

# CHIPCO® RONSTAR® 50 WP Herbicide

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)-Δ-1, 3, 4-oxadiazolin-5-one)..... 50%

**INERT INGREDIENTS:**..... 50%

EPA Reg. No. 264-472

EPA Est.

## KEEP OUT OF REACH OF CHILDREN WARNING

For **MEDICAL** and **TRANSPORTATION** Emergencies **ONLY** Call 24 Hours A Day 1-800-334-7577  
For **PRODUCT USE** Information Call 1-800-334-9745

### STATEMENT OF PRACTICAL TREATMENT

**IF SWALLOWED:** Drink promptly a large quantity of milk, egg whites, gelatin solution or if these are not available, drink large quantities of water. Avoid alcohol. Get medical attention.

**IF ON SKIN:** Wash with plenty of soap and water. Get medical attention if irritation persists.

**IF IN EYES:** Flush with plenty of water. Get medical attention if irritation persists.

05 APR 1993

Under the Federal Insecticide, Fungicide, and Rodenticide Act

264-472

### PRECAUTIONARY STATEMENTS

#### WARNING

#### HAZARDS TO HUMANS

Harmful if inhaled or absorbed through skin. Avoid contact with skin, eyes or clothing. Avoid breathing dust. Causes substantial but temporary eye injury. Wear protective clothing including long sleeved shirt, gloves and goggles or face shield when handling material. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

#### ENVIRONMENTAL HAZARDS

Do not apply directly to water. 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 adsorbed.

### 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.

### 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

CHIPCO® RONSTAR® 50 WP 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. CHIPCO® RONSTAR® 50 WP controls weeds by killing the young weed seedlings as they come in contact with the herbicide during germination.

Apply CHIPCO® RONSTAR® 50 WP 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.

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

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## TURF

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

CHIPCO® RONSTAR® 50 WP 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.

### PREEMERGENCE WEED CONTROL

WEEDS CONTROLLED	AMOUNT OF CHIPCO® RONSTAR® 50 WP		DIRECTIONS
	PER ACRE	PER 1000 SQ. FT.	
Crabgrass ( <i>Digitaria</i> spp.) Goosegrass ( <i>Elyusine indica</i> ) Annual Bluegrass ( <i>Poa annua</i> ) Annual Sedge ( <i>Cyperus compressus</i> )	4 - 6 lbs.	1.5 - 2.2 ounces	Apply in late winter or early spring prior to weed seed germination and turf greenup. Treatment is effective only against spring germinating <i>Poa annua</i> . Apply in 30 - 150 gallons of water per acre or 0.75 - 3.5 gallons of water per 1000 sq. ft.
Virginia Buttonweed ( <i>Diodia virginiana</i> )	6 lbs.	2.2 ounces	

### ANNUAL WEED CONTROL DURING BERMUDAGRASS ESTABLISHMENT FROM SPRIGS.

WEEDS CONTROLLED	AMOUNT OF CHIPCO® RONSTAR® 50 WP		DIRECTIONS
	PER ACRE	PER 1000 SQ. FT.	
Crabgrass, Goosegrass, and Annual Sedge	4 - 6 lbs.	1.5 - 2.2 ounces	Make application immediately prior to or immediately after sprigging. Disturbance of the soil surface after CHIPCO® RONSTAR® 50 WP application may disrupt the herbicide barrier and reduce effectiveness. Irrigate immediately after application for best results.

Do not apply RONSTAR® 50 WP to newly seeded areas. Seeding into treated areas should be delayed until 4 months after treatment. RONSTAR® 50 WP should not be used on putting greens or tees because of the varying cultural practices used.

## ORNAMENTALS AND CONIFER NURSERIES

**WOODY ORNAMENTAL SHRUBS, TREES, AND CONIFER NURSERY APPLICATION:** Apply CHIPCO® RONSTAR® 50 WP prior to weed seed germination, as a directed spray to the soil surface or as an over the top spray only on labeled species. CHIPCO® RONSTAR® 50 WP can be applied to both newly transplanted and established plants. Application can be made to actively growing or dormant plants. However, CHIPCO® RONSTAR® 50 WP 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 CHIPCO® RONSTAR® 50 WP will improve weed control activity. Rainfall or overhead irrigation immediately after over the top sprays is required to move the CHIPCO® RONSTAR® 50 WP from the foliage to the soil surface.

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

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

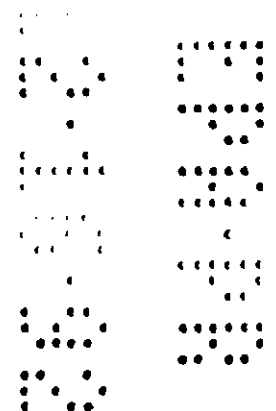
CHIPCO® RONSTAR® 50 WP at 4 to 8 pounds per acre is effective in controlling annual grasses and broadleaf weeds such as:

