

A32-893

09/14/2009

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

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

Mr. Richard M. Gorrel  
Bayer Environmental Science  
2 T. W. Alexander Drive,  
Research Triangle, NC 27709

SEP 4 2009

Subject: Label Notification(s) for Pesticide Registration Notice 2007-4

Dear Registrant:

The Agency is in receipt of your Application(s) for Pesticide Notification under Pesticide Registration Notice (PRN) 2007-4 dated August 7, 2009 for:

**EPA Registration 432-893      Ronstar 50 WSP Herbicide**

The Registration Division (RD) has conducted a review of this request for applicability under PRN 2007-4 and finds that the label change(s) requested falls within the scope of PRN-2007-4. The label has been date-stamped "Notification" and will be placed in our records.

Please be reminded that 40 CFR Part 156.140(a)(4) requires that a batch code, lot number, or other code identifying the batch of the pesticide distributed and sold be placed on nonrefillable containers. The code may appear either on the label (and can be added by non-notification/PR Notice 98-10) or durably marked on the container itself.

If you have any questions, please contact me directly at 703-305-6249 or Banza Djapao of my staff at 703-305-7269.

Sincerely,

A handwritten signature in black ink, appearing to be "Linda Arrington".

Linda Arrington  
Notifications & Minor Formulations Team Leader  
Registration Division (7505P)  
Office of Pesticide Programs

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United States  
Environmental Protection Agency  
Washington, DC 20460

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

OPP Identifier Number

### Application for Pesticide - Section I

1. Company/Product Number 432-893	2. EPA Product Manager Ms. Joanne Miller	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Ronstar 50 WSP Herbicide	PM# 23	
5. Name and Address of Applicant (Include ZIP Code) Bayer Environmental Science 2 T. W. Alexander Drive Research Triangle Park, NC 27709 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

### Section - II

<input checked="" type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____	<b>NOTIFICATION</b>  SEP - 4 2009
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.	
<input type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.	

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

Notification of label change per PR Notice 2007-4. This notification is consistent with the guidance of PR Notice 2007-4 and the requirements of EPA's regulations at 40 CFR 156.10, 156.140, 156.144, 156.146, and 156.156. No other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if the amended label is not consistent with the requirements of 40 CFR 156.10, 156.140, 156.144, 156.146, and 156.156, this product may be in violation of FIFRA and it may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.  
- Container Disposal Statement Revision as per EPA mandate

### Section - III

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

### Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Richard M. Gorrell	Title Manager, Registrations	Telephone No. (Include Area Code) (919) 549-2423
<b>Certification</b> I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received <b>(Stamped)</b>
2. Signature <i>Richard M. Gorrell</i>	3. Title Manager, Registrations	
4. Typed Name Richard M. Gorrell	5. Date August 7, 2009	



# Bayer Environmental Science

August 7, 2009

EPA09RMG0807Ronstar50WSPNotifContDisp  
Fedex

Ms. Linda Arrington  
U.S. Environmental Protection Agency  
Office of Pesticide Programs (7504P)  
Document Processing Desk (Notif)  
Room S-4900, One Potmac Yard  
2777 South Crystal Drive  
Arlington, VA 22202-4501

RE: Ronstar 50 WSP Herbicide (EPA Reg No. 432-893) Notification to  
Add Container Disposal Statement

Dear Ms. Arrington:

Bayer Environmental Science (BES) is notifying the Agency of the addition of a revised container disposal statement for the Ronstar 50 WSP Herbicide label. The label language is exactly as prescribed by the Agency in PR Notice 2007-4.

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

The following information is included with this amendment:

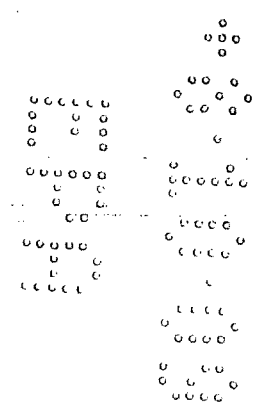
- 8570-1 form
- Revised Label (4 paper copies; one highlighted copy)

If you have any questions, contact me at (919) 549-2423 or email me at [mike.gorrell@bayercropscience.com](mailto:mike.gorrell@bayercropscience.com).

