



# RONSTAR® 50 WSP

**Herbicide**

*Specimen Label*

Selective Preemergent Herbicide for the Control of Annual Grasses and Broadleaf Weeds In Turf and Ornamentals

FOR SALE TO, USE AND STORAGE BY COMMERCIAL NURSERY, TURF AND LANDSCAPE PERSONNEL ONLY. NOT FOR USE ON HOME LAWNS.

**ACTIVE INGREDIENT:**

Oxadiazon [2-tert-butyl-4-(2,4-dichloro-5-isopropoxyphenyl)-  
-1, 3, 4-oxadiazolin-5-one] ..... 50.00%

**INERT INGREDIENTS\*\*:** ..... 50.00%

TOTAL ..... 100.00%

**KEEP OUT OF REACH OF CHILDREN**

**WARNING AVISO**

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.)

EPA Reg. No. 432-893

EPA Est. No.

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**IN CASE OF MEDICAL, ENVIRONMENTAL, OR  
TRANSPORTATION EMERGENCIES OR INJURIES,  
CALL 1-800-334-7577 (24 HOURS/DAY).  
For Product Information, Call Toll-Free: 1-800-331-2867**

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by BAYER™**

## 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. Call a poison control center or doctor for treatment advice.

**IF ON SKIN:** 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, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further 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 by a poison control center or doctor.

Have the product container or label with you when calling a poison control center or doctor or going for treatment.

## PRECAUTIONARY STATEMENTS

### WARNING

#### HAZARDS TO HUMANS

Causes substantial but temporary eye injury. Causes skin irritation. Harmful if inhaled or absorbed through skin. Do not get in eyes, on skin or on clothing. Avoid breathing dust.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear coveralls over short-sleeved shirt and short pants, waterproof gloves, a chemical-resistant apron when cleaning equipment, mixing or loading, protective eyewear, chemical resistant headgear for overhead exposure and chemical resistant footwear plus socks. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. 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 STATEMENTS:

When handlers use closed systems, enclosed cabs, or aircraft 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 body thoroughly and put on clean clothing.

## ENVIRONMENTAL HAZARDS

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 contaminate water by cleaning of equipment or disposal of wastes. RONSTAR should not be used in areas where irrigation or rainfall results in the direct or indirect (via ditches and canals) contamination of surface waters through dissolved runoff or erosion of soil particles to which oxadiazon is absorbed.

## DIRECTIONS FOR USE

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

Read entire label before using this product.

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

## AGRICULTURAL USE REQUIREMENTS

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

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

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is coveralls over short-sleeved shirt and short pants, waterproof gloves, protective eyewear, chemical-resistant footwear plus socks and chemical-resistant headgear for overhead exposure.

## STORAGE AND DISPOSAL

**STORAGE:** Do not contaminate water, food or feed by storage or disposal. Do not store in or around the home.

**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, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

## GENERAL INFORMATION

One water soluble packet equals 1 pound of product which is equivalent to 0.5 pounds of active ingredient.

RONSTAR 50 WSP is a selective, preemergent herbicide for control of many annual grasses and broadleaf weeds in turf and on a variety of woody ornamental shrubs and trees. RONSTAR 50 WSP controls weeds by killing the young weed seedlings as they come in contact with the herbicide during germination.

Apply RONSTAR 50 WSP with a properly calibrated sprayer that will apply the spray solution uniformly (uniform application is essential for satisfactory weed control). Calibrate the sprayer prior to use, according to the manufacturer's directions and check daily to be certain that the equipment is working properly.

**GENERAL HANDLING INSTRUCTIONS:** Each RONSTAR 50 WSP water soluble bag comes sealed in a clear plastic outer sleeve. Do not break the seal until the time of use. To use, open the end of the outer sleeve by tearing along the printed solid black line. Do not use a knife or other sharp object to break the seal. Once the outer protective sleeve is open, the water soluble bag inside can be dropped into the spray tank at the appropriate time without touching it.

## HANDLING PRECAUTIONS

- Do not allow the empty outer sleeve or the tear-strip to fall into the spray tank as they are not water soluble and may clog the sprayer.
- Do not handle the inner bag with wet gloves as the bag will begin to dissolve on contact with even a small amount of water.
- Do not open the inner bags or attempt to remove the product from them. The water soluble packet is not designed to be re-measured or subdivided.
- The PVA bag should not be opened and partial bag not used for a tank mix.
- The entire contents of the water soluble bag must be used.

