



U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division (H7505C) 401 "M" St., S.W. Washington, D.C. 20460

EPA Reg. Number: 62719-494 Date of Issuance:

MAR 2.4 2003

NOTICE OF PESTICIDE:

X Registration
Reregistration

(under FIFRA, as amended)

Term of Issuance: Conditional

Name of Pesticide Product:

Dimension™ 0.22% FG

Name and Address of Registrant (include ZIP Code):

Dow AgroSciences LLC 9330 Zionsville Road Indianapolis, IN 46268

Note: Changes in labeling 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 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.

Registration is in no way to be construed as an endorsement or recommendation of this product by the 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 registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Add the phrase "EPA Registration No.62719-494 to the label before you release the product for shipment.

COMMENTS CONTINUED ON PAGE 2 OF THIS NOTICE OF REGISTRATION

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

Enclosure

Joanne I. Miller Product Manager (23) Herbicide Branch Registration Division (7505C)

ignature of Approving Official:

Date:

MAR 24 2003

Joanne A. Miller

MAR 2.4 2003

Comments Continued:

- 2. Revise the "Guaranteed Fertilizer Analysis: XX-XX-XX-XX†" section on the front panel to reflect ingredients and components that are listed in the Confidential Statement of Formula, Table 1, Possible Fertilizer Components for Use in Dimension on Fertilizer.
- 3. Submit the following data required for the registration of this pesticide product within 1 year form the date of this Notice of Registration:

EPA Guideline Data Number

Guideline Descriptor

830.6317

Storage Stability Study

- 4.. Delete the word "selective" as descriptor for this herbicide in the proposed labeling.
- 5. Delete the claim "NON-STAINING!" in the proposed labeling..
- 6. Add an EPA establishment number to the label.
- 7. Submit one (1) copy of the final printed labeling before you release this product for shipment.
- 8. Submit and/or cite all data required for the registration of this product when the Agency requires all registrants of similar products to submit data; and submit acceptable responses required for reregistration of this product under FIFRA, section 4.

[Front Panel of Bag]

(Logo) Dow AgroSciences

Dimension* 0.22% FG

Animatica (Official Cartain Heriotalica)

A selective herbicide that provides control or suppression of listed annual grasses and broadleaf weeds in ornamental landscape areas, established lawns and ornamental turf, including golf course fairways, roughs and tee boxes.

- Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes.
- For use on plants intended for aesthetic purposes or climatic modification and being grown in ornamental gardens or parks, or on golf courses or lawns.

In the state of New York, this product may be applied only by commercial applicators at no more than 227 lb (0.5 lb active ingredient) per acre (5.2 lb per 1000 sq ft) per year. Use of this product in Nassau and Suffolk counties of New York is prohibited.

Active Ingredient

dithiopyr: 3,5- pyridinedicarbothioic acid,	
2-(difluoromethyl)- 4-(2-methylpropyl)-6-	
(trifluoromethyl)-S,S-dimethyl ester	0.22%
Inert Ingredients	<u>99.78%</u>
Total	100.00%

This product contains 0.11 pound of the active ingredient dithiopyr per 50 pound bag. Product protected by U.S. Patent No. 4,692,184. Other patents pending

Guaranteed Fertilizer Analysis: XX-XX-XX[†]

Water-Insoluble Nitrogen	XX%
Total Nitrogen (N)	
Ammoniacal Nitrogen	XX%
Urea Nitrogen	XX%
Available Phosphoric Acid (P2O5)	XX%
Soluble Potash (K ₂ O)	
Magnesium (Mg)	
Iron (Fe)	XX%
Manganese (Mn)	

ACCEPTED
with COMMENTS
In EPA Letter Dated

MAR 2 4 2003

Under the Federal Insecticide, Fundicide, and Redenticide Act as amended, for the posticide registered under EPA Reg. No.

Keep Out of Reach of Children CAUTION

[†] This product may be formulated with one or more of the following fertilizer materials: sulfur coated urea, urea, methylene urea, ammonium phosphate, ammonium sulfate, diammonium phosphate, sulfate of potash, ferrous sulphate, manganese oxide, magnesium oxide, dolomite.

Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION: Causes Eye Irritation • Harmful If Inhaled

Avoid contact with eyes or clothing. Avoid breathing dust. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. Prolonged of frequently repeated skin contact while handling this material may cause allergic reaction in some individuals.

First Aid

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, the give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

Hot Line Number: Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-992-5994 day or night, for emergency treatment information.

Environmental Hazards

This product is toxic to fish and highly toxic to other aquatic organisms including oysters and shrimp. Use with care when applying to turf areas adjacent to any body of water. Drift and runoff from treated turf may adversely affect aquatic organisms in adjacent aquatic sites. 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 apply when weather conditions favor drift from treated areas. Do not contaminate water when disposing of equipment washwaters.

Refer to back/side panel of bag for Directions for Use including Storage and Disposal.

Notice: Read the entire label. Use only according to label directions. Before using this product, read Warranty Disclaimer, Inherent Risks of Use, and "Limitation of Remedies at end of Directions for Use. If terms are unacceptable, return at once unopened.

In case of emergency endangering health or the environment involving this product, call 1-800-932-5904.

Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.

EPA Reg. No. 62719-UOU

EPA Est.

*Trademark of Dow AgroSciences LLC

Dow AgroSciences LLC • Indianapolis, IN 46268 U.S.A.

Net Weight __ lb



[Back Panel of Bag]

Directions for use

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

Storage and Disposal

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

Storage: Store this product only in its original container in a dry, cool, secured storage area.

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.

Empty Container Disposal: Do not reuse empty bag. 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. **Spill:** In case of spill, sweep up material and dispose of material according to "product disposal" directions listed above.

Use Directions for Turf

Dimension* 0.22% FG turf and ornamental herbicide provides season-long control of crabgrass and control or suppression of other listed annual grasses and broadleaf weeds in established lawns and ornamental turfs, including golf course fairways, roughs, and tee boxes. When used according to label directions, this product will not harm nearby established ornamentals identified as "Tolerant Ornamentals" elsewhere in this label.

Use Precautions for Turf

This product may be used on seeded, sodded, or sprigged lawns and ornamental turfs that are well-established. Initial application of this product should be made only after turfgrasses have developed a vigorous root system, a uniform stand, and have received at least two mowings following seeding, sodding, or sprigging. Use of this product on turfgrasses that are not well-established, or weakened by stress from weather, pests, disease, chemical, or mechanical influences, may increase the changes of turf injury.

Apply this product only to turfgrass species listed on this label. The following turfgrass species are tolerant to this product when applied as directed:

Cool-Season Grasses	
Bentgrass, creeping †	Agrostis palustris
Bluegrass, Kentucky	Poa pratensis
Fescue, fine ^{††}	Festuca rubra
Fescue, tall	Festuca arundinacea
Ryegrass, perennial	Lolium perenne
Warm-Season Grasses	
Bahiagrass	Paspalum notatum
Bermudagrass	Cynodon dactylon
Buffalograss ^{†††}	Buchloe dactyloides
Carpetgrass	Axonopus affinis
Centipedegrass	Eremochloa ophiuroides
Kikuyugrass	Pennisetum clandestinum
St. Augustinegrass	Stenotaphrum secundatum
Zoysiagrass	Zoysia japonica

- [†] Use of this product on certain varieties of creeping bentgrass, such as 'Cohansey', 'Carmen', Seaside', and 'Washington' may result in undesirable turfgrass injury. Not all varieties of creeping bentgrass have been tested. **Do not** apply this product to Colonial bentgrass (*Agrostis tenuis*).
- "Use of this product on certain varieties of fine fescue may result in undesirable turf injury. The following fine fescue varieties have been found to be sensitive to this product: 'Atlanta', 'Banner', 'Beauty', 'Bilgart', 'CF-2', 'Enjoy', 'HF-93', 'Highlight', 'Ivalo', 'Jamestown', 'Koket', 'Majenta', 'Mary', 'Pennlawn', 'Tamara', 'Tatjana', 'Waldorf', and 'Waldina'. Not all varieties of fine fescue have been tested.
- ^{†††} **Do not** use this product on seedling buffalograss in the spring of the first year of establishment until the turfgrass is fully green and has established new roots.

Note: It is not possible to evaluate all turfgrass varieties for tolerance to this product. It is suggested that the user evaluate the response of turfgrass varieties not listed on this label on a limited area, at recommended use rates, prior to initiating large-scale use.

