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Ranger Herbicide Label Changes

1. Add:

Orchardgrass 4 to 12" 3 pts.

Dactylis glomerata

2. Move "Storage and Disposal" instructions to
"Directions For Use"

ACCEPTED
OCT 31 1938
Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under
EPA Reg. No. 526-382

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RANGER



Herbicide

For control of quackgrass and listed weeds in annual cropping systems, pastures and sods in New York, Pennsylvania, and Vermont.

AVOID CONTACT WITH FOLIAGE OF CROP OR OTHER DESIRABLE VEGETATION. SINCE SEVERE INJURY OR DESTRUCTION MAY RESULT.

EPA Reg No 524-382

Complete Directions for Use

RANGER is a registered trademark of Monsanto Company

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Read the entire label before using this product

Use only according to label instructions.

Read "LIMIT OF WARRANTY AND LIABILITY" before buying or using. If terms are not acceptable, return at once unopened.

REFORMULATION OR REPACKAGING IS PROHIBITED

LIMIT OF WARRANTY AND LIABILITY

This Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes set forth in the Complete Directions for Use label booklet ("Directions") when used in accordance with those Directions under the conditions described therein. NO OTHER EXPRESS WARRANTY OR IMPLIED WARRANTY OF FITNESS FOR PARTICULAR PURPOSE OR MERCHANTABILITY IS MADE. This warranty is also subject to the conditions and limitations stated herein.

Buyer and all users shall promptly notify this Company of any claims whether based in contract, negligence, strict liability, other tort or otherwise.

Buyer and all users are responsible for all loss or damage from use or handling which results from conditions beyond the control of this Company, including, but not limited to, incompatibility with products other than those set forth in the Directions, application to or contact with desirable vegetation, unusual weather weather conditions which are outside the range considered normal at the application site and for the time period when the product is applied, as well as weather conditions which are outside the application ranges set forth in the Directions, application in any manner not explicitly set forth in the Directions, moisture conditions outside the moisture range specified in the Directions, or the presence of products other than those set forth in the Directions in or on the soil, crop or treated vegetation.

THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE LIMIT OF THE LIABILITY OF THIS COMPANY OR ANY OTHER SELLER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT (INCLUDING CLAIMS BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY OTHER TORT OR OTHERWISE) SHALL BE THE PURCHASE PRICE PAID BY THE USER OR BUYER FOR THE QUANTITY OF THIS PRODUCT INVOLVED OR, AT THE ELECTION OF THIS COMPANY OR ANY OTHER SELLER, THE REPLACEMENT OF SUCH QUANTITY OR, IF NOT ACQUIRED BY PURCHASE, REPLACEMENT OF SUCH QUANTITY IN NO EVENT SHALL THIS COMPANY OR ANY OTHER SELLER BE LIABLE FOR ANY INCIDENTAL CONSEQUENTIAL OR SPECIAL DAMAGES.

Buyer and all users are deemed to have accepted the terms of this LIMIT OF WARRANTY AND LIABILITY which may not be varied by any verbal or written agreement.

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

Keep out of reach of children

DANGER!

CAUSES EYE BURNS

HARMFUL IF SWALLOWED OR INHALED

Do not get in eyes on skin or on clothing

Wear goggles or face shield and rubber gloves in transferring and mixing and in adjusting, repairing or cleaning equipment.

Avoid breathing vapor or spray mist.

Wash thoroughly with soap and water after handling.

FIRST AID: IF IN EYES Immediately flush with plenty of water for at least 15 minutes. Call a physician.

IF INHALED, remove individual to fresh air. Seek medical attention if breathing difficulty develops.

IF SWALLOWED this product will cause gastrointestinal tract irritation. Immediately elute by swallowing water or milk. Call a physician.

In case of an emergency involving this product, Call Collect, day or night: (314) 694-4000

Environmental Hazards

Do not apply directly to water or wetland; swamps, bogs, marshes or pastures. Do not contaminate water by cleaning of equipment or disposal of wastes.