Sincerely,

Richard M. Gorrell  
Manager, Registrations

Cc: Karen Shearer



# RONSTAR® 50 WSP Herbicide

**Preemergence Herbicide for the Control of Annual Grasses and Broadleaf Weeds In Turf and Ornamentals Including Landscape Ornamental Beds on Residential Properties by a Professional Applicator.**

**For sale to and use by Professional Applicators only. Not for sale to or use by homeowners/consumers. Not for Use in Turfgrass on Residential Properties.**

**ACTIVE INGREDIENT:**

Oxadiazon 3-[2,4-dichloro-5-(1-methylethoxy)phenyl]-5-(1,1-dimethylethyl)-1,3,4-oxadiazol-2(3H)-one..... 50%

**INERT INGREDIENTS:**

50%

EPA Reg. No. 432-893

EPA Est.

## KEEP OUT OF REACH OF CHILDREN WARNING AVISO

**NOTIFICATION**

SEP - 4 2009

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.)

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

### FIRST AID

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

Note to Physician: There is no specific antidote. Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended.  
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 AND DOMESTIC ANIMALS

Causes skin irritation. Harmful absorbed through skin. Harmful if inhaled. Causes moderate eye injury. Do not get on skin or on clothing. Avoid breathing dust. Avoid contact with eyes.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are made of any waterproof material. If you want more options, follow the instructions for category A on a chemical-resistance category selection chart.

Mixers and loaders must wear:

- Long-sleeved shirt and long pants,
- shoes plus socks,
- chemical resistant gloves, and
- A chemical resistant apron.

All others must wear:

- Coveralls over short sleeved shirt and short pants,
- Socks and chemical resistant footwear,
- Chemical-resistant headgear for overhead exposure and
- Chemical-resistant gloves.

See engineering controls for additional requirements.

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 exist, 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.

Water-soluble packets when used correctly qualify as a closed mixing/loading system under the Worker Protection Standard for Agricultural Pesticides [40 CFR 170.240 (d) (4)]. Mixers and loaders using water-soluble packets must: wear the personal protective equipment required above for mixers and loaders, and be provided and have immediately available for use in an emergency, such as a broken package, spill, or equipment breakdown; chemical-resistant footwear and a NIOSH-approved dust mist filtering respirator with MSHA/NIOSH approval number prefix TC-21C or a NIOSH-approved respirator with any N, R, P, or HE filter.

**User Safety Recommendations**

- Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into 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® 50 WSP Herbicide 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.

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollution Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

**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.

Not for use on home lawns.

### 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, shoes plus socks, and chemical-resistant gloves made of any waterproof material.

### NON AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are not within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses. Do not allow others to enter the treated area until sprays have dried.

### STORAGE AND DISPOSAL

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

#### PESTICIDE STORAGE

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

Non-refillable container. Do not reuse or refill this container. Offer for recycling, if available. Empty contents of the plastic lined paper bag into application equipment as directed in label instructions. Dispose of empty plastic lined paper bag in a sanitary landfill. Then dispose of empty box 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 Herbicide is a preemergent herbicide for control of annual grasses and broadleaf weeds in turf and on a variety of woody ornamental shrubs and trees. RONSTAR® 50 WSP Herbicide controls weeds by killing the weed seedlings as they come in contact with the herbicide during germination.

Apply RONSTAR® 50 WSP Herbicide 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:** Two 1 pound RONSTAR® 50 WSP Herbicide water-soluble packages come sealed in a plastic lined paper bag. Do not break the seal until the time of use.

Do not use a knife or other sharp object to break the seal. Once the plastic lined paper bag is open, the water-soluble packets inside can be dropped into the spray tank at the appropriate time without touching them.

### USE PRECAUTIONS AND RESTRICTIONS

- Do not allow the empty bag 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 water soluble package with wet gloves, as the package will begin to dissolve on contact with even a small amount of water.
- Do not open the inner water soluble packages or attempt to remove the product from them. The water-soluble package is not designed to be re-measured or subdivided.
- Do not open the PVA bag.
- The entire contents of the water-soluble package must be used.