Precautions for Reseeding, Overseeding, or Sprigging

- Reseeding, overseeding, or sprigging of areas treated with this product within 10 weeks after a single
 application of this product or within 16 weeks after a split application program totaling 5.2 lb/1000 sq ft
 (0.5 lb active ingredient per acre) or more may inhibit the establishment of desirable turfgrasses.
- When reseeding or overseeding, follow established cultural practices for seedbed preparation, seeding, irrigation and fertilization.
- For best overseeding results, use mechanical or power seeding equipment (slit seeders) designed to provide good contact between soil and seed.

Precautions for Control of Crabgrass

Early postemergence weed control with this product is limited to crabgrass. Postemergence application effectively controls crabgrass, but only if application is made prior to the 3-leaf stage of growth or first tiller. For best results, cultural practices that disturb the soil, such as core-, spike-, or hydro-aerification, and verticutting, should be done before application of this product. **Do not** apply this product until turfgrass has recovered from the mechanical injury caused by these cultural practices.

Other Use Precautions

- Do not use clippings from treated turf for mulching around vegetables or fruit trees.
- Do not allow people or pets to enter treated area until dust has settled.
- Do not graze livestock or feed forage cut from areas treated with this product.

Application Directions for Turf

Tips for Improved Weed Control

- For best results, apply this product within a few days after mowing and delay mowing again for a few days after the application.
- The turf herbicide and fertilizer components in this product are not effective until activated by rainfall or irrigation. Performance is improved if application is followed by 1/2 inch of rainfall or sprinkler irrigation. Erratic weed control may result if not activated by rainfall or irrigation within 30 days after application.
- Use of split (half-rate) applications spaced 5 10 weeks apart may provide improved weed control.

Maximum Use Rates (Applies to all Turfgrass Uses)

• **Do not** apply more than 227 lb (0.5 lb active ingredient) per acre (5.2 lb per 1000 sq ft) per application or more than 682 lb (1.5 lb active ingredient) per acre (15.6 lb per 1000 sq ft) per year if using split or sequential applications.

 In the state of New York, this product may be applied only by commercial applicators at no more than 227 lb (0.5 lb active ingredient) per acre (5.2 lb per 1000 sq ft) per year. Use of this product in Nassau and Suffolk counties of New York is prohibited.

Control of Crabgrass

Preemergence and Early Postemergence Control

- This product provides "preemergence" control of crabgrass in established turfgrasses (including the large, smooth, and southern species) when applied prior to germination and emergence of crabgrass.
- This product also provides "early postemergence" control of crabgrass if applied prior to the 3-leaf stage of growth or first tiller as described below. This stage of growth generally corresponds to the time when crabgrass seedlings first become visible in the established turfgrass. The practical benefit of early postemergence crabgrass control is a 2 - 4 week longer period of time (window of application) during which crabgrass control can be achieved.

Application Frequency and Timing

This product may be applied as a single application, as a split application, or as a sequential application for crabgrass control in the spring, summer, or fall as described in the following use programs.

Spring Applications.

For applications made in the spring or early summer, use an appropriate application rate corresponding to one of the three control programs listed in Table 1. Specific rate recommendations are based on the user's location (Region), the mowing height of the turfgrass, and whether the application timing is considered to be preemergence or early postemergence. The duration of residual weed control provided by this product is directly related to application rate, but will vary somewhat depending on weather, weed pressure, turfgrass competitiveness, and the user's location within a region.

Use Program 1 for preemergence control at sites where turfgrass is cut relatively high (e.g., horneowner lawns). This program provides 3 - 5 months of preemergence crabgrass control. This program will also provide early postemergence control of crabgrass up to the 3-leaf stage or first tiller at sites where turfgrass is cut relatively high (e.g., homeowner lawns).

Use Program 2 for preemergence control at sites where (a) turfgrass is cut relatively low (e.g., golf fairways), and (b) turfgrass maintenance or weed control has been conducted during the previous year. This program provides 4 - 6 months of preemergence crabgrass control. This program may also be used for early postemergence control of crabgrass up to the 3-leaf stage or first tiller at sites where turfgrass is cut relatively high (e.g., residential lawns).