Physical or Chemical Hazards

Spray solutions of this product should be mixed, stored and applied only in stainless steel, aluminum, nonferrous plastic and plastic-lined steel containers.

DO NOT MIX, STORE OR APPLY THIS PRODUCT OR SPRAY SOLUTIONS OF THIS PRODUCT IN GALVANIZED STEEL OR UNLINED STEEL (EXCEPT STAINLESS STEEL) CONTAINERS OR SPRAY TANKS. This product or spray solutions of this product react with such containers and tanks to produce hydrogen gas which may form a highly combustible gas mixture. This gas mixture could flash or explode, causing serious personal injury if ignited by open flame, spark, welder's torch, lighted cigarette or other ignition source.

Storage and Disposal

Do not contaminate water, foodstuffs, feed or seed by storage or disposal.

STORAGE

At temperatures below 50°F, the viscosity of this product may increase to a point that pouring and mixing could be difficult.

DISPOSAL

Wastes resulting from the use of this product that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticide disposal or buried on site in a safe place away from water supplies. All disposal should be in accordance with applicable Federal, state or local procedures.

Emptied container retains vapor and product residue. Observe all labeled safeguards until container is destroyed.

Do not reuse container. Triple rinse container. Then puncture and dispose of in a sanitary landfill or by incineration or, if allowed by state or local authorities, by burning. If burned, stay out of smoke.

ACTIVE INGREDIENT

*Isopropylamine salt of glyphosate 28.8%

INERT INGREDIENTS 71.2%

100.0%

*Contains 324 grams per litre or 2.7 pounds of the active ingredient, isopropylamine salt of N (phosphono-methyl) glycine per U.S. gallon. Equivalent to 240 grams per litre or 2 pounds per U.S. gallon of the acid glyphosate.

Product protected by U.S. Pat. No. 3,799,758 and U.S. Pat. No. 4,405,531. Other patents pending.

GENERAL INFORMATION

Ranger is a postemergence herbicide used in agricultural systems for control of quackgrass and other weeds listed on this label.

This product enters the plant through the foliage and moves throughout the plant. Visible effects of control are a gradual wilting or yellowing of the plant which advances to complete browning of above-ground growth and deterioration of affected underground plant parts. Visible symptoms will usually develop on treated weeds within 2 to 4 days after application, but may not occur for 7 or more days. Extremely cool or cloudy weather following treatment may slow activity of this product and delay the visible effects of control.

This product does not provide residual weed control. For subsequent residual weed control, follow a label-approved herbicide program. Read and carefully observe the cautionary statements and all other information appearing on the label of all herbicides used.

APPLICATION PRECAUTIONS AND WARNINGS

- Apply only when there is no hazard from spray drift, since very small quantities of spray which may not be visible may severely injure susceptible crops or desirable vegetation.
- The likelihood of injury occurring to adjacent crops from the use of this product is greatest when winds are gusty or in excess of 5 miles per hour or when other conditions including lesser wind velocities will favor spray drift.
- Do not feed or forage vegetation from treated areas within 8 weeks after application.
- Buyer and all users are responsible for all loss or damage in connection with the use or handling of mixtures of this herbicide or other materials that are not expressly recommended in this label. Mixing this product with herbicides or other materials not recommended on this label may result in reduced performance. Use of this product in any manner not consistent with this label may result in injury to persons, animals, or crops, or other unintended consequences.

DIRECTIONS FOR USE

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

Timing of Application

The product should be applied postemergence to vigorously growing weeds when they have reached the maximum height. See given in the WEEDS CONTROLLED section of this label. Application should be delayed until maximum emergence of the target weeds.

For quackgrass control in the fall, do not till between highest application for quackgrass control in the spring and harvest in the fall or spring prior to application. A tillage operation following application may give improved quackgrass control 3 or more days after application before tillage.

