

# NOTICE OF WEED CONTROL APPLICATION

Date of Application: February 16,2024

**Location:** Maule/Hualapai Paseo

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

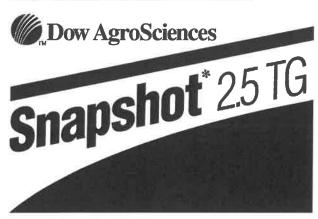
-Precautionary statement: Causes moderate eye irritation. Harmful if swallowed or inhaled. Prolonged or frequently repeated skin contact may cause allergic reaction in some.

<sup>\*</sup>No applications within 25 feet of playgrounds

<sup>\*</sup>See attached label and SDS sheet

<sup>\*</sup>Dates are subject to change due to weather

# Specimen Label



# **Specialty Herbicide**

\*Trademark of Dow AgroSciences LLC

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
- Ground Covers / Perennials
- Non-bearing Fruit and Nut Trees
- Non-bearing Vineyards
- Non-cropland

Active Ingredients:

trifluralin: $\alpha,\alpha,\alpha$ -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%
Inert Ingredients	97.5%
Total	100.0%

Contains 1.25 pounds active ingredient per 50 pound bag.

U.S. Patents 4,636,243 and 5,086,184.

EPA Reg. No. 62719-175

# Keep Out of Reach of Children CAUTION PRECAUCION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

## **Precautionary Statements**

**Hazards to Humans and Domestic Animals** 

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.

Notice: Read the entire label. Use only according to label directions. Before using this product, read Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies elsewhere on this label. If terms are unacceptable, return at once unopened.

In case of emergency endangering health or the environment involving this product, call 1-800-992-5994. If you wish to obtain additional product information, visit our web site at www.dowagro.com.

Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.

## **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 greenhouses.

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.

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.

Container Disposal: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, in accordance with applicable regulations, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

## General Instructions and Information

Snapshot\* 2.5 TG herbicide is a preemergence product for control of certain broadleaf weeds and annual grasses in container and landscape ornamentals, nursery stock, Christmas trees, ground covers/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 specialty herbicide 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 stolens, rhizomes, or root pieces. Existing weeds should be controlled by cultivation or with postemergence 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 1-2 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 pounds 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.

## Snapshot 2.5 TG Broadcast Rates

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	

One pound 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		
Ī	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 by Snapshot 2.5 TG

Weeds Controlled When Applied at 100 lb/acre (2.3 lb/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

pepperweed, Virginia pigweed pineappleweed

panicum, fall

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 witchgrass

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 Conyza 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

## In Addition to the Weeds Listed at the 100 lb/acre Rate, the Following Weeds Will Be Controlled at 150 lb/acre (3.5 lb/1000 sq ft)

**Common Name** 

aster, heath bittercress bittercress, hairy brassbuttons, southern carrot, wild

chamberbitter chickweed, mouseear

dandelion eclipta fireweed foxtail, giant galinsoga, hairy geranium, Carolina groundsel, common ladysthumb lettuce, prickly lovegrass

mayweed morningglory, ivyleaf mustard, black pennywort

mallow, dwarf

marestail

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 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 Ipomoea hederacea Brassica nigra Hydrocotyle spp. Phyllanthus tenellus

Plantago lanceolata Phytolacca americana Calandrinia ciliata var. menziesii Lolium multiflorum Sida spinosa Rumex acetosella Veronica serpyllifolia Euphorbia hyssopifolia

Plantago aristata

Plantago major

Euphorbia maculata Melilotus officinalis Descurainia pinnata Abutilon theophrasti Oxalis stricta

In Addition to the Weeds Listed at the 100 lb/acre and 150 lb/acre Rates, the Following Weeds Will Be Controlled at 200 lb/acre (4.6 lb/1000 sq ft)

**Common Name** 

barley, hare bromegrass

burclover, California cheat

datura doafennel eveningprimrose fescue, rattail

Scientific Name

Hordeum leporinum Bromus spp.

Medicago polymorpha Bromus secalinus

Datura spp.

Eupatorium capillifolium Oenothera spp.

Vulpia myuros

filaree, whitestem goosefoot, nettleleaf goosegrass imsonweed

knotweed, silversheath

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 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

In Addition to the Weeds Controlled, the Following Weeds Will Be Partially Controlled or Suppressed at 200 lb/acre (4.6 lb/1000 sq ft)

**Common Name** 

woodsorrel, creeping

bindweed, field carpetweed dock, curly

shattercane

johnsongrass (seedling) mallow, Venice milkweed, honeyvine morningglory, tall panicum, Texas pustey, Florida

**Scientific Name** 

Oxalis corniculata

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

## **Labeled 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 omamentals, 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.
- · ground covers until they are established and well rooted.

Do not apply Snapshot 2.5 TG to newly transplanted ornamentals, nursery stock, Christmas trees, ground covers, 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 pounds 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.

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.

