

US ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF PESTICIDES PROGRAMS
REGISTRATION DIVISION (75-767)
WASHINGTON, DC 20480

EPA REGISTRATION NO.

DATE OF ISSUANCE

100-715

APR 18 1991

TERM OF ISSUANCE

Conditional

NAME OF PESTICIDE PRODUCT

Derby Granular Herbicide

NOTICE OF PESTICIDE: REGISTRATION
 REREGISTRATION

(Under the Federal Insecticide, Fungicide,
and Rodenticide Act, as amended)

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

CIFA GIEGY Corporation
Agricultural Division
P.O. Box 18306
Greensboro, NC 27419

NOTE: Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above U.S. EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an indorsement or approval of this product by this Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(5) A, provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
2. Add the phrase, "EPA Registration No.100-715" to your label before you release the product for shipment.
3. Submit five (5) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 Enclosure for a further description of final printed labeling.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

Joanne J. Miller

DATE

4/15/91

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(Front Panel)

Derby™

ACCEPTED
with COMMENTS
EPA Letter Dated:

April 18, 1991

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, this product
is registered under EPA Reg. No.
100-713

Granular Herbicide

For weed control in nurseries and
landscape plantings.

40 Pounds
Net Weight

Active Ingredients:

Metolachlor: 2-chloro-N-(2-ethyl-6-methylphenyl)- N-(2-methoxy-1-methylethyl) acetamide	4.0%
Simazine: 2-chloro-4,6-bis(ethylamino)-s-triazine	1.0%
<u>Inert Ingredients:</u>	<u>95.0%</u>
Total	100.0%

Control No. (40 lbs.)

Derby is a granular herbicide

KEEP OUT OF REACH OF CHILDREN

CAUTION /

See additional precautionary statements on back of bag.

EPA Reg. No. 100-

EPA Est.

See directions for use on back of bag

CIBA-GEIGY

BEST AVAILABLE COPY

(Back Panel)

DIRECTIONS FOR USE AND CONDITIONS OF SALE AND WARRANTY

IMPORTANT: Read the entire Directions for Use and the Conditions of Sale and Warranty before using this product. If terms are not acceptable, return the unopened product container at once.

Conditions of Sale and Warranty

The Directions for Use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with 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 CIBA-GEIGY or the Seller. All such risks shall be assumed by the Buyer.

CIBA-GEIGY warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions for Use subject to the inherent risks referred to above. CIBA-GEIGY makes no other express or implied warranty of Fitness or Merchantability or any other express or implied warranty. In no case shall CIBA-GEIGY or the Seller be liable for consequential, special, or indirect damages resulting from the use or handling of this product. CIBA-GEIGY and the Seller offer this product, and the Buyer and user accept it, subject to the foregoing Conditions of Sale and Warranty, which may be varied only by agreement in writing signed by a duly authorized representative of CIBA-GEIGY.

DIRECTIONS FOR USE

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

No user shall permit the application of this product in such a manner as to directly or indirectly expose workers or other persons except those knowingly involved in the application. The area being treated must be vacated by unprotected persons.

Reentry Statement

Do not enter treated areas without protective clothing until dust has settled.

Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. Oral warnings must be given which inform workers of areas or fields that may not be entered without specific protective clothing until dust has settled, and appropriate actions to take as described under Precautionary Statements at the end of this label. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information: "CAUTION. Area treated with Derby on (date of application). Do not enter without appropriate protective clothing until dust has settled. In case of accidental exposure, flush eyes or skin with plenty of water. Call a physician if irritation persists. Remove and wash contaminated clothing before reuse."

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR WEED CONTROL, CROP INJURY, AND/OR ILLEGAL RESIDUES.

General Information

Derby is a granular herbicide containing the active ingredients, metolachlor and simazine. Derby will control many annual grasses, certain broadleaf weeds, and yellow nutsedge in commercial landscapes and in a number of container-, field-, or liner-grown ornamentals.

DO NOT USE IN GREENHOUSES OR OTHER ENCLOSED STRUCTURES.

NOTICE TO USER: Plant tolerances to Derby herbicide have been found to be acceptable in the specific genera and species listed on this label. Because of the large number of species and varieties of plants, it is impossible to test each for tolerance to Derby. Neither the manufacturer nor the seller has determined whether or not Derby can be used safely on plants not specified on this label. The professional user should determine if Derby can be used safely before using commercially. In a small area, test the recommended rates for a particular group of unlabeled plants for phytotoxicity before widespread use.

