Doveweed | Murdannia nudiflora | Mouse barley | Hordeum murinum |
| Fall panicum | Panicum dichotomiflorum | Red brome | Bromus rubens |

continued

| Weeds Controlled or Suppressed by SPECTICLE FLO HERBICIDE ² (continued) | | | |
|--|----------------------|----------------------------|-----------------------|
| GRASSES, MONOCOTS, AND SEDGES | | | |
| Rice flatsedge ³ | Cyperus iria | Sedge, Annual ³ | Cyperus compressus |
| Ryegrass, Italian | Lolium multiflorum | Sedge, Globe ³ | Cyperus croceus |
| Ryegrass, Perennial | Lolium perenne | Tufted lovegrass | Eragrostis pectinacea |
| Sandbur | Cenchrus longispinus | | |

*Not for use in California

- Weeds suppressed by SPECTICLE FLO HERBICIDE
- 2 Use higher labeled rates if weed pressure is historically high or longer residual control is desired (See Use Rates in the SPECTICLE FLO HERBICIDE chart). The rate used must not exceed the tolerance for an individual turf type. Weed control can also be achieved with multiple applications of SPECTICLE FLO HERBICIDE. Do not exceed a total of 18.5 fl oz per acre per vear with solit applications.
- 3 SPECTICLE FLO HERBICIDE only controls sedges and annual 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 FLO HERBICIDE 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 FLO HERBICIDE is applied to sod that is not well established. Timing of seedling, reseedling, overseeding, sorriganic, and sodding turf relative to an application of SPECTICLE FLO HERBICIDE needs to be considered.

Seeding, overseeding, re-seeding, sprigging, and sodding intervals are affected by the rate of SPECTICLE FLO HERBICIDE 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 |
|-----------------|---|--|--|
| | | 3 - 6 FL OZ/A | > 6 - 10 FL OZ/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 FLO HERBICIDE may be applied to turf on Bermudagrass, zoysiagrass, and bahiagrass sod farms. During new sod establishment, SPECTICLE FLO HERBICIDE may be applied when coverage from ribbons is 80% or greater.

Do not apply SPECTICLE FLO HERBICIDE to centipedegrass, seashore paspalum, or St. Augustinegrass sod.

SPECTICLE FLO HERBICIDE may be applied to sod up to 4 months prior to harvest.

LANDSCAPE ORNAMENTALS

SPECTICLE FLO HERBICIDE may be applied for preemergence weed control in landscape ornamentals, and hedgerows. Apply SPECTICLE FLO HERBICIDE as a directed spray, prior to weed seed germination to the soil surface around dormant or actively growing landscape ornamentals as listed in the table below. Apply SPECTICLE FLO HERBICIDE to established landscape ornamentals.

USE RESTRICTIONS

- Do not exceed the maximum single application rates specified for each landscape ornamental use.
- Do not allow spray to contact foliage of desirable plant(s). SPECTICLE FLO HERBICIDE may cause localized injury to the foliage, especially
 young leaf tissue. If the spray contacts the foliage, wash off immediately. See specific label instructions for over-the-top applications.
- Do not use SPECTICLE FLO HERBICIDE on or around annuals not listed as tolerant on this label.
- Do not use SPECTICLE FLO HERBICIDE around bearing fruit and nut trees. SPECTICLE FLO HERBICIDE 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 FLÖ HERBICIDE around non-bearing fruit and nut trees unless they are at least 1 year old (citrus), 5 years old (grape vines) and 3 years old (all others).
- Do not use SPECTICLE FLO HERBICIDE within the dripline of bearing fruit and nut trees.
- Do not cultivate or disturb the soil surface after application of SPECTICLE FLO HERBICIDE as this may reduce weed control.
- If transplanting mature plants listed as tolerant on this label into soil treated with SPECTICLE FLO HERBICIDE within the preceding 12 months, replace existing soil around roots to minimize effects on plant establishment.
- Do not use SPECTICLE FLO HERBICIDE on seedbeds, or rooted cuttings.
- Do not apply SPECTICLE FLO HERBICIDE to landscapes ornamentals growing in containers smaller than 15 gallons.
- Do not apply SPECTICLE FLO HERBICIDE over-the-top to landscape ornamentals. For Natural Areas, see label instructions for over-the-top applications.
- Do not mix with products containing chlorine bleach.
- Do not apply to landscape beds uphill from ryegrass, fescue, bentgrass, or mixed lawns where these grasses are desirable.

USE PRECAUTIONS

- Avoid applying SPECTICLE FLO HERBICIDE to heavily mulched landscape beds, as reduced weed control may occur. For best results remove
 existing mulch and replace mulch after an application of SPECTICLE FLO HERBICIDE.
- Application of SPECTICLE FLO HERBICIDE to budded grafts or graft unions may cause plant injury or plant death.

USE OF SPECTICLE FLO HERBICIDE ON LANDSCAPE ORNAMENTALS IN COARSE AND SANDY SOILS

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

SYMPTOMS OF SPECTICLE FLO HERBICIDE INJURY ON LANDSCAPE ORNAMENTALS

SPECTICLE FLO HERBICIDE may injure sensitive landscape ornamentals by damaging roots or leaves. Plant foliage damaged by root absorption will appear stunted, deformed, and may not recover. If SPECTICLE FLO HERBICIDE is allowed to contact leaves, leaf symptoms including leaf spot, leaf discoloration, and leaf curl may appear. Symptoms appear within several days after application. Leaves formed after appearance of symptoms may recover.