Acanthus mollis (oak leaf acanthus)

Ajuga spp. (bugle)

Arenaria montana (mountain sandwort)

Brassica spp. (mustard)

Dicentra luxuriant (luxuriant bleeding heart)

Digitalis purpurea (foxglove)

Echinacea purpurea (purple coneflower)

Euonymus alatus 'compacta' (dwarf burning bush)

Euphorbia spp. (spurge)

Geranium cinereum 'Ballerina' (ballerina cranesbill)

Gypsophila paniculata (white festival baby's breath)

Hydrangea spp. (hydrangea)

Iberis spp. (candytuft)

Juniperus horizontalis 'Prince of Wales' (Prince of Wales juniper)

Melaleuca quinquenervia (cajeput tree)

Phlox paniculata (summer phlox)

Pulmonaria longifolia (Bertram Anderson lingwort)

Rhododendron carolinianum (Carolina rhododendron)

Rhododendron catawbiense 'Roseum elegans' (Roseum elegans

rhododendron)

Sedum spp. (stonecrop)

Vinca minor 'Atropurpurea' (wine periwinkle)

Yucca recurvifolia (green yucca)

# Snapshot 2.5 TG May Be used On the Following Established Plant Species

(Note: Limitations on recommended treatment methods)

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

Scientific Name	Common Name	r = rieid Growi
Abies balsamea Abies concolor	Fir, balsam Fir, white	C, F F
Abutilon hybridum	Albus-flowering maple	С, 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_
Acer coccharia um	Red sunset maple	F
Acer saccharinum Alsophila australis	Silver maple Australian tree fern	C, F
Areacastrum	Queen palm	C, F
romanzoffianum	Queen paini	C, F
Betula nigra	Birch, river	C, F
Betula papyrifera	Paper birch	6, i
Brachychiton populneus	Bottle tree	С, <b>F</b>
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	Cat Palm	F
cataractarum	Palm	C, F
Chamaedorea costaricana	Palm	C, F
Chamaedorea elegans	Parlor palm	C, F
Cornus florida	Cloud nine dogwood	C, F
Crotopaus viridio	Dogwood, flowering	C, F
Cryptomoria inponing	Green hawthorn Cryptomeria, Japanese	F
Cryptomeria japonica Cupaniopsis	Carrot wood	C, F F
anacardioides		Г
Cupressocyparis x	Emerald island leyland cypress	C, F
'Emerald Isle'	Autori	
Cupressus arizonica	Arizona cypress	_
Cupressus glabra Cupressus	Arizona cypress	F
sempervirens	Italian cypress	C, F
Dicksonia antarctica	Tasmanian tree fern	C, F
Elaeagnus angustifolia	Russian olive	C, F
Elaegnus x 'Gilt edge'	Gilt edge strawberry	C, F
Eucalyptus camaldulensis	Red gum eucalyptus	F
	Eucalyptus, mealy	F
· ·	Silver dollar eucalyptus	F
Eucalyptus microtheca	Coolibah tree	C, F
Eucalyptus sideroxylon	Eucalyptus, red ironbark	F
Ficus benjamina	Ficus	C, F
	Mini ficus	C, F
	Shamel ash	C, F
Ginkgo biloba	Ginkgo (Maidenhair tree)	F