Nurseries and Landscape Plantings

Apply Derby using a rotary spreader or similar type applicator at rates indicated below for control of many annual grasses, certain broadleaf weeds and yellow nutsedge. Calibrate spreader before application according to the manufacturer's directions. Refer to chart below for suggested settings. Settings are only reference points for calibration. Because of variations in equipment, equipment age and condition, humidity, variations in walking speed, and other variables, these settings should not be used without first checking them through calibration.

Suggested Applicator Settings

Rate Per Acre	40 lbs	60 lbs.	80 lbs.
Rate Per 1,000 sq. ft.	0.9 lb.	1.35 lbs.	1.8 lbs.
Oz. per 1,000 sq. ft.	14.5 ozs.	21.75 ozs.	29 ozs.
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Applicator Brand	Suggested Settings		
Scott R-7	B + 1/10	B + 6/10	C + 1/10
Scott R-8	F + 7/10	G + 3/10	G + 7/10
Lesco	A + 3/10	A + 9/10	B + 4/10
Warren T	2 + 1/10	2 + 6/10	3.0
Spyker & Cyclone	3 + 5/10	3 + 8/10	4 + 1/10

Weeds Controlled

annual bluegrass	green foxtail	yellow foxtail
barnyardgrass	Mexican sprangletop	yellow nutsedge
(watergrass)	prairie cupgrass	black nightshade
crabgrass	red rice	carpetweed
crowfootgrass	signalgrass	chickweed
fall panicum	(Brachiaria)	evening primrose
foxtail millet	southwestern cupgrass	Florida pusley
giant foxtail	witchgrass	galinsoga
goosegrass		henbit
		pigweed
		ragweed
		spotted spurge

Weeds Partially Controlled*: common purslane, groundsel, hairy nightshade, sandbur, seedling johnsongrass, shattercane and volunteer sorghum.

*Control of these weeds can be erratic due partly to variable weather conditions.

Note: If you plan to use Derby to control weed species not listed on this label, check with your local weed specialist or test Derby on a small-scale basis before applying.

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Application

Broadcast Derby at rates shown below. Apply before grass, broadleaf weeds or yellow nutsedge emerge, or after existing weeds or nutsedge have been removed. A second application may be needed to provide grass and yellow nutsedge control for an extended period. Do not make more than 2 applications per year (160 lbs./A).

Suggested Rates of Derby

<u>Soil Texture</u>	<u>Lbs./A*</u>	<u>Lbs./1,000 sq. ft.</u>
Coarse	40-60	0.9 - 1.4
Medium	40-60	0.9 - 1.4
Fine	60-80	1.4 - 1.8

*Use the higher rate for a given soil texture on soils with high organic matter content and where yellow nutsedge and/or a heavy infestation of other weeds is expected. Use the lower rates on soils with low organic matter content, and where light infestations of grass weeds are expected. In peat and muck soils and soils highly enriched with organic matter (i.e., sawdust) and/or synthetic soil mixes, the activity of Derby may be reduced.

If banded applications are used, calculate the amount of Derby needed as follows:

$$\frac{\text{Band width in inches}}{\text{Row Spacing in inches}} \times \frac{\text{Broadcast Rate}}{\text{Per Acre}} = \frac{\text{Banded Rate}}{\text{Per Acre}}$$

Precautions: 1) To avoid plant injury, do not apply Derby to seedbeds, cutting beds, or unrooted cuttings before transplanting or to plants until the soil has firmly settled around roots. 2) Should Derby granules adhere to the foliage, follow with sufficient overhead irrigation to wash Derby from the foliage to reduce the chance of injury.

Derby has been found to be safe on the following plants:

Container-Grown Plants

- Abelia, Glossy (Abelia grandiflora)
- Arborvitae, Globe (Thuja occidentalis 'Globosa')
- Azalea, Catawba (Rhododendron catawbiense)
- Azalea, Formosa, Indian (Rhododendron indica)
- Azalea, Kurume (Rhododendron obtusum)
- Birch, River (Betula nigra)
- Boxwood, common/English/American (Buxus sempervirens)
- Boxwood, Japanese (Buxus microphylla)
- Carex, Variegated
- Cedar, Red (Juniperus virginiana)
- Dogwood, flowering (Cornus Florida)