LANDSCAPE ORNAMENTAL USES

SPECTICLE FLO HERBICIDE may be used in residential, commercial, as well as federal, state and local plantings of landscape ornamentals and hedgerows for preemergence weed control. Apply SPECTICLE FLO HERBICIDE as a directed spray around established (robted) plants and not to newly roted cuttings or seedlings. To avoid root damage, apply SPECTICLE FLO HERBICIDE 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 FLO HERBICIDE contacts foliage, wash off immediately to avoid damage. Herbaceous annuals and perennials are sensitive to SPECTICLE FLO HERBICIDE.

Use of SPECTICLE FLO HERBICIDE near Sensitive Grasses

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

AMOUNT TO USE: Apply SPECTICLE FLO HERBICIDE as a broadcast, directed spray at 6-12 fl oz/acre around landscape ornamentals. When applying SPECTICLE FLO HERBICIDE with a backgack sprayer, follow all above restrictions.

A subsequent application of SPECTICLE FLO HERBICIDE can be made within 90 days after the initial application to extend weed control provided that the total SPECTICLE FLO HERBICIDE applied does not exceed 18.5 flog per agree in a 12 month period.

that the total SPECTICLE FLO HERBICIDE applied does not exceed 18.5 fl oz per acre in a 12 month period.

COMBINATIONS OF SPECTICLE FLO HERBICIDE WITH NON-SELECTIVE HERBICIDES AROUND LANDSCAPE ORNAMENTALS

Remove existing weed growth before application of SPECTICLE FLO HERBICIDE or use a postemergence herbicide labeled for control. SPECTICLE FLO HERBICIDE may be used in combination with a non-selective herbicide. Avoid contact of spray containing a non-selective herbicide with foliage, stems, green bark, or bare roots of turfgrasses, trees, shrubs, or other desirable vegetation. If spraying area adjacent to desirable plants with a non-selective herbicide. use a shield while spraying to help orevent sorray from contacting foliage of desirable plants.

When tank-mixing with other products, it is the responsibility of the end-user/applicator to ensure that the tank-mix partner is registered in the state where the application is being made.

IMPORTANT: Direct application of SPÉCTICLE FLO HERBICIDE to the soil surface. Avoid direct spray contact on plant surfaces, foliage, and green bark. Avoid application under environmental conditions that favor drift to non-targeted areas. Deep cultivation reduces the effectiveness of SPECTICI F IO HERBICIDE.

BACKPACK AND HANDHELD SPRAYER MIXING: SPECTICLE FLO HERBICIDE can be applied using backpack or handheld sprayers. For backpack or handheld spray applications, mix 1 teaspoon of SPECTICLE FLO HERBICIDE per gallon of water. Agitate the mixture to ensure good suspension. If adding glyphosate, mix SPECTICLE FLO HERBICIDE in first. Recommended spray volume is 40 - 100 gallons per acre or approximately 1 - 2.3 gallons per 1000 sq ft.

LANDSCAPE ORNAMENTALS AND THEIR CULTIVARS TOLERANT TO SPECTICLE FLO HER-BICIDE

Tolerant landscape ornamentals and their cultivars are listed in the following table. Apply as a directed spray around tolerant landscape ornamentals. 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 on this label. Do not treat annuals that are not listed on this label.

| Common Name | Scientific Name | Cultivar |
|--------------------------|---------------------------------------|--|
| Abelia | Abelia x grandiflora | Kaleidoscope |
| Acacia, Prostrate | Acacia redolens | Desert Carpet |
| Anise, Yellow | Illicium parviflorum | · |
| Apple | Malus domestica | Beverly Hills, Ellsa, Golden Dorsett, Harelred, Honey Crisp, Mahaleb, Red Delicious, Winesap |
| Apricot | Prunus armeniaca | Tropic Gold |
| Arborvitae | Thuja occidentalis | Emerald, Green Giant, Green Flag, Nigra, Techny, Yellow Ribbon |
| Ash, (Southern) Green | Fraxinus pennsylvanica | Georgia Gem |
| Asparagus fern | Asparagus plumosus | |
| Aspen, Quaking | Populus tremuloides | |
| Azalea | Rhododendron spp. | Delaware Valley White, Fashion, Florida Flame, Girard's Rose, Haps Pink, High Tide, Judge Solomon, Karen, Nova Zembla, Macarantha, Hino Crimson, Mother's Day, Pink Gumpo, Red Ruffle, VF 14, White Gumpo |
| Azalea | Rhododendron yakushimanum x smirnowii | Crete |
| Azalea, Cat album | Rhododendron chionoides | |
| Azalea, Encore | Rhododendron spp. | Autumn Debutante |
| Bamboo, Golden | Phyllostachys aurea | |
| Beech, American | Fagus grandifolia | |
| Birch, River | Betula nigra | Heritage |
| Birch, White | Betula platyphylla | Spire |
| Bird of Paradise | Strelitizia reginae | |
| Bird of Paradise, White | Strelitizia nicolai | |
| Black tupelo (Black gum) | Nyssa sylvatica | Wild Fire |
| Bluebird | Caryopteris x clandonensis | Dark Knight |
| Bluestem, Big | Andropogon gerardii | |
| Bluestem, Little | Andropogon scoparius | |
| Boxwood | Buxus microphylla | Baby Gem, Chicagoland Green, Dwarf, Green Beauty |
| Boxwood | Buxus isinica var. insularis | Wintergreen |
| Boxwood, Common/English | Buxus sempervirens | Green Gem, Green Mountain, Suffructicosa, Winter Gem |
| Boxwood, Japanese | Buxus microphylla var. japonica | Dwarf, Chicagoland |
| Bradford Pear | Pyrus calleryana | Chanticlear |