Gleditsia triacanthos  Heteromeles arbutiflora	Honey locust Shademaster honey locust Toyon	F F F	Shrubs	Recommended Treatme	ner Grown
	•		Colombida Nama		eld Grown
Illicium floridanum	Florida anise-tree	C, F	Scientific Name	Common Name	
Juniperus virginiana Liquidambar styraciflua	Redcedar, Eastern	C, F F	Abalia avandiflava	Edward Occabas ab alla	
	Sweetgum, American		Abelia grandiflora	Edward Goucher abelia	C, F
Magnolia grandiflora Morus alba	Magnolia, Southern	C, F F	Annais abveniains	Glossy abelia	C, F
Musa aluminata	White mulberry	•	Acacia abyssinica	Abyssinica acacia	C, F
	Banana	C, F	Acacia redolens	Acacia, prostrate	C, F
Oxydendrum arboreum Picea abies	Sourwood	C, F	Acacia stenophylla	Shoestring acacia	C, F
ricea abies	Pendula-weeping Norway spruce	C, F	Acalypha wilkesiana	Copper leaf	C, F
	Repens-spreading Norway spruce	C, F C, F	Acer ginnala	Amur maple	C, F
Piana alayen	Spruce, Norway		Acer palmatum	Coral bark Japanese maple	C, F
Picea glauca	Conica-dwarf Alberta spruce	C, F F	A consulting of insuran	Dwarf Japanese maple	C, F
Picea glauca conica	Dwarf Alberta spruce	-	Agapanthus africanus	Queen Anne Lily of the Nile	C, F
Picea pungens	Dwarf globe blue spruce	C, F	Agave americana	Century plant	F _
	Glauca-Colorado blue spruce	C, F C, F	Anisodontea	Cape mallow	C, F
	Hoopsii-Hoop's blue spruce		hypomandarum	Bad and controls	
Dinesa naintata	Koster-Koster blue spruce	F	Aptenia cordifolia	Red apple aptenia	C, F
Pinus aristata	Bristlecone pine	F	Ardisia japonica	Chirimen marlberry	C, F
Pinus canariensis	Canary Island pine	F	Astible arendsii	false spiraea	C, F
Pinus contorta	Shore pine, beach pine	F	Astilbe chinensis	Astilbe/false spirea	C, F
Pinus eldarica	Eldarica pine	C, F	Athyrium nipponimcum	Japanese painted fern	C, F
Pinus leucodermis	Bosnian pine	C, F	Baccharis pilularis	coyotebush	F
Pinus mugo	Pumilio-shrubby swiss mountain pine	C, F	Berberis gladwynensii	William Penn barberry	C, F
Pinus nigra	Austrian black pine	C, F	Berberis mentorensis	Mentor barberry	C, F
Pinus radiata	Monterey pine	F	Berberis thunbergii	Aurea-golden Japanese barberry	F
Pinus strobus	Eastern white pine	C, F		Crimson pygmy barberry	C, F
Pinus strobus	white pine	C, F		Rose glow barberry	C, F
Pinus sylvestris	Columnar Scotch pine	C, F		Atropurea-redleaf Japanese barberry	F
	Scotch pine	C, F		Cherry bomb barberry	C, F
Pinus thunbergiana	Japanese black pine	C, F	Bougainvillea spp.	Barbara Karst	C, F
Platanus occidentalis	American sycamore	F		California gold	C, F
Platanus racemosa	Califorina sycamore	F		Pink pixie	C, F
Podocarpus spp.	Podocarpus	F		Scarlet O'Hara	C, F
Populus deltoides	Cottonwood	F		Temple fire	C, F
Prosopis chilensis	Chilean mesquite	C, F		Texas dawn	C, F
Prunus yedoensis	Yoshino flowering cherry	F	Buxus x 'Green velvet'	Green velvet boxwood	C, F
Quercus ilicifolia	Bear oak	F	Buxus microphylla	Boxwood, Japanese	C, F
Quercus palustris	Pin oak	F	japonica		_
Quercus phellos	Willow oak	C, F	Buxus microphylla	Korean boxwood	F
Quercus rubra	Red oak	C, F	Koreana	B .	
Quercus virginiana	Live oak	C, F	Buxus sempervirens	Boxwood, common	C, F
Salix babylonica	Babylon weeping willow	F	Callistemon citrinus	Bottlebrush, lemon	F
Comunicatendron	Corkscrew willow	F	Callistemon viminalis	Weeping bottlebrush	C, F
Sequoiadendron	Giant sequoia	F	Calluna vulgaris	spring torch scotch heather	C, F
giganteum	Makanaw	_	Camellia japonica	Camellia	C, F
Swietenia mahogani	Mahogany	F	Caryopteris x	Dark knight bluebeard	C, F
Tabebuia caraiba	Yellow tab	F	clandonen	Occasion for H	
Tsuga canadensis	Eastern hemlock	C, F	Cassia artemisioides	Cassia, feathery	C, F
Ulmus parvifolia	Chinese elm	F F	Ceanothus spp.	Wild lilac	F
Washingtonia robusta	Mexican fan palm	Г	Cephalotaxus drupacae	Plum yew	C, F
			Champagunaria ahtuga	Snow-in-summer	C, F
			Chamaecyparis obtusa	Kosteri cypress	C, F
				Nana-dwarf Hinoki cypress	C, F
			Chamaanyaaria aiaifa	Torulosa cypress	C, F
			Chamaecyparis pisifera	baileyi-dogwood	F
				Flaviramea-dogwood	F
			Chamasauraria	Squarrosa Minima cypress	C, F
			Chamaecyparis pisifera spp.	Filifera-thread cypress	C, F