- Do not allow domestic animals to graze treated areas. Do not contaminate water intended for irrigation and domestic use.
- Do not apply more than 12 pounds of product per acre per year (6 pounds of active ingredient per acre per year), except in areas where there is heavy weed infestation. In areas of heavy infestation, apply no more than 16 pounds of product per acre per year (8 pounds of active ingredient per acre per year).
- Do not apply more than 8 pounds of product per acre per application (4 pounds of active ingredient per acre per application).

**TURF**

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

RONSTAR® 50 WSP Herbicide 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 apply the amount required. If rain is not expected within 4 hours after application, irrigate the turf thoroughly.

**\* DO NOT USE ON ST. AUGUSTINE GRASS OR ZOYSIA TURF IN CALIFORNIA.**

**Hawaii use only:** RONSTAR® 50 WSP Herbicide may be applied too 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 WS PACKETS PER ACRE	WHEN TO APPLY
Crabgrass ( <i>Digitaria spp.</i> ) Goosegrass ( <i>Eleusine indica</i> ) Annual Bluegrass ( <i>Poa annua</i> )* Annual Sedge ( <i>Cyperus compressus</i> )*	4-8 in 30 - 150 gallons of water; Use the higher rate with expected heavier weed pressure	Apply in late winter or early spring prior to weed seed germination and turf greenup. For best results, irrigate immediately after application. The maximum number of applications that may be made per year is two. The maximum single application rate is 4 lbs. a.i./acre. A subsequent application can be made 4 months after the previous treatment. Treatment is effective only against spring germinating <i>Poa annua</i> . RONSTAR® 50 WSP Herbicide does not control <i>Poa annua</i> that has germinated prior to the application
Virginia Buttonweed ( <i>Diodia virginiana</i> )	6-8 in 30-150 gallons of water; Use the higher rate with expected heavier weed pressure	

**\*Do not use in California for the control of these weeds.**

**ANNUAL WEED CONTROL DURING BERMUDAGRASS ESTABLISHMENT FROM SPRIGS\***

WEEDS CONTROLLED	NUMBER OF RONSTAR® 50 WS PACKETS PER ACRE	WHEN TO APPLY
Crabgrass, Goosegrass, and Annual Sedge	4-8 in 30 - 150 gallons of water; Use the higher rate with expected heavier weed pressure	Make application immediately prior to or immediately after sprigging. Disturbance of the soil surface after applying RONSTAR® 50 WSP Herbicide may disrupt the herbicide barrier and reduce effectiveness. For best results, irrigate immediately after application. The maximum number of applications that may be made per year is two. The maximum single application rate is 4 lbs. a.i./acre. A subsequent application can be made 4 months after the previous treatment. To avoid injury to the actively growing turfgrass, irrigate immediately after application.

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

The maximum application rate allowed per year is 12 pounds of product per acre per year (equivalent to 6 pounds a.i./A/year), except in areas where there is heavy weed infestation.

In areas of heavy weed infestation, the maximum application rate is 16 pounds of product per acre per year (equivalent to 8 pounds a.i./A/year).

For best results, water-in product as soon as practical after application.

**\*Do not use in California for annual weed control during Bermudagrass establishment from sprigs.**

**WOODY ORNAMENTAL SHRUBS AND TREES, CONIFER NURSERIES, AND ORNAMENTALS ON RESIDENTIAL PROPERTIES**

**GENERAL USE INSTRUCTIONS:** Must be applied by Professional Applicators only. Apply RONSTAR® 50 WSP Herbicide prior to weed seed germination as a directed spray to the soil surface or as an over-the-top application on tolerant ornamentals used as ground cover listed on this label. RONSTAR 50 WSP Herbicide can be applied to both newly transplanted and established plants. Application can be made to actively growing or dormant plants. However, apply RONSTAR 50 WSP Herbicide prior to bud break or not until 4 weeks after bud break. Rainfall or irrigation (one-half inch) immediately after application of RONSTAR 50 WSP Herbicide will improve weed control and move RONSTAR 50 WSP Herbicide into the upper soil profile. Cultivating or disturbing the soil after application may reduce weed control by disrupting the herbicide barrier.