| Common Name | Scientific Name | Cultivar | | |
|------------------------------------|------------------------------------|--|--|--|
| Buckeye, Ohio | Aesculus glabra | | | |
| Burning bush (Euonymus) | Euonymus altus | Compacta | | |
| Butterfly bush | Buddleia davidii | Nanho Blue | | |
| Buttonwood | Conocarpus erectus | | | |
| Camellia, Japanese | Camellia japonica | Margaret Heathcliff Pink | | |
| Camellia, Little leaf | Camellia sasanqua | Cleopatra Pink, Shi Shi Gashira | | |
| Cassia (Golden senna) | Senna surattensis | | | |
| Catalpa, Southern | Catalpa bignoniaceae | | | |
| Cedar, Atlantic white | Chamaecyparis thyoides | | | |
| Cedar, Eastern red | Juniperus virginiana | Burkii, Idylllwild | | |
| Cedar, Japanese | Cryptomeria japonica | Black Dragon, Burkii, Globosa, Yoshino | | |
| Cherry, American plum | Prunus americana | | | |
| Cherry | | | | |
| Cherry, Purple leaf sand | Prunus cistena | | | |
| Cherry, Sargent | Prunus sargentii | Spring Wonder | | |
| Cherry, Yoshino | Prunus x yedoensis | Yoshino | | |
| Cherry Laurel (Skip laurel) | Prunus laurocerasis | Otto Luyken, Schipkaensis | | |
| Chokeberry | Aronia prunifolia Viking | | | |
| Cottonwood, Eastern | Populus deltoides | Siouxland | | |
| Crabapple | Malus sylvestris | Harvest Gold, Snowdrift, Snow Spring, Spring Snow | | |
| Crape myrtle | Laegerstroemia indica | Burgundy Cotton, Pocomoke Pink, Sarah's Favorite, Siren Red | | |
| Crape myrtle | Lagerstroemia indica x fauriei | Miami, Muskogee, Tuscarora | | |
| 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 | Filicoides | | |
| Cypress, Leyland | Cupressus x leylandii | | | |
| Cypress, Mediterranean | Cupressus sempervirens | | | |
| Cypress, Pond | Taxodium distichum var. imbricatum | | | |
| Daphne | Daphne caucasica | Summer Ice | | |
| Dawn Redwood | Metasequoia glyptostroboides | | | |
| | | | | |

| Common Name | Scientific Name | Cultivar |
|------------------------------|--------------------------------|---|
| Dogwood, Flowering | Cornus florida | |
| Dogwood, Kousa | Cornus kousa | |
| Dogwood, Redosier (Red bark) | Cornus sericea | Yellow Twig |
| Dogwood, Tatarian | Cornus alba | · |
| Elm, American | Ulmus americana | |
| Elm, Chinese (Bosque) | Ulmus parvifolia | Drake |
| Eucalyptus | Eucalyptus globulus | Baby Tears |
| Feather reed grass | Calamagrostis x acutiflora | Overdam, Karl Foerster |
| Fir, Frasier | Abies fraseri | |
| Florida Leucothe (Pipestem) | Leucothoe populifolia | |
| Forsythia (Golden bells) | Forsythia x intermedia | Lynwood (Lynwood Gold) |
| Fragrant tea olive | Osmanthus fragrans | |
| Gardenia | Gardenia radicans | |
| Gardenia | Gardenia jasminoides | Frostproof, Mystery |
| Gaura | Gaura lindheimeri | Pink Fountain |
| Ginkgo | Ginkgo biloba | |
| Gold-dust plant | Aucuba japonica | Gold Dust |
| Green ash | Fraxinus pennsylvanica | Georgia Gem |
| Gumbo-limbo (Copperwood) | Bursera simaruba | |
| Hardy Kiwi | Actinidia arguta | Anna |
| Hawthorn, One seeded | Crataegus monogyna | Winter King |
| Hemlock, Eastern | Tsuga canadensis | |
| Hibiscus, Chinese | Hibiscus rosa-sinensis | President Red, San Diego Red |
| Holly, American | llex opaca | |
| Holly, Chinese | llex cornuta | Burfordii Nana, Carissa, Dwarf Burford, Needlepoint |
| Holly, Dragon lady | llex x aquipernyi | Dragon Lady |
| Holly, Dwarf yaupon | llex vomitoria | Compacta , Schillings, Stoke's Dwarf |
| Holly, Foster | llex x attenuata | East Palatka, Fosteri |
| Holly, Inkberry/Gallberry | llex glabra | Compacta, Densa, Shamrock |
| Holly, Japanese | llex crenata | Green Luster, Sky Pencil, Soft Touch |
| Holly, Meservae | llex meserveae | Blue Maid, Blue Princess |
| Holly, Nellie R. Stevens | llex aquifolium x llex cornuta | Nellie R. Stevens |
| | + | |