Chrysalidocarpus	Areca palm	F	Hibiscus syriacus	Rose of Sharon, Red Bird	C, F
lutescens				Rose of Sharon, Red Heart	F
Clethra alnifolia	Summersweet	C, F		Rose of Sharon, Woodbridge	C, F
Cleyera japonica	Cleyera, Japanese	C, F		Rose of Sharon, Aphrodite	
Coleonema pulchrum	Pink breath of heaven	C, F		Rose of Sharon, Helene	
Convolvius cneorum	Bush morning glory	C, F	llex aquifolium	Balkans holly	F
Cornus alba	Sibirica-Siberian dogwood	C, F		Gold coast holly	F
Cornus stolonifera	Baileyi-red-osier dogwood	F	Ilex aquipernyi	San Jose holly	C, F
	Flaviramea-yellowtwig dogwood	F	llex attenuata	Savannah holly	C, F
Cotinus coggygria	Royal purple smoke tree	C, F	llex cornuta	Burford holly	C, F
Cotinus dammeri	Coral beauty smoke tree	C, F		dwarf Burford holly	C, F
	Eichholz smoke tree	C, F		needle point holly	C, F
Cotoneaster adpressus	Praecox-early cotoneaster	C, F	llex crenata	Compacta-dwarf Japanese holly	C, F
Cotoneaster apiculatus	Cotoneaster, cranberry	C, F	llex crenata	Convexa holly	C, F
Cotoneaster congestus	Cotoneaster, Pyrenees	C, F		Dwarf Chinese holly	C, F
Cotoneaster dammeri	Cotoneaster, bearberry	C, F		Green luster holly	C, F
Cotoneaster himalayan	Himalayan cotoneaster	C, F		Helleri-Heller's Japanese holly	C, F
Cotoneaster	Cotoneaster, rock	C, F		Hetzii's Japanese holly	C, F
horizontalis		•		Stokesii Japanese holly	C, F
Cotoneaster opiculata	Cotoneaster	C, F	llex glabra	compacta-compact inkberry holly	C, F
Cycas revoluta	Sago palm	C, F	9	Nordica-inkberry holly	C, F
Cytisus praecox	Hollandia-warminster broom	C, F	llex meserveae	Blue boy holly	C, F
Cytisus scoparius	Lena-Scotch broom	C, F		Blue girl holly	C, F
Cytisus spp.	Holandia-Scotch broom	F		China boy holly	٥, ١
Daphne odora	Fragrant daphne	C, F		China girl holly	
Deutzia crenata	Nakiana-dwarf deutzia	C, F		Ebony magic holly	F
Deutzia gracilis	Slender gracilis	C, F	Ilex vomitoria	Nana-dwarf yaupon holly	, C, F
Dodonea viscosa	Hopseed bush	F		Pendula-weeping yaupon holly	C, F
Elaeagnus pungens	Fruitland silver berry	C, F		yaupon holly	C, F
Erica cinerea	Purple bell heather	C, F	Illicium annisatum	Mystery gardenia	C, F
Erica vagans	Cornish heather	C, F	Itea ilicifolia	Henry Garnet holly leaf sweetspire	C, F
Erica x darleyensa	Mediterranean pink heather	C, F	Ixora collinea	Ixora	C, F
Eugenia myrtifolia	Dwarf brush cherry	C, F	Juniperus chinensis	hollywood juniper	C, F
Euonymus x 'Aureo	Gold spot euonymus	C, F	ouriperus eminerisis	Media-old gold juniper	C, F
variegatus'	adia opor dadriyinas	0, 1		pfitzer juniper	C, F
Euonymus x 'Chollipo"	Chollipo eunoymus	C, F		Pfitzerana glauca-blue juniper	
Euonymus fortunei	Canadale gold euonymus	C, F			C, F
Laonymas tottanei	Emerald'n gold euonymus	Б, г Б		Pfitzerana-pfitzer juniper	C, F
	Sunspot euonymus	, С, F		Sea green juniper	F
Euonymus japonica	Silver king euonymus	F.	Juniperus conferta	Torulosa-hollywood juniper	C, F
Luchymus japomea	Variegated evergreen euonymus	C, F	Julipelus comena	Emerald sea shore juniper	C, F
Euonymus kiatschovica	Spreading euonymus	C, F	luninarua harizantalia	Shore juniper	C, F
Euonymus vegetus	Bigleaf wintercreeper	C, F	Juniperus horizontalis	Andorra juniper	C, F
Euryops pectinatus	Dwarf euryops	C, F		Bar Harbor juniper	C, F
<b>-</b>	Dwarreuryops			Blue chip juniper	C, F
Fatshedera japonica Fatsia japonica	lananana aralia	C, F		Blue rug juniper	C, F
Felicia ameloides	Japanese aralia	C, F		Creeping juniper	C, F
	Blue marguerite	C, F		Dwarf Andorra juniper	C, F
Forsythia intermedia	Forsythia, border	C, F		Huntington blue juniper	C, F
Forsythia x 'Spring	Spring glory forsythia	C, F		Plumosa-Andorra juniper	C, F
glory'	Assessed to a series of a series	0.5		Wiltonii-blue carpet juniper	C, F
Gardenia jasminoides	August beauty gardenia	C, F	Juniperus procumbens	Nana-dwarf Japaneses garden	C, F
	Gardenia	C, F		juniper	
On the second	Radican gardenia	C, F	Juniperus prostrata	Prostrata juniper	C, F
Gaultheria shallon	Salal/lemon leaf	C, F			
Gelsemium	Carolina jessamine	C, F			
sempervirens	144				
Genista pilosa	Woadwaxen	C, F			
Hibiscus rosa-sinensis	Ross Estey-hibiscus	C, F			