**AMOUNT TO USE:** Apply RONSTAR® 50 WSP Herbicide broadcast, in a minimum of 50 gallons of water per acre (1.14 gallons of water per 1000 sq ft). Remove existing weeds before application. Apply a maximum of 8 WS packets per acre or 4 lbs. a.i./acre as a single application. The maximum number of applications that may be made per year is two. The maximum single application rate is 4 lbs. a.i./acre. A subsequent application can be made 4 months after previous treatment. For over-the-top sprays, irrigate within 2 hours after application, otherwise injury to the ornamentals may result.

**ORNAMENTALS IN RESIDENTIAL PROPERTIES:** RONSTAR 50 WSP Herbicide may be applied to landscape beds consisting of well defined areas of solid or mixed stands of trees, shrubs, and ground covers located around buildings as well as in open areas of the residential property. When using Low Pressure Handwand Applicators, Professional Applicators are to use only the 1.5 oz. RONSTAR 50 WSP Herbicide packets. Carefully measure the area of each bed to be treated to insure an accurate application rate.

**Restrictions:**

- Do not apply in greenhouses as plant injury may result from co-distillation of RONSTAR 50 WSP Herbicide active ingredient onto leaf surfaces in condensate.
- Do not mechanically mix RONSTAR 50 WSP Herbicide into the soil.
- Do not permit people or pets to enter the treated area until after the directed spray application of Ronstar 50 WSP Herbicide is watered in and the soil surface is dry.
- Do not apply with adjuvants or drift control agents.
- Do not apply more than 12 pounds of product per acre per year (6 pounds of active ingredient per acre per year), except in areas where there is heavy weed infestation. In areas of heavy infestation, apply no more than 16 pounds of product per acre per year (8 pounds of active ingredient per acre per year).
- Do not apply more than 8 pounds of product per acre per application (4 pounds of active ingredient per acre per application).



## WOODY ORNAMENTAL SHRUBS AND TREES, CONIFER NURSERIES, AND ORNAMENTALS ON COMMERCIAL PROPERTIES, ROADSIDES, INDUSTRIAL SITES, PUBLIC PARKS AND RECREATIONAL AREAS

**LANDSCAPE PLANTINGS:** Apply RONSTAR® 50 WSP Herbicide prior to weed seed germination as an over-the-top spray or directed spray application to landscape plantings of ornamentals along public and private roadsides and rights-of-way, on commercial properties, recreational parks, railroad rights-of-way, railroad yards, and on federal, state, and local parks and recreational areas. Remove existing weeds before applying this product. Apply RONSTAR® 50 WSP Herbicide to established ornamentals prior to bud break or not until 4 weeks after bud break.

Rainfall or irrigation (one-half inch) immediately after application of RONSTAR® 50 WSP Herbicide will improve weed control and move Ronstar® 50 WSP Herbicide into the upper soil profile. Sprinkle irrigate the foliage within 2 hours after application, otherwise crop injury may result. Cultivating or disturbing the soil after application may reduce weed control by disrupting the herbicide barrier.

**AMOUNT TO USE:** Apply RONSTAR® 50 WSP HERBICIDE broadcast, in a minimum of 50 gallons of water per acre (1.14 gallons of water per 1000 sq ft), to established ornamentals at 4-8 WS packets per acre as a single over-the-top spray application or as a single directed spray application to the soil. The maximum amount allowed per year is 12 pounds of product per acre (equivalent to 6 pounds active ingredient per acre per year) except in areas of heavy weed infestation where the maximum amount allowed per year is 16 pounds of product per acre (equivalent to 8 pounds active ingredient per acre per year). The maximum number of applications that may be made per year is two. The maximum single application rate is 4 lbs. a.i. acre. A subsequent application can be made 4 months after the previous treatment.