- Hemlock (Tsuga canadensis)
- Holly, Dwarf Burfordi (Ilex cornuta 'Burfordii Nana')
- Holly, Japanese (Ilex crenata)
- Holly, Savanna (Ilex attenuata 'Savannah')
- Hosta (Hosta lancifolia 'Albo Marginata')
- Ivy, English (Hedera helix)
- Juniper, Andorra (Juniper horizontalis)
- Juniper, Hick's (Juniperus sabina 'Foemina')
- Juniper, Pfizer (Juniperus cinensis 'pfitzeriana')
- Leucothoe (Leucothoe fontanesiana)
- Ligustrum (Ligustrum japonicum)
- Liriope, green (Liriope spicata)
- Liriope, Monroe White (Liriope muscara 'Monroe White')
- Liriope, variegated (Liriope muscara 'Variagata')
- Maple, Red (Acer rubrum)
- Mondograss (Ophiopogon japonicus)
- Oak, Willow (Quercus phellos)
- Pachysandra (Pachysandra terminalis)
- Pittosporum (Pittosporum tobira)
- Rosebay (Rhododendron maximum)
- Spicebush (Illicium anisatum)
- Sourwood (Oxydendrum aboreum)
- Wax Myrtle (Myrica cerifera)
- Yew (Taxus cuspidata)
- Yucca (Yucca spp.)

Field- and Liner-Grown Plants and Plants in Landscape Plantings*

*Plants transplanted normally in rows in a nursery or similar area for further growth before transplanting to final growing location (place of establishment).

In addition to using Derby on the ornamentals listed under Container-Grown Plants above, Derby may be used on those same ornamentals when they are grown as field, liner, and landscape plantings.

- Green ash (Fraxinus spp.)
- Hydrangea (Hydrangea spp.) including Annabel
- Lilac (Syringa spp.) including James McFarlane
- Pine (Pinus spp.) including Austrian, Black, Mugho, Scotch, White, Green, Virginia
- Poplar (Populus spp.)
- Russian Olive (Elaeagnus angustifolia)
- Snowberry (Symphoricarpos spp.) including White
- Spirea (Spiraea spp.) including Froebelli and Vanhoutte
- Willow (Salix spp.) including Corkscrew, Golden, Weeping

Derby may also be applied before or after applications of other herbicides registered for ornamentals (e.g., Goal®, Ronstar®, Surflan®, etc.) to broaden the spectrum of control.

Storage and Disposal

Pesticide

Store in a dry place. Do not contaminate water, food, or feed by storage, disposal, or cleaning of equipment. Open dumping is prohibited. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container

Completely empty bag into application equipment. 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 from burning bags.

For minor spills, follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes. In the event of a major spill, fire, or other emergency, call 1-800-888-8372 day or night.

Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION

Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling.

Statement of Practical Treatment

If in eyes: Flush with plenty of water. Call a physician if irritation persists.

If on skin: Wash with plenty of soap and water. Get medical attention if irritation persists.

Notes to Physician: If Derby is ingested, induce emesis or lavage stomach.

Continued

Environmental Hazards

Cover or incorporate granules that are spilled during loading or are visible on soil surface in turn areas. Do not contaminate water when disposing of equipment wash waters.

Ground Water and Surface Water Advisory

Metolachlor has been identified in limited sampling of groundwater and there is the possibility that it may leach through the soil to ground water, especially where soils are coarse and ground water is near the surface. Following application and during rainfall events that cause runoff, metolachlor may reach surface water bodies including streams, rivers, and reservoirs.

Simazine is a chemical which can travel (seep or leach) through soil and enter ground water which may be used as drinking water. Simazine has been found in ground water as a result of its use as a herbicide. Users of this product are advised not to apply simazine where the water table (ground water) is close to the surface and where the soils are very permeable, i.e., well drained soils such as loamy sands. Users are advised to consult with their local agricultural agencies to obtain information on the location of ground water and the type of soil in their area.

Care must be taken when using this product to prevent spills or improper disposal of excess pesticide granules.

Derby™ trademark of CIBA-GEIGY Corporation for metolachlor

Goal® trademark of Rohm and Haas Company for oxyfluorfen

Ronstar® trademark of Rhone-Poulenc for oxidiazon

Surflan® trademark of Elanco Products Company for oryzalin

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Agricultural Division
CIBA-GEIGY Corporation
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Revised February 13, 1990
change to Derby...
Revised January 5, 1991
precautionary
statements

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