Juniperus sabina	Broadmoor juniper	C, F	Pinus mugo	Mugo-mugho pine	C, F
	Foemina-Hicks juniper	C, F	Pittosporum tobira	Green pittosporum	C, F
	Savin juniper	C, F		Wheeler's dwarf pittosporum	C, F
	Tamariscifolia-Tam juniper	C, F	Plumbago ariculata	Blue cape plumbago	F
Juniperus scopulorum	Emerald green juniper	F	Plumbago capensis	Plumbago	C, F
Juniperus squamata	Blue juniper	C, F	Podocarpus	Yewpine	C, F
	Blue star juniper	C, F	macrophyllus		
	Parsonii juniper	C, F	Polygala dalmaisiana	Sweet pea shrub	C, F
Kalmia latifolia	Laurel, mountain	C, F	Polystichum	Tassel fern	C, F
Lagerstroemia indica	Crape myrtle	C, F	polyblepharum		
<i>Lantana</i> spp.	Lantana	C, F	Potentilla fragiformis	Cinquefoil	F
Lavandula angustifolia	English lavander	C, F	Potentilla fruticosa	Cinquefoil	C, F
Lavandula latifolia	English spike lavander	C, F		Gold drop pontentilla	F
Lavandula officianalis	English lavander	C, F		Goldfinger potentilla	C, F
Leptospermum	New Zealand tea tree	C, F		Red ace potentilla	C, F
scoparium				Sunset potentilla	C, F
Leucothoe axillaris	Leucothoe, coast	C, F		Tangerine potentilla	C, F
Leucothoe fontanesiana		C, F	Potentilla verna	Spring cinquefoil	C, F
Ligustrum japonicum	Privet, Japanese	C, F	Prunus gladulosa	Dwarf pink flowering almond	C, F
	wax ligustrum	C, F	Pyracantha fortuneana	Lolendei Monrovia pyracantha	C, F
	yellow tip ligustrum	C, F		Monon pyracantha	F
Ligustrum lucidum	Privet, glossy	C, F		Red elf hybrid pyrcantha	F
Ligustrum ovalifolium	California privet	F _		Rutgers hybrid pyracantha	C, F
Ligustrum texanum	Howardi privet	C, F		Santa Cruz pyracantha	C, F
	wax leaf privet	C, F		Victory pyracantha	F
Ligustrum vicaryi	Privet, golden	F	Rhaphiolepis indica	Charisma-Monruce rhaphiolepis	C, F
	Vicary golden privet	F		Enchantress-Moness rhaphiolepis	F
Ligustrum vulgare	Lodense privet	C, F		Rhaphiolepsis (India hawthorn)	C, F
Livistona chinensis	Chinese fountain palm	F		Springtime-Monme rhaphiolepis	F
Lonicera fragrantissima	Winter honeysuckle	C, F	Rhaphiolepis ovata	Roundleaf rhaphiolepis	C, F
Lonicera periclymenum	Flowering woodbine	C, F	Rhododendron	Cannon's double azalea	C, F
	Serotina woodbine	C, F	calendulaceum	Flame azalea	F
Lonicera sempervirens	Trumpet honeysuckle	C, F		Golden flare azalea	C, F
Loropetalum chinense	Fringe flower	C, F		Klondike azalea	C, F
Mahonia aquifolium	Dwarf Oregon grape	C, F	Rhododendron	Butterfly rhododendron	F
compacta	Lasthan last week and	0.5	campylocarpum	B. 11	
Mahonia bealei	Leather leaf mahonia	C, F	Rhododendron	PJM rhododendron	C, F
Mahonia repens	Creeping mahonia	C, F	carolinianum x		
Myrica cerifera	Wax myrtle	C, F	daurium		_
Nandina domestica	Compacta-dwarf heavenly bamboo	C, F	Rhododendron	Catawba album rhododendron	C, F
	Harbour dwarf-heavenly bamboo	C, F	catawbiense	Catawba rhododendron	C, F
	Heavenly bamboo (Nandina)	C, F		Lord Roberts rhododendron	C, F
	Nana compacta-heavenly bamboo	C, F	District design	Rocket rhododendron	C, F
	Nana purpurea-heavenly bamboo	C, F	Rhododendron	Cunninham White rhododendron	C, F
Norium olaandar	Woods dwarf-heavenly bamboo	C, F	caucasium x		
Nerium oleander	Hardy red oleander	C, F	ponticum	Owner I I I I	
	Oleander	C, F	Rhododendron exbury	Cannon's double azalea	C, F
Comanthus fortunai	Ruby lace oleander	C, F		golden flare azalea	C, F
Osmanthus fortunei Pachysandra terminalis	Fortunes osmanthus	C, F	Dhadadan dan fama 4	Klondike azalea	C, F
Phoenix roeloelenii	Japanese spurge	C, F	Rhododendron forrestii	Gomer Waterer rhododendron	C, F
Photinia fraseri	Pigmy date palm	C, F	repens	Files heather the advantage of the	
Pieris japonica	Fraser's photinia Lily-of-the-valley	C, F	Rhododendron forrestii	Elizabeth rhododendron	C, F
riens japonica		C, F	x griersonianum	January Marshall and a day of the con-	
	Mountain fire lily-of-the-valley	C, F C, F	Rhododendron	Jean Marie rhododendron	C, F
	Snowdrift lily-of-the-valley		griffithianum		
	Temple bells lily-of-the-valley Valley rose lily-of-the-valley	C, F C, F			
Pieris japonica x forestii	Valley valentine lily-of-the-valley Forest flame lily-of-the-valley	C, F			
попо јарониса х тогевш	Torest name my-or-the-valley	C, F			