### Restrictions:

- Do not apply in greenhouses as plant injury may result from co-distillation of Ronstar active ingredient onto leaf surfaces in condensate.
- Do not mechanically mix RONSTAR 50 WSP HERBICIDE into the soil.
- Do not apply with adjuvants or drift control agents.
- Do not apply more than 12 pounds of product per acre per year (6 pounds of active ingredient per acre per year), except in areas where there is heavy weed infestation. In areas of heavy infestation, apply no more than 16 pounds of product per acre per year (8 pounds of active ingredient per acre per year).
- Do not apply more than 8 pounds of product per acre per application (4 pounds of active ingredient per acre per application).

RONSTAR® 50 WSP Herbicide controls the following annual grasses and broadleaf weeds at 4-8 WS Packets per acre:

ANNUAL BROADLEAF WEEDS		ANNUAL GRASSES	
Bittercress	( <i>Cardamine sp</i> )	Annual Bluegrass†	( <i>Poa annua</i> )
Bristly Oxtongue†	( <i>Picris echioides</i> )	Annual Sedge†	( <i>Cyperus compressus</i> )
Carpetweed	( <i>Mollugo verticillata</i> )	*Barnyardgrass	( <i>Echinochloa crus-galli</i> )
Cheeseweed†	( <i>Malva parviflora</i> )	Carpetgrass	( <i>Axonopris officinis</i> )
*Common Groundsel	( <i>Senecio vulgaris</i> )	Crabgrass	( <i>Digitaria sp</i> )
Common Purslane	( <i>Portulaca oleracea</i> )	Fall Panicum	( <i>Panicum dichotomiflorum</i> )
*Evening Primrose	( <i>Oenothera sp</i> )	**Goosegrass	( <i>Eleusine indica</i> )
Fiddleneck†	( <i>Amsinckia intermedia</i> )	Green Foxtail	( <i>Setaria viridis</i> )
Fireweed†	( <i>Epilobium angustifolium</i> )	Ripgut Bromegrass†	( <i>Bromus catharticus</i> )
Florida Pusley	( <i>Richardia scabia</i> )	Wild Oats†	( <i>Avena fatua</i> )
*Galinsoga	( <i>Galinsoga sp</i> )		
Golden Ragwort	( <i>Senecio aureus</i> )		
Lambsquarters	( <i>Chenopodium album</i> )		
**Liverwort	( <i>Marchantia sp</i> )		
Oxalis	( <i>Oxalis sp</i> )		
Pennsylvania Smartweed	( <i>Polygonum pensylvanicum</i> )		
Petty Spurge	( <i>Euphorbia peplus</i> )		
**Prostrate Spurge	( <i>Euphorbia supina</i> )		
Redroot Pigweed	( <i>Amaranthus retroflexus</i> )		
Shepherdspurse†	( <i>Capsella bursa-pastoris</i> )		
Speedwell	( <i>Veronica sp</i> )		
Sow Thistle†	( <i>Sonchus oleraceus</i> )		
Spotted Catsear	( <i>Hypochaeris radicata</i> )		
*Swinecress	( <i>Coronopus didymus</i> )		
Yellow Woodsorrel	( <i>Oxalis stricta</i> )		

\*Apply 6 to 8 water-soluble packets per acre (equivalent to 3-4 lbs a.i./acre). Apply the higher rate with expected heavier weed infestations.

\*\*Apply 8 water-soluble packets per acre.

† Do not use in California for control of Bristly Oxtongue, Cheeseweed, Fiddleneck, Fireweed, Shepherdspurse, Sow Thistle, Annual Bluegrass, Annual Sedge, Ripgut Bromegrass, and Wild Oats.