Use Program 3 for preemergence control at sites where (a) turfgrass is cut relatively low (e.g., golf fairways) and (b) turf maintenance or weed control has not been conducted during the previous year. This program provides 4 - 6 months of preemergence crabgrass control. This program may also be used for early posternergence control of crabgrass up to the 3-leaf stage or first tiller at sites where turfgrass is cut relatively low (e.g., golf fairways).

Table 1 Recommended Use Rates

Region	Application Rates	<u>Program 1</u>	Program 2	Program 3
All states, except NY, and	lb/acre	86	114	173
parts of states not included	oz/1000 sq ft	2.0	2.6	4.0
in transition, south, coastal south or west.	lb ai/acre	0.19	0.25	0.38
Transition: DE, KS, KY, MD,	lb/acre	114	173	227
MO, NJ, VA, southeastern PA,	oz/1000 sq ft	2.6	4.0	5.2
southern areas of IL, IN, OH, & coastal areas of CT, & RI	lb ai/acre	0.25	0.38	0.5
South: AL, AR, GA, LA, MS, NC,	lb/acre	173 _	114 + 114	141 + 141
NM, OK, SC, TN, & TX	oz/1000 sq ft	4.0	2.6 + 2.6 [†]	3.2 + 3.2 †
	lb ai/acre	0.38	0.25 + 0.25	0.31 + 0.31
Coastal South: HI, FL, &	lb/acre	114 + 114	141 + 141	173 + 173
southern coastal areas of AL, GA, LA, MS, NC, SC, & TX	oz/1000 sq ft	2.6 + 2.6 †	3.2 + 3.2 [†]	4.0 + 4.0 [†]
	lb ai/acre	0.25 + 0.25	0.31 + 0.31	0.38 + 0.38
West: AZ, CA, & NV. In this	lb/acre	86 + 173	114 + 173	114 + 114
climatically diverse region, use	oz/1000 sq ft	2.0 - 2.6	2.6 - 4.0	2.6 + 2.6 [†]
the higher rates in local areas with longer crabgrass seasons.	lb ai/acre	0.19 - 0.25	0.25 - 0.38	0.25 + 0.25

[†] Split applications may be made 5 - 10 weeks apart.

Use of Split or Sequential Applications: Split or sequential applications may be used to provide improved weed control or to provide extended weed control in areas with long growing seasons. Spile applications may be made with the rates in Table 1 being split between two applications made 5-10 weeks apart. Where longer periods of control are required, sequential applications may be made in late summer or fall following a spring application or in the spring following a fall application, provided the maximum application rate per year is not exceeded. Refer to the "Maximum Use Rates" section above and separate rate restrictions for the state of New York.

Fall Applications.

This product can also be applied in the late summer through early fall (late August through November) at use rates listed in Table 1 for "Program 3" to provide control of crabgrass through the early part of the next spring. Fall application of this product may be followed by an appropriately timed application in the following spring for season-long control of crabgrass.

Weeds Controlled or Suppressed

Spring Applications

When applied preemergence (prior to germination) for control of crabgrass in the spring, this product will also control or suppress the following weeds at application rates given in the Table 1 above:

Grasses

barley Hordeum spp.

Echinochloa crus-galli barnyardgrass

bluegrass, annual Poa annua brome Bromus spp.

crabgrass, large

Digitaria sanguinalis

crabgrass, smooth crabgrass, Southern

Digitaria ischaemum Digitaria ciliaris

crowfootgrass †

Dactyloctenium aegyptium

dallisgrass (seedling) goosegrass

Paspalum dilatatum Eleusine indica Setaria verdi

foxtail, green foxtail, yellow

Setaria faberi

kikuyugrass† oats, wild Pennisetum clandestinum

ryegrass

Avena fatua Lolium spp.