When applied as directed under the conditions described in this product label, the weeds listed on this label prior to the emergence of the following crops:

| | |
|----------------|----------------|
| Alfalfa | Forage legumes |
| Barley | Oats |
| Corn (all) | Wheat |
| Forage grasses | |

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WEEDS CONTROLLED

For control of quackgrass and associated annual weeds, apply 3 quarts per acre of this product in recommended water volumes when the plants have reached the 3 to 4 leaf stage and are at least 6 to 8 inches high. In sod situations, this product may be tank mixed with 2,4-D or Banvel® for forage legume control. Refer to the specific product labels for use rates, application restrictions and cautionary statements.

When applied as directed under the conditions described, this product controls the following annual and perennial weeds listed below:

RECOMMENDED RATES AND WEEDS CONTROLLED

| ANNUAL WEED SPECIES | MAXIMUM HEIGHT | RATE PER ACRE |
|--------------------------|----------------|---------------|
| Fescue | 12" | 12 oz |
| Secale spp | | |
| Barnyardgrass | 6" | 18 oz |
| Echinochloa crus-galli | | |
| Bluestems, annual | | |
| Poa annua | | |
| Bromus, downy* | | |
| Bromus tectorum | | |
| Mustard, blue | | |
| Chorispora tenella | | |
| Mustard, taney | | |
| Descurainia ornata | | |
| Mustard, tumble | | |
| Sisymbrium irio | | |
| Mustard, wild | | |
| Sinapis arvensis | | |
| Spurry, umbrella | | |
| Horsetail umbellatum | | |
| Barley | 12" | |
| Hordeum vulgare | | |
| Rye | | |
| Secale cereale | | |
| Sandbar, field | | |
| Cenchrus spp | | |
| Shattercane | | |
| Sorghum bicolor | | |
| Sonchgrass | | |
| Eragrostis cilianensis | | |
| Wheat | 18" | |
| Triticum aestivum | | |
| Morningglory | 3" | 24 oz |
| Ipomoea spp | | |
| Bluestem, bulbous | 6" | |
| Poa bulbosa | | |
| Cheat | | |
| Bromus secalinus | | |
| Cocklebur, common | | |
| Caryophyllus vulgatum | | |
| Corn, volunteer | | |
| Zea mays | | |
| Groundsel, common | | |
| Senecio vulgaris | | |
| Horseweed, black | | |
| Conyza canadensis | | |
| Panicum, field | | |
| Favonoid | | |
| Thlaspi arvense | | |
| Reckel, London | | |
| Sisymbrium irio | | |
| Ryegrass, Italian | | |
| Lolium multiflorum | | |
| Shepherdspurse | | |
| Capsella bursa-pastoris | | |

RECOMMENDED RATES AND WEEDS CONTROLLED

| ANNUAL WEED SPECIES | MAXIMUM HEIGHT | RATE PER ACRE |
|-----------------------------|----------------|---------------|
| Buttercup | 12" | 24 oz |
| Ranunculus spp | | |
| Cocklebur | | |
| Xanthoxylum | | |
| Crofton | | |
| Digitalis spp | | |
| Downlandclover | | |
| Trifolium repens | | |
| Fallopia, smooth | | |
| Galium aparine | | |
| Lambquarters, common | | |
| Chenopodium album | | |
| Oats, wild | | |
| Avena fatua | | |
| Panicum, fall | | |
| Panicum dichotomiflorum | | |
| Panicum, Texas | | |
| Panicum texanum | | |
| Pigweed, redroot | | |
| Amaranthus retrofractus | | |
| Pigweed, smooth | | |
| Amaranthus hybridus | | |
| Wildgrass | | |
| Panicum capillare | | |

*For control in no-till systems, use 24 fluid ounces per acre.

| PERENNIAL WEED SPECIES | GROWTH STAGE | RATE PER ACRE |
|------------------------|---------------|---------------|
| Fescue (fall)* | 4 to 12" | 3 pts |
| Festuca arundinacea | | |
| Holly, sweet | 8" or more | 3 pts |
| Muhlenbergia frondosa | | |
| Quackgrass | 3 to 4 leaves | 3 pts |
| Agropyron repens | | |

*Fall applications only.