**PLANT TOLERANCE:** RONSTAR® 50 WSP Herbicide can be used as a directed or over the top spray application in a minimum of 50 gallons of water per acre on the following ornamental species:

<b>SPECIES</b>	<b>VARIETIES</b>
Arborvitae	American - Smaragd, Rheingold Giant - Zebrina
Baby's Breath	<i>Gypsophila paniculata</i>
Barberry	Japanese
Boxwood	Dazzler
Cedar	Eastern Red
Cranberry	American
Daisy**	African Trailing
Dodonaea	Purpurea
Euonymus	Evergreen - Golden Japanese, Gold Spot
False Cypress	Nootka -Aurea Hinoki - Graciosa, Pygmaea Sawara - Aurea Nana
Fir*	Douglas, Fraser, Grand, Noble
Gladiolas	
Hemlock*	Canada
Holly	Japanese - Helli Kurogane Chinese - Parsonii
Ice Plant**	Large Leaf
Ivy**	English, Algerian
Juniper	Common - Berkshire, Effusa Creeping - Blue Chip, Blue Rug, Andorra Singleseed - Blue Star Savin - Buffalo, Tamariscifolia
Oleander	Common
Ophiopogon	
Periwinkle**	Major, Minor
Pine	Eastern White, Mugho, Scotch
Raphiolepis	
Spruce*	Blue
Statice	<i>Limonium sp</i>

Consult State Agricultural Experiment Station or Extension Service weed specialists for specific recommendations for local weed problems and for information on possible lower dosages.

**\* Do not use in California on Fir, Hemlock, and Blue Spruce.**

**\*\* Use a maximum of 4 WS packets per acre on Daisy, Ice Plant, Ivy, and Periwinkle.**

**TANK-MIX COMBINATIONS:** Tank-mix combinations of RONSTAR® 50 WSP Herbicide plus a postemergence herbicide are recommended to control existing undesirable vegetation along public and private roadsides and rights-of-way, on commercial properties recreational parks, railroad rights-of-way, railroad yards, and on federal, state, and local parks and recreational areas.

Applied as a directed spray, RONSTAR® 50 WSP Herbicide plus a postemergence herbicide will provide preemergence and postemergence control of susceptible species listed the respective labels.

A compatibility test must be conducted with the tank-mix partner with Ronstar® 50 WSP Herbicide as a mixture. 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 herbicides 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 oily film on the jar or other signs of incompatibility.
4. If the compatibility test shows signs of incompatibility, do not tank-mix the product(s) tested with Ronstar® 50 WSP Herbicide.

**MIXING INSTRUCTIONS:** Add RONSTAR® 50 WSP Herbicide to the spray tank solution and agitate prior to adding a tank-mix partner. Please refer to the tank-mix partner label for information on surfactant and spray volume to use. Mix the exact amount of spray needed for immediate application. Do not leave excess spray solution in the spray tank for an extended period of time as the tank-mix partners may settle out of solution.

**PRECAUTIONS AND RESTRICTIONS:** Do not use tank-mix herbicide partners as an over-the-top spray in ornamentals without first consulting the tank-mix partner's label for tolerant or susceptible ornamental varieties. To prevent injury to susceptible and desirable turfgrasses, trees, shrubs, or other desirable plants, avoid contact of the spray solution with foliage, stems, green bark, or bare roots of these plants as severe plant injury may occur. If needed, equip the sprayer with a spray shield to help prevent the spray solution from contacting non-targeted plants. Apply the tank-mix partner as described on the label of the product.

**BROADCAST APPLICATION RATES WITH TANK-MIXTURES OF FINALE HERBICIDE:**

**RONSTAR® 50 WSP Herbicide /FINALE®\***

WHEN TO APPLY Type and Growth Stage of Existing Weeds	RONSTAR® 50 WSP Herbicide	FINALE®
	Number of WS Packets Per Acre	Quarts Per Acre
Annuals Less Than 6" Tall	4 – 8	3
Annuals Greater Than 6" Tall	4 – 8	4
Existing Perennial (any size)	4 – 8	4 – 6

\*Apply Ronstar 50 WSP Herbicide and Finale herbicides as described on the respective labels. Follow the most restrictive label language.

**IMPORTANT: READ BEFORE USE**

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

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

**CONDITIONS:** The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Bayer CropScience LP. All such risks shall be assumed by the user or buyer.

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**NET CONTENTS: 1 pound packet**

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Produced for



**Bayer Environmental Science**

A Business Group of Bayer CropScience LP  
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Research Triangle Park, North Carolina 27709

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