| Common Name | Scientific Name | Cultivar | |
|--------------------------------|----------------------------------|--|--|
| Holly, Winterberry | llex verticillata | Jim Dandy, Red Sprite | |
| Honeylocust | Gleditsia triacanthos | Sunburst, Sunshine | |
| Hornbeam, European | Carpinus betulus | Frans Fontaine | |
| Hornbeam, Hop | Ostrya virginiana | Carolina | |
| Indian Hawthorn | Rhaphiolepsis indica | Dwarf Pink, Minor, Pink Lady | |
| Japanese cleyera | Ternstromia gymnanthera | | |
| Jasmine, Asiatic/Yellow star | Trachelospermum asiaticum | Minima | |
| Jasmine, Winter | Jasminum nudiflorum | | |
| Juniper, Chinese | Juniperus chinensis | Gold Tip, Grey Owl, Sea Green, Spartan | |
| Juniper, Common | Juniperus communis | | |
| Juniper, Creeping | Juniperus horizontalis | Bar Harbor, Blue Rug | |
| Juniper, Flaky | Juniperus squamata | Blue Star | |
| Juniper, Parson's | Juniperus davurica | Expansa, Parsonii | |
| Juniper, Shore | Juniperus conferta | Blue Pacific | |
| Juniper (Red Cedar) | Juniperus virginiana | Brodie, Burkii | |
| Lantana | Lantana camara | Landmark Sunrise Rose | |
| Larch, Common | Larix decidua | | |
| Laurustinus | Viburnum tinus | | |
| Lilac | Syringa x 'Penda' | Bloomerang | |
| Lilac, Common | Syringa vulgaris | | |
| Liriope (Lilyturf) | Liriope muscari | Aztec Grass, Big Blue, Evergreen Giant, Silvery Sunproof | |
| London plane tree | Plantanus x acerifolia | Exclamation | |
| Loropetalum | Loropetalum chinensis | Burgundy, Emerald Snow, Plum Purple, Rubra, Ruby | |
| Maiden Grass (Eulaliagrass) | Miscanthus sinensis | Gracillimus, Zebrinus, Little Zebra | |
| Magnolia, Jane | Magnolia liliflora x M. stellata | | |
| Magnolia, Southern | Magnolia grandiflora | Bracken's Brown Beauty | |
| Mahogony, West Indies/American | Swietenia mahagoni | | |
| Maple, Autumn blaze | Acer x freemanii | Jeffersred | |
| Maple, Japanese | Acer palmatum | Bloodgood, Weeping Red Dragon | |
| Maple, Red | Acer rubrum | Autumn Blaze, Autumn Radiance, Frank's Red, October Glory, Red Sunset | |
| Mondograss | Ophiopogon japonicus | | |

| Common Name | Scientific Name | Cultivar |
|------------------------------------|--------------------------|--------------------------------|
| Muhly Grass | Muhlenbergia capillaris | |
| Nandina | Nandina domestica | Firepower |
| Oak, Northern pin | Quercus ellipsoidal | |
| Oak, Northern red | Quercus rubra | |
| Oak, Nuttal | Quercus nuttallii | |
| Oak, Pin | Quercus palustris | |
| Oak, Prairie stature | Quercus x bimundorum | Midwest |
| Oak, Shumard | Quercus shumardii | |
| Oak, Southern live | Quercus virginiana | Cathedral |
| Oak, White | Quercus alba | Swamp White |
| Ohio buckeye | Aesculus glabra | |
| Orchid Tree, Hong Kong | Bauhinia blakeana | |
| Palm, Bamboo/Reed | Chamaedorea seifrizzi | |
| Palm, Cat | Chamaedorea cataractarum | |
| Palm, Chinese Fan | Livistona chinensis | |
| Palm, Christmas | Adonidia merrillii | |
| Palm, Areca | Dypsis lutescens | |
| Palm, Coconut | Cocos nucifera | |
| Palm, European (Mediterranean) fan | Chamaerops humilis | |
| Palm, Foxtail | Wodyetia bifurcata | |
| Palm, Majesty | Ravenea rivularis | |
| Palm, Pygmy date | Phoenix roebelenii | |
| Palm, Queen | Syagrus romanzoffiana | |
| Palm, Roebelenii | Phoenix roebelenii | |
| Palm, Royal | Roistonea regia | |
| Palm, Triangle | Dypsis decaryi | |
| Palm, King Sago | Cycas revoluta | |
| Pear, Callery | Pyrus calleryana | Bradford Pear, Chanticleer |
| Pieris (Lily-of-the-Valley shrub, | Pieris japonica | Mountain Fire, Red Mill, Shojo |
| Japanese andromeda) | | |
| Pine, Black | Pinus nigra | |
| Pine, Eastern white | Pinus strobus | |
| | | |