*Lower is a trademark of Sande, Inc.

APPLICATION EQUIPMENT

Do not apply this product through any type of irrigation system.

This product may be applied using either ground or aerial spray equipment. Use extreme care to avoid misting or drifting of herbicide solution onto foliage, green stems or fruit of desirable crops, trees or plants during both growing and dormant periods, since even small quantities of spray can cause severe plant injury.

Ground Application: Apply recommended rates of this product in 5 to 30 gallons of water per acre as a broadcast spray. For optimum spray distribution and coverage use flat fan or low-volume flood nozzles. When using flood nozzles, space them no more than 40 inches apart and ensure double overlap of spray pattern. Refer to the manufacturer's recommendations for correct pressure and nozzle height above the target canopy. Wind pressure and nozzle combinations which produce fine droplets or mist susceptible to drift.

Use appropriate marking devices to ensure uniform spray coverage and best results from Ranger herbicide.

Aerial Application: Apply the recommended rates of this product in 3 to 15 gallons of water per acre as a broadcast spray. DO NOT APPLY DURING INVERSION CONDITIONS WHEN WINDS ARE GUSTY OR WHEN OTHER CONDITIONS WILL FAVOR DRIFT. DRIFT MAY CAUSE DAMAGE TO ANY VEGETATION CONTACTED TO WHICH TREATMENT WAS NOT INTENDED. TO PREVENT INJURY TO ADJACENT DESIRABLE VEGETATION, APPROPRIATE BUFFER ZONES MUST BE MAINTAINED.

Coarse sprays are less likely to drift, therefore do not use nozzles or nozzle configurations which disperse spray as fine spray droplets. Do not angle nozzles forward into the stream and do not increase spray volume by increasing nozzle pressure.

Drift control additives may be used when making aerial applications. When a drift control additive is used, read and carefully observe the cautionary statements and all other information appearing on the additive label.

MIXING INSTRUCTIONS

Fill the spray tank to about 3/4 of the desired volume with clean water. Add the recommended amount of Ranger herbicide, then complete the filling process while maintaining agitation. Remove the hose from the mix tank immediately after filling to avoid siphoning back into the carrier source. During mixing and application, foaming of the spray solution may occur. To prevent or minimize foam, terminate by open and return lines at the tank bottom and/or use an agriculturally approved anti-foam or defoaming agent.

Mixing this product with herbicides or other materials not recommended on this label may result in reduced performance. Do not add additional surfactant to the spray solution when using Ranger herbicide.

NOTE: Reduced results may occur if water containing soil is used, such as water from ponds and unlined ditches.

When mixing in water below 50°F without vigorous agitation, Ranger should be premixed with water in a ratio of two parts water to one part Ranger.

SPRAYER CLEANUP

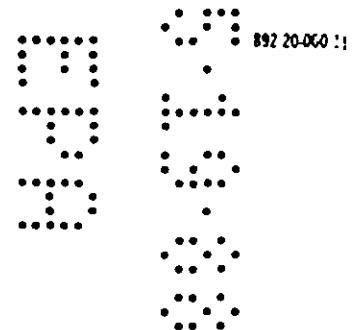
Clean sprayer and parts immediately after using this product by thoroughly flushing with water.

Thoroughly wash aircraft, especially landing gear, after each day of spraying to remove residues of this product accumulated during spraying or from soils. PROLONGED EXPOSURE OF THIS PRODUCT TO UNCOATED STEEL SURFACES MAY RESULT IN CORROSION AND POSSIBLE FAILURE OF THE PART. LANDING GEAR ARE THE MOST SUSCEPTIBLE. The maintenance of an organic coating (paint) which meets aerospace specification MIL-C-38412 may prevent corrosion.

In case of emergency involving this product, call Collect, day or night: 314-694-4000.

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