Do not allow domestic animals to graze treated areas. Avoid contamination of water intended for irrigation and domestic use.

## TURF

For use in dormant, established Bermudagrass, St. Augustinegrass and Zoysia turf such as fairways, parks, golf courses and lawns. RONSTAR 50 WSP controls Crabgrass, Goosegrass, Annual Bluegrass, Annual Sedge and Virginia Buttonweed.

RONSTAR 50 WSP should be applied at least 2-3 weeks prior to green up. Rake turf area free of leaves, mowing if necessary so the spray solution reaches the soil surface. Measure the area to be treated and uniformly apply the amount required. If rain is not expected shortly after application, sprinkle the turf thoroughly.

\*Do not use on St. Augustine grass or Zoysia Turf in California.

Hawaii recommendation only: RONSTAR 50 WSP may be applied to newly sprigged Zoysiagrass being grown for sod. Insure the spray reaches the soil surface and if rain is not expected shortly after application, irrigate the turf thoroughly.

### PREEMERGENCE WEED CONTROL

WEEDS CONTROLLED	NUMBER OF RONSTAR 50 WSP PER ACRE	DIRECTIONS
Crabgrass ( <i>Digitaria spp.</i> )	4 - 6	Apply in late winter or early spring prior to weed seed germination and turf greenup. Treatment is effective only against spring germinating Poa annua.
Goosegrass ( <i>Eleusine indica</i> )		
Annual Bluegrass ( <i>Poa annua</i> )*		
Annual Sedge ( <i>Cyperus compressus</i> )*		
Virginia Buttonweed ( <i>Diodia virginiana</i> )	6	Apply in 30 - 150 gallons of water per acre.

\*Not currently registered in California.

### ANNUAL WEED CONTROL DURING BERMUDAGRASS ESTABLISHMENT FROM SPRIGS

WEEDS CONTROLLED	NUMBER OF RONSTAR 50 WSP PER ACRE	DIRECTIONS
Crabgrass, Goosegrass, and Annual Sedge	4 - 6	Make application immediately prior to or immediately after sprigging. Disturbance of the soil surface after RONSTAR 50 WSP application may disrupt the herbicide barrier and reduce effectiveness. Irrigate immediately after application for best results.

Do not apply RONSTAR 50 WSP to newly seeded areas. Seeding into treated areas should be delayed until 4 months after treatment. RONSTAR 50 WSP should not be used on putting greens or tees because of the varying cultural practices used. Apply in 30-150 gallons of water per acre.

\*Not currently registered in California.

## ORNAMENTALS AND CONIFER NURSERIES

**WOODY ORNAMENTAL SHRUBS, TREES, AND CONIFER NURSERY APPLICATION:** Apply RONSTAR 50 WSP prior to weed seed germination, as a directed spray to the soil surface or as an over the top spray only on labeled species. RONSTAR 50 WSP can be applied to both newly transplanted and established plants. Application can be made to actively growing or dormant plants. However, RONSTAR 50 WSP should not be

applied during bud break or during the 4 weeks after bud break.

Rainfall or overhead irrigation (one-half inch) immediately after application of RONSTAR 50 WSP will improve weed control activity. Rainfall or overhead irrigation immediately after over the top sprays is required to move the RONSTAR 50 WSP from the foliage to the soil surface.

RONSTAR 50 WSP should not be mixed into the soil. Cultivating or disturbing the soil may reduce the weed control activity of RONSTAR 50 WSP. Do not apply in greenhouses as plant injury may result from codistillation of RONSTAR active ingredient onto leaf surfaces in condensation.

**AMOUNT TO USE:** Ground Application - Apply RONSTAR 50 WSP broadcast, in a minimum of 50 gallons per acre, to ornamentals at 4 to 8 WS packets per acre, depending on the weeds to be controlled, as listed below. Remove existing weed growth before application.