| Common Name | Scientific Name | Cultivar | |
|-------------------------------------|--------------------------|--|--|
| Pine, Scots | Pinus sylvestris | | |
| Pittosporum (Japanese Pittosporum) | Pittosporum tobira | Variegata | |
| Pistache, Texas | Pistacia texana | | |
| Plum, American | Prunus americana | | |
| Plum, Crimson pointe | Prunus x cerasifera | | |
| Podocarpus (Buddhist pine) | Podocarpus macrophyllus | | |
| Prairie Cordgrass | Spartina pectinata | | |
| Privet | Ligustrum ovafolium | | |
| Privet, Vicary | Ligustrum x vicary | | |
| Redbud, Eastern | Cercis canadensis | MN Strain | |
| Rhododendron | Rhododendron spp. | | |
| Rose | Rosa spp. | Caramba, Double Knock Out®, Flower Carpet Amber, Home Run, Knock Out®, Louis Phillipe, Pink Knock Out®, Radrazz | |
| Rose | Rosa odorata | Belinda's Dream, Blue Girl, Double Delight, John F. Kennedy, Mister Lincoln | |
| Rose | Rosa wichurana | Dr. Huey | |
| Rose, Virginia | Rosa virginiana | | |
| Rose mallow | Hibiscus moscheutos | | |
| Rose of Sharon | Hibiscus syriacus | Pink Heart, Boule de Feu | |
| Russian sage | Perovskia atriplicifolia | | |
| Seagrape | Coccoloba uvifera | | |
| Skip laurel | Prunus laurocerasis | | |
| Snowberry, Common | Symphoricarpos albus | | |
| Spicebush | Lindera benzoin | | |
| Spirea (dormant only) | Spiraea japonica | Lemon Princess, Little Princess, Norman, Shirobana | |
| Spruce, Blackhills (White spruce) | Picea glauca | Densata | |
| Spruce, Colorado Blue (Blue spruce) | Picea pungens | | |
| Spruce, Norway | Picea abies | | |
| Sweetgum | Liquidambar styraciflua | Happidaze | |
| Tamarisk | Tamarix ramosissima | Pink Cascade | |
| Taxus (English/Common yew) | Taxus baccata | | |
| Taxus (Japanese Yew) | Taxus cuspidata | Capitada | |
| | | | |

| Common Name | Scientific Name | Cultivar |
|--|-----------------------|----------------------|
| Thin-fruit sedge | Carex flaccosperma | |
| Viburnum, Burkwood | Viburnum x burkwoodii | |
| Viburnum (Wayfaring Tree) | Viburnum lantana | Mohican |
| Viburnum, Popcorn (Japanese snowball) | Viburnum plicatum | Popcorn, St. Keverne |
| Waxflower | Chamelaucium spp. | |
| Wax myrtle, Southern (w/ woody growth) | Myrica cerifera | |
| Willow, Variegated | Salix integra | Hakuro Nishiki |
| Yellow Indian grass | Sorghastrum nutans | |

Do not use SPECTICLE FLO HERBICIDE on any of these plants.

| Common Name | Scientific Name |
|------------------------|--------------------------|
| Blue fescue grass | Festuca glauca |
| Croton | Codiaeum variegatum |
| Fountain grass | Pennisetum alopecuroides |
| Fountain grass, Purple | Pennisetum setaceum |
| Hydrangea | Hydrangea macrophylla |
| Sweet Viburnum | Viburnum odoratissimum |
| Viburnum | Viburnum suspensum |

NATURAL AREAS

Use SPECTICLE FLO HERBICIDE to control weeds in managed natural areas 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 FLO HERBICIDE in natural areas allows the user to manage undesirable weeds and prevent germination of invasive plants.

Apply SPECTICLE FLO HERBICIDE as a directed spray around tolerant landscape ornamentals listed on this label to control annual grasses and broadlead weeds prior to germination. In situations where vegetation is too thick for a directed spray application, over-the-top application is necessary. For over-the-top applications, all plants must be established for at least one growing season before an application of SPECTICLE FLO HERBICIDE. 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 accentable tolerance to over-the-top applications.

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

For control of undesirable grasses and broadleaf weeds present in areas to be treated, use a postemergence spot application of Acclaim Extra, or Celsius according to their labels.

AMOUNT TO USE: Apply SPECTICLE FLO HERBICIDE as a broadcast directed spray at 9 - 12 fl oz/A around landscape ornamentals. Apply 6 - 9 fl oz/A as an over-the-top application. Recommended spray volume is 40 - 80 gallons per acre or approximately 1 - 2 gallons per 1000 sq ft. Activate SPECTICLE FLO HERBICIDE by watering in with light irrigation or rainfall.

NON-SELECTIVE USES

NON-CROP AREAS

SPECTICLE FLO HERBICIDE 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 these areas to be treated for optimum control. Adequate irrigation or rainfall after application of SPECTICLE FLO HERBICIDE will provide maximum weed control.

Use of SPECTICLE FLO HERBICIDE near Sensitive Grasses

SPECTICLE FLO HERBICIDE applied uphill to sensitive grasses can move, under certain circumstances, to sensitive grasses and cause injury and stand reduction.

AMOUNT OF USE: Apply 9 - 18.5 fl oz of SPECTICLE FLO HERBICIDE per acre. Use a minimum spray volume of 10 gallons per acre. If weeds are present at the time of application, tank-mix a postemergence herbicide such as glyphosate or glufosinate ammonium with SPECTICLE FLO HERBICIO Exhserve all use restrictions on this label and on the label of the tank-mix carriner.

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. **PESTICINF DISPOSAI**

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 FPA recional office for outdance in promer disposal methods.

CONTAINER HANDLING

Rigid Non-refillable Containers that are too large to shake (i.e., with capacities greater than 5 gallons or 50 lbs)

Non-refillable container. Do not reuse or refill this container. Refer to Bottom Discharge IBC or Top Discharge IBC, Drums, Kegs information as follows.