Rhododendron	America rhododendron	C, F	Solanum rantonetii	Paraguay nightshade	C, F
<i>hybrid</i> spp.	English Roseum rhododendron	F	Spiraea bumalda	Anthony Waterer spiraea	C, F
	Nova Zembla rhododendron	C, F	Spiraea x cinerea	First snow spiraea	
	Scintillation rhododendron	C, F	'Grefsheim'		
Rhododendron	Rhododendron	C, F	Spiraea japonica	Dolchia spiraea	C, F
impeditum	_			Japanese alpine spiraea	C, F
Rhododendron indica	Formosa azalea	C, F		Shirobana spiraea	C, F
Rhododendron indica	Waucabusa azalea	C, F	Spiraea vanhouttei	Bridal wreath	C, F
Rhododendron	Blue danube azalea	C, F	Syringa rothomagensis	Chinese lilac	C, F
kaempferi			Syringa vulgaris	Lilac, common	F
Rhododendron kerume	Coral bells azalea	C, F	Taxus cuspidata	Yew, Japanese	F
	Hino crimson azalea	C, F	Tecomaria capensis	Cape honeysuckle	C, F
	Hino pink azalea	C, F	Ternstroemia	Ternstroemia, Japanese	C, F
	Mildred azalea	C, F	gymnanthera		
	Snow azalea	C, F	Thuja occidentalis	Emerald arborvitae	C, F
Rhododendron	Rhodie max (rosebay)	C, F		Globosa-globe arborvitae	C, F
maximum				Little giant-dwarf arborvitae	C, F
Rhododendron	Rhododendron	F		Nigra-dark American arborvitae	C, F
mucronulatum				Pyramidalis arborvitae	C, F
Rhododendron obtusum	Hino-crimsom azalea	C, F		Rheingold arborvitae	C, F
Rhododendron	Chioniodes rhododendron	C, F		Techny arborvitae	F
ponticum			Thuja occidentalis	Woodwardii arborvitae	C, F
Rhododendron	Daphinoides rhododendron	C, F	Thuja orientalis	Aureus nana-dwarf golden arborvitae	C, F
ponticum	·		•	Minima glauca-dwarf arborvitae	C, F
Rhododendron x	Purple gem rhododendron	C, F	Veitchia merrilli	Christmas palm	F
'purple gem'	. 0	•	Viburnum bodnantense	Pink dawn viburnum	C, F
Rhododendron	Dwarf scarlet wonder rhododendron	C, F	Viburnum çarlesii	Koreanspice viburnum	C, F
racernosum	Tribly rhododendron	C, F	Viburnum davidii	David viburnum	C, F
	Unique rhododendron	C, F	Viburnum japonicum	Viburnum	F
	Vulcan rhododendron	C, F	Viburnum judd	Viburnum	С, F
Rhododendron	Ramapo rhododendron	C, F	(v. X juddii)	VIDAITOIT	0, 1
sassthigiatim x		<b>O</b> , .	Viburnum lantana	Wayfaring tree	F
carolinianum			Viburnum opulus sterile	Common snowball viburnum	F
Rhododendron satuski	Gumpo pink azalea	C, F	Viburnum plicatum	Doublefile viburnum	, C, F
	Higasa azalea	F.	tomentosum	Bodbielile Vibarriairi	O, 1
	I IIgada azaida	C, F	Viburnum setigerum	Tea viburnum	F
	Reijn azalea	C, F	Viburnum tinus	Spring bouquet viburnum	F
Rhododendron spp.	Carror azalea	C, F	compactum	Opining bounder vibunium	Г
hybrids	Fashion azalea	0, 1	Viburnum trilobum	Cranberry bush	C, F
,5	Gerard Christina azalea	F	Viburnum trilobum	Dwarf cranberry bush	C, F
	Girard Roberta azalea	, C, F	compactum	Dwari cranberry busin	О, Г
	Golden flare exbury azalea	F	Viburnum x pragense	Viburnum	C, F
	Helmut vogel azalea	F	Weigela florida	Bristol ruby weigela	-
	Hersey red azalea	F	Weigela honda	Java red weigela	C, F
	Hot shot azalea	, C, F			C, F
	Hume azalea	F	Xylosma congestum	Minuet weigela Xylosma	C, F F
	Inga azalea	F	Yucca filamentosa	Yucca	
	Irene Koster azalea	C, F	rucca mamernosa	Tucca	C, F
	President Clay azalea	C, F			
	Tradition azalea	C, F			
Rhus lancea	Sumac, African	C, F			
	Ramanas rose	C, F			
_	Rosemary	C, F			
	Dusty-miller/silver ragweed	C, F			
	Japanese skimmia	C, F			
	Reeve's skimmia				
Umminia i GVESIANA	i iceve a anii ii ii ii	C, F			