RONSTAR 50 WSP at 4 to 8 WS packets per acre is effective in controlling annual grasses and broadleaf weeds such as:

### ANNUAL BROADLEAF WEEDS

Bittercress	( <i>Cardamine spp.</i> )
Bristly Oxtongue	( <i>Picris echioides</i> )
Carpetweed	( <i>Mollugo verticillata</i> )
Cheeseweed	( <i>Malva parviflora</i> )
*Common Groundsel	( <i>Senecio vulgaris</i> )
Common Purslane	( <i>Portulaca oleracea</i> )
*Evening Primrose	( <i>Oenothera spp.</i> )
Fiddleneck	( <i>Amsinckia intermedia</i> )
Fireweed	( <i>Epilobium angustifolium</i> )
Florida Pusley	( <i>Richardia scabia</i> )
*Galinsoga	( <i>Galinsoga spp.</i> )
Golden Ragwort	( <i>Senecio aureus</i> )
Lambsquarters	( <i>Chenopodium album</i> )
**Liverwort	( <i>Marchantia spp.</i> )
Oxalis	( <i>Oxalis spp.</i> )
Pennsylvania Smartweed	( <i>Polygonum pennsylvanicum</i> )
Petty Spurge	( <i>Euphorbia pepus</i> )
**Prostrate Spurge	( <i>Euphorbia supina</i> )
Redroot Pigweed	( <i>Amaranthus retroflexus</i> )
Shepherdspurse	( <i>Capsella bursa-pastoris</i> )
Speedwell	( <i>Veronica spp.</i> )
Sow Thistle	( <i>Sonchus oleraceus</i> )
Spotted Catsear	( <i>Hypochaeris radicata</i> )
*Swinecress	( <i>Coronopus didymus</i> )
Yellow Woodsorrel	( <i>Oxalis stricta</i> )

### ANNUAL GRASSES

Annual Bluegrass	( <i>Poa annua</i> )
Annual Sedge	( <i>Cyperus compressus</i> )
*Barnyardgrass	( <i>Echinochloa crus-galli</i> )
Carpetgrass	( <i>Axonopris officinis</i> )
Crabgrass	( <i>Digitaria spp.</i> )
Fall Panicum	( <i>Panicum dichotomiflorum</i> )
**Goosegrass	( <i>Eleusine indica</i> )
Green Foxtail	( <i>Setaria viridis</i> )
Ripgut Bromegrass	( <i>Bromus catharticus</i> )
Wild Oats	( <i>Avena fatua</i> )

\*Use 6 to 8 water soluble packets per acre.

\*\*Use 8 water soluble packets per acre.

**Not currently registered in California for use on Bristly Oxtongue,**

**Cheeseweed, Fiddleneck, Fireweed, Shepardspuse, Sow Thistle, Annual Bluegrass, Annual Sedge, Rippgut Bromegrass and Wild Oats.**

**PLANT TOLERANCE:** RONSTAR 50 WSP can be used as directed spray to the soil surface on a wide variety of container and field grown woody ornamental shrubs and trees and on conifers in nurseries. RONSTAR 50 WSP may be used as an over the top spray in a minimum of 50 gallons per acre, at the recommended rates, on the following ornamental species only.

SPECIES	VARIETIES
Arborvitae	American - Smaragd, Rheingold Giant - Zebrina
Baby's Breath	<i>Gypsophila paniculata</i>
Barberry	Japanese
Boxwood	Dazzler
Cedar	Eastern Red
Cranberry	American
Dodonea	Purpurea
Euonymus Spot	Evergreen - Golden Japanese, Gold
False Cypress	Nootka -Aurea Hinoki - Graciosa, Pygmaea Sawara - Aurea Nana
Fir*	Douglas, Fraser, Grand, Noble
Gladiolus	
Hemlock*	Canada
Holly	Japanese - Helleri Kurogane Chinese - Parsonii
Juniper	Common - Berkshire, Effusa Creeping - Blue Chip, Blue Rug, Andorra Singleseed - Blue Star Savin - Buffalo, Tamariscifolia
Oleander	Common
Ophiopogon	
Pine	Eastern White, Mugho, Scotch
Raphiolepis	
Spruce*	Blue
Statice	<i>Limonium spp.</i>

**\*Not currently registered for use on Fir, Hemlock and Blue Spruce in California.**

Local conditions may affect the use of this chemical. Consult State Agricultural Experiment Station or Extension Service weed specialists for specific recommendations for local weed problems and for information on possible lower dosages.