Bottom Discharge IBC (e.g. – Schuetz Caged IBC or Snyder Square Stackable)

Pressure rinsing the container before final disposal is the responsibility of the person disposing of the container. To pressure rinse the container before final disposal, empty the remaining contents from the IBC into application equipment or mix tank. Raise the bottom of the IBC by 1.5 inches on the side which is opposite of the bottom discharge valve to promote more complete product removal. Completely remove the top lid of the IBC. Use water pressurized to at least 40 PSI to rinse all interior portions. Continuously pump or drain rinsate into application equipment or rinsate collection system while pressure rinsing. Continue pressure rinsing for 2 minutes or until rinsate becomes clear. Replace the lid and close bottom valve.

STORAGE AND DISPOSAL (continued)

Once container is rinsed, offer for recycling if available or puncture and dispose of in a sanitary landfill or by incineration.

Top Discharge IBC, Drums, Kegs (e.g. - Snyder 120 Next Gen, Bonar B120, Drums, Kegs)

Triple rinsing the container before final disposal is the responsibility of the person disposing of the container. To triple rinse the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container at least 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Rinse all interior surfaces. Pour or pump rinsate into application equipment or rinsate collection system. Receat this procedure two more times.

Once container is rinsed, offer for recycling if available or puncture and dispose of in a sanitary landfill or by incineration.

Rigid Non-Refillable containers with capacities smaller or equal to 5 gallons

PLASTIC CONTAINERS:

Non-refillable container. Do not reuse or refill this container. Tripled rinse container (or equivalent) promptly after emptying. **LIQUID Dillutable formulations:**

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.

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 properly 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 5000 CentreGreen Way, Suite 400 Cary, NC 27513

Bayer

EPA Reg. No. 432-1608

Spect(i)cle

INDAZIFLAM GROUP 29 HERBICIDE

HERBICIDE

Preemergence Herbicide for the Control of Grasses, Annual Sedges and Broadleaf Weeds in Warm Season Turfgrass, Landscape Ornamentals, Hedgerows, Hardscapes, and Natural Areas DO NOT USE FOR THE MANUFACTURING OF EFFIT USE

| ACTIVE INGREDIENT: Indaziflam | 7.4% |
|---|--------------------|
| OTHER INGREDIENTS: | |
| TOTAL: | 100.0% |
| This product is a Suspension Concentrate of | ontaining 0.622 lb |
| lactive ingredient per gallon. Shake well b | efore use. |

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

 $See\ Panel\ for\ First\ Aid\ Instructions\ and\ Booklet\ for\ Complete\ Precautionary\ Statements\ and\ Directions\ for\ Use.$

| | 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 vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. |
| If in eyes: | Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, and then continue rinsing. Call a poison control center or doctor for treatment advice. |
| 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 911 or an ambulance, and 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.

Net Contents 1 Gallon

86775387

86699648C 200831AV1

Bayer!





SPECTICLE® FLO HERBICIDE

Version 2.1 / USA Revision Date: 10/02/2017 102000025126 Print Date: 08/09/2019

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier

Trade name SPECTICLE® FLO HERBICIDE

Product code (UVP) 80193424, 85850822

SDS Number 102000025126

EPA Registration No. 432-1608

Relevant identified uses of the substance or mixture and uses advised against

Use Herbicide

Restrictions on useSee product label for restrictions.

Information on supplier

Supplier Bayer Environmental Science

2 T.W. Alexander Drive

Research Triangle PK, NC 27709

USA

Responsible Department Email: SDSINFO.BCS-NA@bayer.com

Emergency telephone no.

Emergency Telephone Number (24hr/ 7 days) 1-800-334-7577

Product Information Telephone Number

1-800-331-2867

SECTION 2: HAZARDS IDENTIFICATION

Classification in accordance with regulation HCS 29CFR §1910.1200

Acute toxicity(Inhalation): Category 4

Specific target organ toxicity - repeated exposure: Category 2

Labelling in accordance with regulation HCS 29CFR §1910.1200





Signal word: Warning

Hazard statements

Harmful if inhaled.

May cause damage to organs (Nervous system) through prolonged or repeated exposure.

Precautionary statements



SPECTICLE® FLO HERBICIDE

Version 2.1 / USA Revision Date: 10/02/2017 102000025126 Print Date: 08/09/2019

Do not breathe spray.

Do not breathe mist.

Use only outdoors or in a well-ventilated area.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER/doctor/physician if you feel unwell.

Dispose of contents/container in accordance with local regulation.

Hazards Not Otherwise Classified (HNOC)

No health hazards not otherwise classified. No physical hazards not otherwise classified.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component NameCAS-No.Concentration % by weightIndaziflam950782-86-27.41,2-Propanediol57-55-68.36

SECTION 4: FIRST AID MEASURES

Description of first aid measures

General advice When possible, have the product container or label with you when

calling a poison control center or doctor or going for treatment.

Inhalation Move 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 physician or poison control center immediately.

Skin contact Take off contaminated clothing and shoes immediately. Wash off

immediately with plenty of water for at least 15 minutes. Call a

physician or poison control center immediately.

Eye contact Hold eye 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 eye. Call a physician or poison control center

immediately.

Ingestion Call a physician or poison control center immediately. Rinse out mouth

and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim

unattended.

Most important symptoms and effects, both acute and delayed

Symptoms No symptoms known or expected.

Indication of any immediate medical attention and special treatment needed

Treatment Appropriate supportive and symptomatic treatment as indicated by the

patient's condition is recommended. There is no specific antidote.



SPECTICLE® FLO HERBICIDE

Version 2.1 / USA Revision Date: 10/02/2017 102000025126 Print Date: 08/09/2019

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media

Suitable Water spray, Foam, Carbon dioxide (CO2), Dry chemical

Unsuitable None known.

