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**BUCKLE®**

Granular Herbicide  
by Monsanto

Granular selective herbicide for spring preplant application to control wild oats and pigoongrass in Barley and Green and Field Dried Peas; and for fall preplant application to control wild oats and pigoongrass in Barley, Durum Wheat, and Winter Wheat; and for fall preplant application to suppress downy brome in Winter Wheat.

For use in Colorado, Idaho, Kansas, Minnesota, Montana, Nebraska, Nevada, North Dakota, Oregon, South Dakota, Utah, Washington, and Wyoming.

**Complete Directions for Use**

EPA Reg. No. 524-375

®Registered trademark of Monsanto Company

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.

**PRECAUTIONARY STATEMENTS**

Hazards to Humans  
and Domestic Animals

Keep out of reach of children.

CAUTION!

MAY CAUSE EYE IRRITATION.

Avoid contact with skin, eyes, or clothing.

This product may cause skin sensitization reactions in some people.

Wash thoroughly with soap and water after handling.

**FIRST AID: IF IN EYES**, immediately flush with plenty of water at least 15 minutes. Get medical attention.

**ACCEPTED**

JAN 12 1999

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No 524-375

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

**Personal Protective Equipment**

Applicators and other handlers must wear:

Long-sleeved shirt and long pants. Shoes plus socks.

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.

**User Safety Recommendations**

User should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- 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.
- Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

**Environmental Hazards**

This pesticide is extremely toxic to freshwater marine, and estuarine fish and aquatic invertebrates including shrimp and oyster. Do not apply in a manner which will directly expose canals, lakes, streams, ponds, marshes or estuaries to aerial drift. 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 when disposing of equipment washwaters.

**ACTIVE INGREDIENT:**

S-(2,3,3-Trichloroallyl)diisopropyl-thiocarbamate .....	10.0%
α,α,α -trifluoro-2,6-dinitro-N,N-dipropyl-p-toluidine .....	3.0%
INERT INGREDIENTS: .....	87.0%
	<u>100.0%</u>

**DIRECTIONS FOR USE**

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

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 requirement 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, 40CFR 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 interval. 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. Exception: if the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

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
- Chemical-resistant gloves
- Shoes plus socks

When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.24 (d) (4-6)), the handler PPE requirements may be reduced or modified as specified in the WPS.

Storage and Disposal

Do not contaminate water, foodstuffs, feed or seed 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 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.

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

This product is recommended for spring application prior to planting barley or peas and for fall application prior to planting barley, durum wheat or winter wheat to control wild oats, green foxtail (*Setaria viridis*) and yellow foxtail (*Setaria glauca*) and for fall application prior to planting winter wheat to suppress downy brome (*Bromus tectorum*). 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 persons, animals or crops, or other unintended consequences. Keep container closed to prevent spills and contamination.

Application to a field which is wet, lumpy, 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 product.

To minimize stress and allow for uniform germination, seeding depth must be less than 2 inches. Delay spring planting of spring wheat until the average soil temperature at the 2-inch depth is 45 degrees F or greater.

When using this product, 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.

Application is limited to one per growing season and must not exceed 15 lbs of this product per acre.

Do not apply this product prior to durum wheat on soil that has been planted to soybeans or sugar beets and treated with trifluralin the previous year.

Do not rotate to crops other than winter wheat, spring and durum wheat, triticale, barley, peas (green, field dried, chickpeas, garbanzo beans), and lentils for 12 months after a Buckle application.

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

Sorghum, proso millet, corn or oats should not be planted for 16 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 on eroded clay hillsides.

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.

Do not use Buckle preplant to winter wheat seeded with double-disc press drills.

**HOW TO APPLY AND CALIBRATE EQUIPMENT**

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

Do not apply aurally.

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 delivery tube. Operate over normal terrain to be treated at 4 to 5 miles per hour. Collect the granules 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:

	RECOMMENDED RATE PER ACRE	
	10 lbs	12.5 lbs
Proper amount to be collected	1.0 lb	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 product. 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 this product, 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 prior to planting barley or peas, or in the fall prior to planting barley, durum wheat or winter wheat at the rates listed in the Application Rate Table.

Application Time	Barley/Peas	Durum Wheat	Winter* Wheat
Spring	10-12.5 lb/A	•	•
Fall	10-12.5 lb/A	10-12.5 lb/A	12.5-15 lb/A

In the fall, apply within 3 weeks of normal freezeup or until snow cover occurs.

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

\*Do not use prior to conventional seeding with double-disc press drills. Only recommended for use with no-till or deep furrow drills.

**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 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, 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 DAMAGE 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.

For more product information call toll-free 1-800-332-3111.

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

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