**LANDSCAPE PLANTINGS:** COMMERCIAL, ROADSIDE, & INDUSTRIAL SITES. Apply RONSTAR 50 WSP prior to weed seed germination as an over the top spray only on labeled ornamentals.

**AMOUNT TO USE:** Apply RONSTAR 50 WSP broadcast, in a minimum of 50 gallons of water per acre, to established ornamentals at 4 WS paks per acre. Remove existing weed growth before application. Do not apply within 60 days of transplanting. Do not apply with adjuvants or drift control agents. Sprinkle irrigate within 2 hours after application, otherwise crop injury may result.

**CROP TOLERANCE:** RONSTAR 50 WSP may be used as an over the top spray on the following ornamental species only.

SPECIES	VARIETIES
Ice Plant	Large Leaf
Ivy	English, Algerian
Daisy	African Trailing
Periwinkle	Major, Minor

**TANK-MIX COMBINATIONS:** Ornamental Plantings and Noncropland areas:

Tank-mix combinations of RONSTAR plus a non-selective herbicide such as Finale are recommended to control existing undesirable vegetation. Applied as a directed spray, RONSTAR plus a non-selective herbicide such as Finale will provide pre and postemergence control of susceptible species listed on the respective labels of the two herbicides.

A Compatibility test must be conducted with any potential tank mix partner with Ronstar WSP herbicide. Using a clear glass quart jar, conduct the test as described below:

1. Fill the jar three-quarters full with water.
2. Add the appropriate amount of herbicide in the following order; (a) dry flowable, (b) wettable powder, (c) aqueous suspensions, (d) flowables, (e) liquids and (f) solutions and emulsifiable or liquid concentrates. Shake or gently stir jar after each addition to thoroughly mix.
3. After adding all ingredients, let the mixture stand for 15 minutes and then look for separation, large flakes, precipitates, gels, and heavy oil film on the jar or other signs of incompatibility.
4. If the compatibility test shows signs of incompatibility, do not tank mix the product tested with Ronstar WSP herbicide.

**MIXING INSTRUCTIONS:** RONSTAR 50 WSP should be added to the tank and agitated prior to introduction of a non-selective herbicide such as Finale. Please refer to the non-selective herbicide label for information on surfactant and spray volume to use. Only mix the amount of spray needed for immediate application needs as settling can occur if spray mixture is allowed to sit over an extended period of time.

**PRECAUTION:** Non-selective herbicides such as FINALE are not recommended as an over the top spray in ornamentals. Extreme care must be exercised to avoid contact of spray containing a non-selective herbicide with foliage, stems, green bark, or bare roots of desirable turfgrasses, trees, shrubs, or other desirable vegetation since severe damage or destruction may result. If spraying areas adjacent to desirable plants with a non-selective herbicide, use a shield made of cardboard, sheet metal, or plywood while spraying to help prevent spray from contacting foliage of desirable plants.

#### BROADCAST APPLICATION RATES:

Existing Annual and Broadleaf Weeds	RONSTAR®/FINALE®	
	RONSTAR® 50 WSP Pounds Per Acre	FINALE® Quarts Per Acre
Less Than 6" Tall	4-8	3
Greater Than 6" Tall	4-8	4
Existing Perennial	4-8	4-6

These rates are intended as general information. Consult rate sections in individual product labels for detailed information on specific weed species controlled and rates of application.

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## 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 should be followed carefully. However, because of manner of use and other factors beyond Bayer Environmental Science's control, it is impossible for Bayer Environmental Science to eliminate all risks associated with the use of this product. As a result, crop injury or ineffectiveness is always possible. All such risks shall be assumed by the user or buyer.

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**Bayer Environmental Science**

A Business Group of Bayer CropScience LP

Bayer Environmental Science  
95 Chestnut Ridge Road  
Montvale, NJ 07645

RONSTAR 50 WSP (MASTER) Approved 12/00

Replace Ron 50 WSP-SL-4/03

Revisions:

1) Layout/look

Ron 50 WSP -SL-0704

## NOTES