Special hazards arising from the substance or

mixture

Dangerous gases are evolved in the event of a fire.

Advice for firefighters

Special protective equipment for firefighters

Firefighters should wear NIOSH approved self-contained breathing

apparatus and full protective clothing.

Further information Keep out of smoke. Fight fire from upwind position. Cool closed

containers exposed to fire with water spray. Do not allow run-off from

fire fighting to enter drains or water courses.

Flash point No data available

Auto-ignition temperatureNo data availableLower explosion limitNo data availableUpper explosion limitNo data availableExplosivityNot applicable

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Precautions Keep unauthorized people away. Isolate hazard area. Avoid contact

with spilled product or contaminated surfaces.

Methods and materials for containment and cleaning up

Methods for cleaning up Soak up with inert absorbent material (e.g. sand, silica gel, acid

binder, universal binder, sawdust). Collect and transfer the product

into a properly labelled and tightly closed container. Clean

contaminated floors and objects thoroughly, observing environmental

regulations.

Additional advice Use personal protective equipment. If the product is accidentally

spilled, do not allow to enter soil, waterways or waste water canal. Do

not allow product to contact non-target plants.

Reference to other sections Information regarding safe handling, see section 7.

Information regarding personal protective equipment, see section 8.

Information regarding waste disposal, see section 13.



SPECTICLE® FLO HERBICIDE

 Version 2.1 / USA
 Revision Date: 10/02/2017

 102000025126
 Print Date: 08/09/2019

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Maintain exposure levels below the exposure limit through the use of

general and local exhaust ventilation. Handle and open container in a

manner as to prevent spillage.

Hygiene measures Wash hands thoroughly with soap and water after handling and before

eating, drinking, chewing gum, using tobacco, using the toilet or

applying cosmetics.

Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. Remove soiled clothing immediately and clean thoroughly before

using again. Wash thoroughly and put on clean clothing.

Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area. Protect from freezing.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

| Components | CAS-No. | Control parameters | Update | Basis |
|-----------------|-------------|--------------------|--------|----------|
| Indaziflam | 950782-86-2 | 0.56 mg/m3 | | OES BCS* |
| | | (TWA) | | |
| 1,2-Propanediol | 57-55-6 | 10 mg/m3 | 2010 | WEEL |
| - | | (TWA) | | |
| (Aerosol.) | | | | |

^{*}OES BCS: Internal Bayer AG, Crop Science Division "Occupational Exposure Standard"

Exposure controls

Personal protective equipment

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

Respiratory protection When respirators are required, select NIOSH approved equipment

based on actual or potential airborne concentrations and in

accordance with the appropriate regulatory standards and/or industry

recommendations.

Hand protection Chemical resistant nitrile rubber gloves

Eye protection Tightly fitting safety goggles

Skin and body protection Wear long-sleeved shirt and long pants and shoes plus socks.



SPECTICLE® FLO HERBICIDE

Version 2.1 / USA Revision Date: 10/02/2017 102000025126 Print Date: 08/09/2019

General protective measures Follow manufacturer's instructions for cleaning/maintaining PPE. If

no such instructions for washables, use detergent and warm/tepid

Keep and wash PPE separately from other laundry.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance white to beige

Physical State Liquid

Odor characteristic

Odour Threshold No data available

pН 5.0 - 8.0 at 10 % (23 °C) (deionized water)

Vapor Pressure No data available Vapor Density (Air = 1) No data available **Density** 1.01 g/cm3 at 20 °C

Evaporation rate No data available **Boiling Point** No data available **Melting / Freezing Point** No data available

Water solubility soluble

Minimum Ignition Energy Not applicable **Decomposition** No data available

temperature

Partition coefficient: n-No data available

octanol/water

Viscosity

300 - 900 cps at 25 °C

Flash point No data available

Auto-ignition temperature No data available Lower explosion limit No data available **Upper explosion limit** No data available **Explosivity** Not applicable

SECTION 10: STABILITY AND REACTIVITY

Reactivity

Thermal decomposition No data available

Chemical stability Stable under recommended storage conditions.



SPECTICLE® FLO HERBICIDE

Version 2.1 / USA Revision Date: 10/02/2017 102000025126 Print Date: 08/09/2019

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid freezing

Incompatible materials No data available

Hazardous decomposition

products

Thermal decomposition can lead to release of:

Hydrogen cyanide (hydrocyanic acid)

Hydrogen fluoride Carbon monoxide Nitrogen oxides (NOx)

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes Ingestion, Inhalation, Eye contact, Skin contact

Immediate Effects

Eye May cause mild irritation to eyes.

Skin May cause mild irritation to the skin.

Information on toxicological effects

Acute oral toxicity LD50 (female Rat) > 5,000 mg/kg

Acute inhalation toxicity LC50 (male/female combined Rat) > 2.09 mg/l

Exposure time: 4 h

Determined in the form of liquid aerosol.

Acute dermal toxicity LD50 (male/female combined Rat) > 5,000 mg/kg

Skin irritation slight irritation (Rabbit)

Eye irritation Minimally irritating. (Rabbit) **Sensitisation** Non-sensitizing. (Guinea pig)

Assessment STOT Specific target organ toxicity - repeated exposure

Indaziflam caused neurobehavioral effects and/or neuropathological changes in subchronic studies in rats and dogs.

Assessment mutagenicity

Indaziflam was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

Assessment carcinogenicity

Indaziflam was not carcinogenic in lifetime feeding studies in rats and mice.

