

524-375 PM23
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GRANULAR

BUCKLE6

HERBICIDE BY MONSANTO

Granular selective herbicide for spring or fall preplant application to control wild oats and pigeongrass in Spring Wheat, Durum Wheat and Barley.

Read the entire label before using this product.
Use only according to label instructions.
NOT FOR REFORMULATION OR REPACKAGING
Read "LIMIT OF WARRANTY AND LIABILITY" before buying or using. If terms are not acceptable, return at once unopened.

PRECAUTIONARY STATEMENTS

6/1987
524-375

Hazards to Humans and Domestic Animals

Keep out of reach of children

CAUTION!

MAY CAUSE EYE IRRITATION.

Avoid contact with skin, eyes or clothing.
Wash thoroughly with soap and water after handling.

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

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

Environmental Hazards

"This pesticide is toxic to fish. Do not apply directly to water or wetlands (swamps, bogs, or marshes). Drift or runoff from treatment areas may be hazardous to aquatic organisms in neighboring aquatic sites. Do not contaminate water by cleaning of equipment or disposal of waste.

ENDANGERED SPECIES RESTRICTIONS

Before using this pesticide on wheat or barley in the counties listed below, you must obtain the PESTICIDE USE BULLETIN FOR PROTECTION OF ENDANGERED SPECIES for the county in which the product is to be used. The bulletin is available from your County Extension Agent, State Fish and Game Office, or your pesticide dealer. Use of this product in a manner inconsistent with the PESTICIDE USE BULLETIN FOR PROTECTION OF ENDANGERED SPECIES, is a violation of Federal laws.

- ALABAMA Lauderdale, Limestone and Madison
- ARIZONA Graham, Maricopa, Mohave, Pima, Pinal and Santa Cruz
- ARKANSAS Benton and Polk
- CALIFORNIA Butte, Colusa, Glenn, Merced, Sacramento, Solano Sutter, Tehema and Yolo
- MISSISSIPPI Claiborne, Copiah and Hinds
- MISSOURI Barry, Benton, Camden, Christian, Dallas, Greene, Hickory, Jasper, Lawrence, Miller, Newton, Osage, Polk, St. Clair, Stone and Webster
- NEVADA Clark
- NEW MEXICO Chaves, DeBaca and Eddy
- OHIO Pickway
- OKLAHOMA Delaware, McCurtain and Pushmataha
- OREGON Lake
- TENNESSEE Lawrence and Wayne
- TEXAS Bastrop, Burleson, Comal, Harris, Hays, Jeff Davis, Pecos and Reeves
- UTAH Utah and Washington

Storage and Disposal

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

STORAGE:

Keep bag closed to prevent spills and contamination.

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.

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.

ACTIVE INGREDIENT:

S-(2,3,3-Trichloroallyl)diisopropylthiocarbamate.....	10%
a,a,a-trifluoro-2,6-dinitro-N,N-dipropyl-p-toluidine.....	3%
INERT INGREDIENTS.....	$\frac{87\%}{100\%}$

MONSANTO COMPANY 1985

BUCKLE® is a registered trademark of Monsanto Company

EPA Reg No. 524-375

If you have any questions concerning this label or the proper application or use of BUCKLE, contact your local Monsanto Sales Representative.

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

DIRECTIONS FOR USE

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

This product is recommended for spring or fall application prior to planting spring wheat, durum wheat, and barley to control wild oats, green foxtail (Setaria viridis) and yellow foxtail (Setaria lutescens). Green and yellow foxtail are commonly referred to as pigeongrass.

Application equipment must be properly calibrated - application of too much herbicide may injure the crop - application of too little may result in poor weed control. Recommended rates should be followed in order to:

1. Avoid crop injury
2. Avoid herbicide residues at harvest
3. Control weeds.

Use of this product not consistent with this label may result in injury to person, animals or crops, or other unintended consequences. Keep container closed to prevent spills and contamination.

Application a field which is wet, lump, rough or ridged will result in reduced weed control and promote crop thinning. Incorporation must be completed within 24 hours after application and before germination of the weeds. If weeds have emerged prior to treating and/or planting, they must be controlled. All deep tillage by cultivators or double disc implements must be completed prior to application. Do not plow following application of this herbicide.

When using this herbicide, a strip should be left untreated for proof of results. Weed control may be evaluated also by removing a surface inch or two of soil at the time of germination to inspect the number of weed seedlings killed before emergence.

Weeds are usually killed before emergence, but occasionally and particularly under dry conditions, plants may reach the 3 to 4 leaf stage before they die.

Under conditions of prolonged high temperature at the time of germination or extreme drought in the spring, this product may not maintain the usual high standard of weed control.