Groundcovers/ Perennials		tainer Grown	Fuchsia x 'Santa Claus' Gaillardia aristata	Santa Claus Fuchsia Blanket flower	C, F C, F
Scientific Name	Common Name	Field Grown	Gaillardia grandiflora	Goblin blanket flower	C, F
Scientific Name	Common Name		Gaura lindheimeri	Gaura	C, F
Achillea millefolium	Common varrous	C =	Gazania rigens	Gazania, trailing	C, F
Agapanthus africanus	Common yarrow Lily of the nile	C, F	leucolaena Cozonia enn	Commis	۰.
Agapanthus "Peter Pan"	-	C, F	Gazania spp.	Gazania	C, F
Alstroemeria aurea		C, F	Geranium incanum	Cranesbill	C, F
Ammophila breviligulata	Peruvian lily Beechgrass	C, F	Geranium	Black eyed magenta cranesbill	C, F
Antirrhinum majus	Snapdragon	C, F C, F	subcaulescens	Calden halisas alda a	
Arctotheca calendula	Cape weed	F	Hakonechloa	Golden hakonechloa	C, F
Argyranthemum	Paris daisy	C, F	macroaureola Hedera canariensis	ha. Almanian	-
frutescens	i ans daisy	0, 1	Hedera helix	Ivy, Algerian	F
Artemisia schmidtiana	Angels' hair	C, F	Helichrysum petiolatum	Ivy, English	C, F
Asparagus retrofractus	Fern	C, F		White licorice plant	C, F
Asteriscus maritimus	Gold coin daisy	C, F	Hemerocallis spp.	Daylily	C, F
Astilbe Deutschland	Deutschland astilbe	C, F	Hesperaloe parviflora Heuchera americana	Red yucca	C, F
Asparagus retrofractus	(No common name)	C, F	Heuchera micrantha	Palace purple	C, F
Asparagus variegata	Tree fern	С, F		Coral bells	C, F
Aster novae-angliae	New England aster	С, F	Hippeastrum hybrid Hosta 'Francee'	Amaryllis	C, F
Aster novi-belgii	New York aster	C, F	Hosta Iancifoila	Francee plantain lily	C, F
Begonia cordifolia	Heartleaf begonia	C, F	Hosta 'Patriot'	Albo-marginata hosta	C, F
Begonia semperflorens	White ambassador begonia	С, Г С, F		Patriot plantain lily	C, F
Bidens ferulifolia	Peter's Gold Bidens	C, F	Hymenoxys acaulis Hypericum spp.	Angelita daisy	C, F
Brachycome x		C, F C, F	**	St. Johnswort	C, F
'New amethyst'	Swan River Daisy New Amethyst	С, Г	Impatiens wallerana Iris pumila	Busy lizzie	C, F
Callistepeus chinensis	China aster	C =	'	Yellow dwarf bearded iris	C, F
Carex spp.	Variegated carex	C, F C, F	Iris siberica	Blue siberian iris	C, F
Carex spp. Carpobrotus edulis	•	F	Jasminum nitidum	Angelwing jasmine	C, F
Catharanthus roseus	lce plant, largeleaf (see label) Madagascar periwinkle	C, F	Lampranthus spectabilis	Trailing iceplant	F
Cerastium tomentosum	Snow in the summer	C, F	Leptospermum	Broom teatree/manuka	C, F
Ceratostigma	Dwarf plumbago	C, F	scoparium	Courtesther	0.5
plumbaginoides	Dwaii piulibago	C, F	Liatris spicata	Gay feather Statice	C, F
Chrysanthemum	Florist's chrysanthemum	C, F	Limonium perezii		C, F
morifolium	i lonst a chi yaanine mum	O, F	Liriope gigantea Liriope muscari	White lily turf	C, F
Chrysanthemum sp.	Chrysanthemum species	C, F	Emope muscan	Lilac beauty lily turf Majestic lily turf	C, F
Clematis integrifolia	Blue bell clematis	C, F		Monroe white lily turf	C, F
caerulea	Dide bell cierricus	0, 1		Silvery sunproof lily turf	C, F C, F
Clivia miniata	Kafir lily	C, F		Variegated liriope lily turf	C, F
Coreopsis verticillata	Coreopsis, threadleaf	C, F		Big blue lily turf	C, F
Cortaderia selloana	Pampas grass	C, F	Liriope spicata	green/creeping lily turf	C, F
Cuphea hyssopifolia	False or Mexican heather	C, F	Lobelia erinus	Lobelia	C, F
Cyperus albostriatus	Dwarf umbrella grass	C, F	Lobularia maritima	Sweet alyssum	C, F
Dahlia x 'Royal	Dwarf dahlia Wendy pink	C, F	Lonicera japonica	Honeysuckle, Japanese	F, F
dahlietta pink'	Divari da ma violay pint	0, 1	Lysimachia punctata	Dotted loosestrife	C, F
Delosperma alba	White iceplant	F	Mathiola incana	Stock	C, F
Descampsia caespitosa	Descampsia	C, F	Miscanthus sinensis	Eulalia grass	C, F
Dianthus	Crimson treasure cheddar pink	C, F	Monarda didyma	Bee balm	C, F
gratianopolitanus	omnoon troubard bring	0, 1	Moraea iridiodes	African iris	C, F
Dietes vegeta	Fortnight lily	C, F	Oenothera speciosa	Siskiyou evening primrose	C, F
Drosanthemum	Trailing rosea iceplant	F.	Ophiopogon japonicus	Dwarf Mondo grass	C, F
floribundum	Training roota toopiant		ортородот јаротово	Mondo grass	C, F
Drosantheumum	Iceplant	C, F	Osteospermum	Freeway daisy	О, F С, F
hispidum	•		fruticosum	1 Iceway daisy	О, Г
Ensete ventricosum	Red abyssinian banana	C, F	Pachysandra terminalis	Japanese spurge	C, F
Equisetum scirpoides	Dwarf horsetail	C, F		Virginia creeper	C, F
Erianthus ravennae	Hardy pampasgrass	C, F	quinguefolia		
Erysimum	Wallflower	C, F	Pelargonium x hortorum	Zonal geranium	C, F
_"Bowles mauve"			Pelargonium peltatum	Ivy geranium	C, F
Euryops pectinatus	Dwarf euryops	C, F	Pennisetum	Fountain grass	C, F
Eustoma grandiflorum	Pink lisianthus	C, F	alopecuroides		
Festuca ovina glauca	Blue fescue	C, F			