ACGIH

None.

NTP

None.



7/10

SPECTICLE® FLO HERBICIDE

Version 2.1 / USA Revision Date: 10/02/2017 102000025126 Print Date: 08/09/2019

IARC

None.

OSHA

None.

Assessment toxicity to reproduction

Indaziflam was not a primary reproductive toxicant in a two-generation study in rats.

Assessment developmental toxicity

Indaziflam did not cause developmental toxicity in rats and rabbits.

Further information

Only acute toxicity studies have been performed on the formulated product.

The non-acute information pertains to the active ingredient(s).

SECTION 12: ECOLOGICAL INFORMATION

Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)) 0.572 mg/l

Exposure time: 96 h

The value mentioned relates to the active ingredient indaziflam.

Toxicity to aquatic

invertebrates

EC50 (Daphnia magna (Water flea)) > 9.88 mg/l

Exposure time: 48 h

The value mentioned relates to the active ingredient indaziflam.

Toxicity to aquatic plants IC50 (Raphidocelis subcapitata (freshwater green alga)) 0.134 mg/l

Growth rate; Exposure time: 96 h

The value mentioned relates to the active ingredient indaziflam.

Biodegradability Indaziflam:

Not rapidly biodegradable

Koc Indaziflam: Koc: 496

Bioaccumulation Indaziflam: Bioconcentration factor (BCF) 66

Does not bioaccumulate.

Mobility in soil Indaziflam: Moderately mobile in soils

Environmental precautions Do not apply directly to water, to areas where surface water is present

or to intertidal areas below the mean high water mark.

Do not contaminate surface or ground water by cleaning equipment or

disposal of wastes, including equipment wash water.

Do not allow to get into surface water, drains and ground water. Do not apply when weather conditions favor runoff or drift.

Drift or runoff from treated areas may adversely affect non-target plants.

Apply this product as specified on the label.



SPECTICLE® FLO HERBICIDE

Version 2.1 / USA Revision Date: 10/02/2017 102000025126 Print Date: 08/09/2019

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Product Pesticide, spray mixture or rinse water that cannot be used according to

label instructions may be disposed of on site or at an approved waste

disposal facility.

Contaminated packaging Do not re-use empty containers.

Triple rinse containers.

Dispose of empty container in a sanitary landfill or by incineration, or, if

allowed by State/Provincial and local authorities, by burning.

If burned, stay out of smoke.

Follow advice on product label and/or leaflet.

RCRA Information Characterization and proper disposal of this material as a special or

hazardous waste is dependent upon Federal, State and local laws and

are the user's responsibility. RCRA classification may apply.

SECTION 14: TRANSPORT INFORMATION

49CFR Not dangerous goods / not hazardous material

IMDG

UN number 3082
Class 9
Packaging group III
Marine pollutant YES

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(INDAZIFLAM SOLUTION)

IATA

UN number 3082
Class 9
Packaging group III
Environm. Hazardous Mark YES

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(INDAZIFLAM SOLUTION)

This transportation information is not intended to convey all specific regulatory information relating to this product. It does not address regulatory variations due to package size or special transportation requirements.

Freight Classification: COMPOUNDS, TREE OR WEEDKILLING, N.O.I., other than

poison; HAVING A DENSITY OF GREATER THAN 20 LBS.

PER CUBIC FOOT



9/10

SPECTICLE® FLO HERBICIDE

Version 2.1 / USA Revision Date: 10/02/2017 102000025126 Print Date: 08/09/2019

SECTION 15: REGULATORY INFORMATION

EPA Registration No. 432-1608

US Federal Regulations

TSCA list

1,2-Propanediol 57-55-6

US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

None.

SARA Title III - Section 302 - Notification and Information

None.

SARA Title III - Section 313 - Toxic Chemical Release Reporting

None.

US States Regulatory Reporting

CA Prop65

This product does not contain any substances known to the State of California to cause cancer.

This product does not contain any substances known to the State of California to cause reproductive harm.

US State Right-To-Know Ingredients

1,2-Propanediol 57-55-6 MN, RI

Canadian Regulations

Canadian Domestic Substance List

None.

Environmental

CERCLA

None.

Clean Water Section 307 Priority Pollutants

None.

Safe Drinking Water Act Maximum Contaminant Levels

None.

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms

49CFR Code of Federal Regulations, Title 49
ACGIH US. ACGIH Threshold Limit Values

ATE Acute toxicity estimate

CAS-Nr. Chemical Abstracts Service number

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

EINECS European inventory of existing commercial substances

ELINCS European list of notified chemical substances IARC International Agency for Research on Cancer IATA International Air Transport Association IMDG International Maritime Dangerous Goods

N.O.S. Not otherwise specified



SPECTICLE® FLO HERBICIDE

Version 2.1 / USA Revision Date: 10/02/2017 102000025126 Print Date: 08/09/2019

NTP US. National Toxicology Program (NTP) Report on Carcinogens
OECD Organization for Economic Co-operation and Development

TDG Transportation of Dangerous Goods

TWA Time weighted average

UN United Nations

WHO World health organisation

NFPA 704 (National Fire Protection Association):

Health - 2 Flammability - 1 Instability - 0 Others - none

HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)

Health - 1 Flammability - 1 Physical Hazard - 0 PPE -

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

Reason for Revision: Section 11: Toxicological Information.

Revision Date: 10/02/2017

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