ATTENTION

DELAYED EMERGENCE, STAND REDUCTION, STUNTING AND YIELD LOSS MAY RESULT DUE TO COLD OR WET CONDITIONS, IRRIGATION DURING GERMINATION OR EMERGENCE, DEEP PLANTING, SOIL CRUSTING, DISEASE, INSECTS, POOR SEED QUALITY, OR SELECTION OF A VARIETY GENETICALLY SUSCEPTIBLE TO STRESS. THESE ARE CONDITIONS BEYOND THE CONTROL OF MONSANTO, AND THE GROWER SHOULD CONSULT THE STATE UNIVERSITY EXTENSION SPECIALIST OR SEED PRODUCER OR SUPPLIER FOR LOCAL VARIETAL INFORMATION AND RECOMMENDED TILLAGE AND PLANTING PRACTICES AND DATES.

NOTE: Slight stand reductions do not normally affect yield.

NOTE: Do not graze livestock on treated crops.

Do not apply Buckle® for durum wheat or hard red spring wheat on soil that has been planted to soybeans or sugarbeets and treated with trifluralin the previous year.

Sugar beets, red beets, or spinach should not be planted for 14 months after application of this product.

If less than 20 inches of total water were used to produce the crop, do not plant any of the above-mentioned crops for 20 months after application of this product. Cool, wet conditions during the early stage of growth may increase the possibility of injury to sorghum.

Do not use this product on soils containing more than 10% organic matter or on muck soils.

Do not apply this product to soils which are subject to prolonged periods of flooding.

Sorghum, proso millet, corn or oats should not be planted for 16 months after application of this product.

Certain vegetable crops should not be planted within 5 months following application of this product. Consult a Monsanto representative for those vegetable crops which can or cannot be planted safely.

Use in any manner not consistent with label directions can result in serious injury to the crop.

HOW TO APPLY AND CALIBRATE EQUIPMENT

This granular herbicide must be applied through a specially designed ground applicator capable of applying small quantities of granules evenly.

It is important that the applicator be calibrated properly to deliver the desired amount of this product to avoid applying too little, or too much, material. To give even distribution, scatter plates (similar to those used for applying granules in a band) must be attached to each delivery tube or outlet in such a manner to give overall coverage. To calibrate, attach a collector pan, or strong, vented plastic bag, over each spreader plate or deliver tube. Operate over normal terrain to be treated at 4 to 5 miles per hour. Collect the granule from all outputs after covering the desired distance.



For example. If a 14-foot applicator is being used, stake off a distance of 324 feet in the field to be treated (distance equal to 1/10 acre treated). After attaching a bag, or collection pan, to each outlet, collect the granules while driving the desired distance. Check to see that each outlet disperses the same amount of granules. Combine all samples and weigh. For the above set of conditions, the quantity of granules that should be collected for the following recommended rates for broadcast treatment are:

	<u>RECOMMENDED RATE PER ACRE</u>	
	10 lbs	12.5 lbs
Proper amount to be collected	1.0 lbs	1.25 lbs

If more or less than the desired quantity is collected, adjust opening accordingly and again collect the granules while driving the staked-off distance. Continue this procedure until the proper amount is delivered.

FIELD PREPARATION

Before applying this product, be sure the soil is in good working condition. All deep tillage by cultivation, or double disc implements, must be completed prior to application of this herbicide. If stubble ground is being treated, one or two passes with a field cultivator may be required before application and incorporation.

INCORPORATION DIRECTIONS

Fall Applications

When incorporating with a single pass in the fall, a second incorporation must be performed in the spring during seedbed preparation. If no spring work is anticipated, then both incorporations should be done in the fall.

Spring Applications

Apply granules and incorporate with equipment such as a culti-harrow or duckfoot cultivator. A second incorporation at right angles should provide best results.

General Incorporation Guidelines

For proper incorporation of BUCKLE, set incorporation implement to work the soil no deeper than 3 or 4 inches. Do not use disc implements for incorporation.

On summer fallow ground which is loose and free of lumps and trash, incorporate this product using equipment similar to a field cultivator, culti-harrow or a duckfoot with a rod weeder attachment.

For applications to fields of standing stubble, fields may be worked once or twice with a field cultivator or chisel plow. Apply granules and incorporate with a field cultivator or culti-harrow.

If soil must be ridged after incorporating to prevent soil erosion by high winds, the depth of ridging should be kept to a minimum.

In preparing the herbicide treated area for seeding in the spring, care must be taken to avoid working the soil any deeper than fall tillage.

APPLICATION RATES

Apply BUCKLE in the spring or fall prior to planting Spring Wheat, Durum Wheat or Barley at rates listed in the Application Rate Table.

Application Time	Spring Wheat	Durum Wheat	Barley
Spring	10 lb/A	10 lb/A	10-12.5 lb/A
Fall	10-12.5 lb/A	10-12.5 lb/A	10-12.5 lb/A

In the Fall, apply within 3 weeks of normal freezeup or until snow covers occurs.

Apply higher rates on heavy weed infestations within the recommended range. ✓

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 ("Directions") when used in accordance with those Directions under the conditions described therein. NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR PARTICULAR PURPOSE OR MERCHANTABILITY IS MADE. This warranty is also subject to the conditions and limitations stated therein.

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, 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 applications 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 or crop.

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 OR CONSEQUENTIAL DAMAGES.

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