Pennisetum setaceum Pentas lanceolata	Chrimson fountaingrass Star cluster	C, F
Penstemon x 'Apple blossom'	Apple blossom penstemon	C, F
Penstemon gentianoides	Hartwig penstemon	C, F
Perovskia atriplicifolia	Russian sage	C, F
Petunia-hybrids	Garden petunias	C, F
Phalaris arundinacea picta	Ribbon grass	C, F
Ratibida columnifera	Mexican hat	C, F
Rudbeckia fulgida	Blackeyed Susan	C, F
Rudbeckia hirta	Blackeyed Susan	C, F
Ruellia brittoniana	Dwarf Katie ruellia	C, F
Salvia grahamii	Graham's sage	C, F
Salvia leucantha	Mexican bush sage	C, F
Sedum x 'Autumn joy'	Autumn joy stonecrop	C, F
Sedum x 'Vera jameson'	Vera jameson stonecrop	C, F
Targetes patula 'Little hero'	Little hero marigold	C, F
Trachelospermum asiaticum	Asian jasmine	C, F
Tulbaghia violacea	Society garlic	C, F
Verbena peruviana	St. Paul verbena	C, F
Vinca major	Periwinkle, bigleaf	C, F
Vinca minor	Periwinkle, dwarf	F
Vinca spp.	Periwinkle	F
Zinnia elegans	Dwarf zinnia	C, F

# **Non-bearing Fruit** and Nut Tree and Non-bearing Vineyards<sup>†</sup>

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

## **Common Name**

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 F
grapefruit	F
kiwi	F
lemon	F
loganberry	F
macadamia nut	F
nectarine	F
olive	F
orange	F
peach	F
pear	F

pecan	F
pistachio	F
plum	F
pomegranate	F
prune	F
raspberry	F
walnut, black	F
walnut, English	F
<sup>†</sup> Non-bearing fruit and nut trees and non-bearing vineyards are o	defined a

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

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.

# Noncropland

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.

The terms of the Warranty Disclaimer and Inherent Risks of Use above and this Limitation of Remedies cannot be varied by any written or verbal statements or agreements. No employee or sales agent of the Seller or the seller is authorized to vary or exceed the terms of the Warranty Disclaimer or this Limitation of Remedies in any manner.

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Dow AgroSciences LLC • Indianapolis, IN 46268 U.S.A.

Label Code: D02-082-016 Replaces Label: D02-082-015

EPA-Accepted 03/20/2002

#### Revisions:

Label Changes by Amendment EPA-accepted June 19, 2000:

- Precautionary Statements: Revised First Aid statement text in accordance with new EPA requirements.
- Directions for Use: (1) Added comment regarding accidental application to turfgrasses adjacent to ornamental plantings.
   (2) Expanded listing of ornamental plant species (39 new tree, shrub and perennial/ground cover species added) in which Snapshot 2.5 TG may be applied at labeled rates.



# **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.

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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**

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**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 Aromatic

Odor
Odor Threshold

No test data available

рН

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 limit Upper explosion limit Not applicable Not applicable

Vapor Pressure

Not applicable

Relative Vapor Density (air = 1)
Relative Density (water = 1)

Not applicable Not applicable

Water solubility

Partition coefficient: n
No test data available

no data available

octanol/water

Auto-ignition temperature $> 537 \, ^{\circ}\text{C} \, (> 999 \, ^{\circ}\text{F})$ Decomposition temperatureNo test data available

Dynamic Viscosity

Kinematic Viscosity

Explosive properties

Oxidizing properties

Liquid Density

Not applicable

no data available

no data available

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.

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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

## <u>Isoxaben</u>

**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

## <u>Isoxaben</u>

**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

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7).

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

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 UN 3077

Class 9
Packing group III

Reportable Quantity Trifluralin

Product name: SNAPSHOT™ 2.5 TG HERBICIDE

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# 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. **CASRN** 

Components

Trifluralin 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**

## NFPΔ

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

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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.