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ANNUAL BROADLEAF WEEDS		ANNUAL GRASSES	
Bittercress	( <i>Cardamine</i> spp.)	Annual Bluegrass	( <i>Poa annua</i> )
Bristly Ox Tongue	( <i>Picris echioides</i> )	Annual Sedge	( <i>Cyperus compressus</i> )
Carpetweed	( <i>Mollugo verticillata</i> )	*Barnyardgrass	( <i>Echinochloa crus-galli</i> )
Cheeseweed	( <i>Makva parviflora</i> )	Carpentergrass	( <i>Axonopus officinis</i> )
*Common Groundsel	( <i>Senecio vulgaris</i> )	Crabgrass	( <i>Digitaria</i> spp.)
Common Purslane	( <i>Portulaca oleracea</i> )	Fall Panicum	( <i>Panicum dichotomiflorum</i> )
*Evening Primrose	( <i>Oenothera</i> spp.)	**Coosugrass	( <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 scabra</i> )	Wild Oats	( <i>Avena fatua</i> )
*Galinsoga	( <i>Galinsoga</i> spp.)		
Golden Ragwort	( <i>Senecio aureus</i> )		
Lambequarters	( <i>Chenopodium album</i> )		
**Liverwort	( <i>Marchantia</i> spp.)		
Oxalis	( <i>Oxalis</i> spp.)		
Pennsylvania Smartweed	( <i>Polygonum pennsylvanicum</i> )		
Petty Spurge	( <i>Euphorbia populus</i> )		
**Prostrate Spurge	( <i>Euphorbia supina</i> )		
Redroot Pigweed	( <i>Amaranthus retroflexus</i> )		
Shepherdspurse	( <i>Capsella bursa-pastoris</i> )		
Speedwell	( <i>Veronica</i> spp.)		
Sow Thistle	( <i>Sonchus oleraceus</i> )		
Spotted Catsear	( <i>Hypochaeris radicata</i> )		
*Swinecress	( <i>Coronopus didymus</i> )		
Yellow Woodsorrel	( <i>Oxalis stricta</i> )		

\*Use 6 to 8 pounds of product per acre.

\*\*Use 8 pounds product per acre.



**CROP TOLERANCE:** CHIPCO® RONSTAR® 50 WP 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. CHIPCO® RONSTAR® 50 WP 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 - Zelvina
Barberry	Japanese
Boxwood	Dazzler
Cedar	Eastern Red
Cranberry	American
Dodonea	Purpurea
Euonymus	Evergreen - Golden Japanese, Gold Spot
False Cypress	Nootka - Aurea Hinoki - Graciosa, Pygmaea Sawara - Aurea Nana
Fir	Douglas, Fraser, Grand, Noble
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

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 CHIPCO® RONSTAR® 50 WP prior to weed seed germination as an over the top spray only on labelled ornamentals.

**AMOUNT TO USE:** Apply CHIPCO® RONSTAR® 50 WP broadcast, in a minimum of 50 gallons of water per acre, to established ornamentals at 4 pounds of product 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:** CHIPCO® RONSTAR® 50 WP 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 CHIPCO® RONSTAR®/Roundup® are recommended to control existing undesirable vegetation. Applied as a directed spray, CHIPCO® RONSTAR® plus Roundup will provide pre and postemergence control of susceptible species listed on the respective labels of the two herbicides.

**MIXING INSTRUCTIONS:** CHIPCO® RONSTAR® 50 WP should be added to the tank and agitated prior to introduction of Roundup. Please refer to Roundup label for information on surfactant use. Only mix the amount of spray needed immediate application needs as settling can occur if spray mixture is allowed to sit over an extended period of time.

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**PRECAUTION:** Roundup is not recommended as an over the top spray in ornamentals. Extreme care must be exercised to avoid contact of spray containing Roundup 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 Roundup, use a shield made of cardboard, sheet metal, or plyboard while spraying to help prevent spray from contacting foliage of desirable plants.

**BROADCAST APPLICATION RATES:**

**CHIPCO® RONSTAR®/ROUNDUP**

Existing Annual and Broadleaf Weeds	CHIPCO® RONSTAR® 50 WP		ROUNDUP	
	Ounces Per 1000 Sq. Ft.	Pounds Per Acre	Ounces Per 1000 Sq. Ft.	Quarts Per Acre
Less Than 6" Tall	1.5-3	4-8	3/4	1
Greater Than 6" Tall	1.5-3	4-8	1 1/8	1 1/2
Existing Perennial	1.5-3	4-8	1 1/2-3	2-5

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.

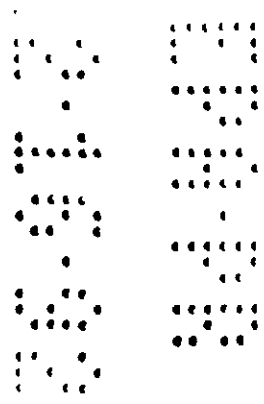
**LIMITED WARRANTY AND DISCLAIMER**

The manufacturer warrants that this product conforms to the chemical description on the label; that this product is reasonably fit for the purposes set forth in the directions for use when it is used in accordance with such directions; and that the directions, warnings and other statements on this label are based upon responsible experts' evaluation of reasonable tests of effectiveness, of toxicity to laboratory animals and to plants, and of residues, and upon reports of field experience. Tests have not been made on all varieties or in all states or under all conditions. THE MANUFACTURER NEITHER MAKES NOR INTENDS, NOR DOES IT AUTHORIZE ANY AGENT OR REPRESENTATIVE TO MAKE, ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, AND IT EXPRESSLY EXCLUDES AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

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\*Roundup is a registered trademark of Monsanto Agricultural Company.



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