(annual & perennial)

sandbur smutgrass Cenchrus spp. Sporobolus indicus

Broadleaf Weeds

bittercress † carpetweed chickweed †

Cardamine spp.
Mollugo verticillata
Stellaria spp.

geranium, Carolina†

Geranium carolinianum

henbit

Lamium spp.

knotweed, prostrate lespedeza, common †

Polygonum aviculare Lespedeza striata Conyza canadensis Medicago lupulina

marestail medic, black mustard oxalis, buttercup

Medicago lupulina
Brassica spp.
Oxalis pes-caprae

pineappleweed †
pigweed, redroot
parsley-piert †
purslane, common

Matricaria matricarioides Amaranthus retroflexus Alchemilla arvensis Portulaca oleracea Sisymbrium irio Capsella bursa-pastoris

rocket, London shepherdspurse speedwell, corn[†] spurge, garden spurge, prostrate spurge, spotted woodsorrel, creeping

Veronica arvensis
Euphorbia hirta
Euphorbia humistrata
Euphorbia maculata
Oxalis corniculata
Oxalis stricta

woodsorrel, yellow
[†] Suppression only

Fall Applications

When applied preemergence (prior to germination) in late summer through early fall (late August through November) this product will control or suppress the following weeds in addition to providing preemergence control of crabgrass in the following spring.

bluegrass, annual

Poa annua Cardamine spp.

bittercress chickweed henbit

Stellaria spp. Lamium spp.

geranium, Carolina parsley-piert

Geranium carolinianum Alchemilla arvensis

pineappleweed shepherdspurse Matricaria matricarioides Capsella bursa-pastoris



Application Instructions and Equipment

This product may be applied with drop or rotary-type spreaders designed to apply granular herbicides. For best results, apply this product evenly and uniformly avoiding streaking, skips or overlaps. Avoid the use of spreaders that tend to apply granules in narrow rows or concentrated bands. Calibrate the spreader according to the manufacturer's directions. Initial spreader settings may require adjustment to deliver the recommended application rate under actual application conditions. The desired calibration setting may be marked or recorded for future reference. Apply this product uniformly over the treatment area. More uniformity of application can usually be achieved by applying one-half of the required amount of product over the treatment area and then applying the remaining one-half in a different direction (e.g., at a right angle to the previous direction). Avoid streaking, skips, or overlaps during application.

Check equipment frequently to verify calibration and proper functioning.

Use Directions for Landscape Ornamentals

Dimension 0.22% FG provides preemergence control or suppression of listed annual grass and broadleaf weeds in plantings of ornamental plants listed on this label. This product may be applied in ornamental gardens, parks, golf courses and residential areas where ornamental plants are grown for aesthetic purposes. Apply this product with a properly calibrated spreader that will provide uniform particle distribution. Follow instructions in the "Application Instructions and Equipment" section above.

Use Rates

This product may be applied as a single application or split application. Split or sequential applications may be used to provide improved weed control or to provide extended weed control in areas with long growing seasons. To make a split application, divide the rate in the following table into separate applications made 5-10 weeks apart. Sequential applications may be made in the late summer following a spring application or in the spring after a fall application, provided maximum application rates per year given below are not exceeded.

Pounds of Product/Acre	Pounds of Product/1000 sq ft	Pounds of Product/100 sq ft †	
227	5.2	0.52 (8.3 oz)	1

[†]Rate based on an area of 100 sq ft for treatment of small areas.

Maximum Use Rates

- **Do not** apply more than 227 lb (0.5 lb active ingredient) per acre (5.2 lb per 1000 sq ft) per application or more than 682 lb (1.5 lb active ingredient) per acre (15.6 lb per 1000 sq ft) per year if using sprit or sequential applications.
- In the state of New York, this product may be applied only by commercial applicators at no more than 227 lb (0.5 lb active ingredient) per acre (5.2 lb per 1000 sq ft) per year. Use of this product in Nassau and Suffolk counties of New York is prohibited.

Application Timing and Recommendations

Dimension 0.22% FG is effective as a preemergence herbicide, but will not control established weeds. Applications to mulched areas or bare ground must be made prior to weed seed germination. The best weed control is obtained when applied to soil that is free of clods, weeds and debris such as leaves. Existing weedy vegetation may be controlled by hand weeding, cultivation or using postemergence herbicides prior to application.

Tips for Improved Weed Control

- The herbicide and fertilizer components in this product are not effective until activated by rainfall or irrigation. Performance is improved if application is followed by 1/2 inch of rainfall or sprinkler irrigation. Erratic weed control may result if not activated by rainfall or irrigation within 30 days after application.
- Avoid disturbance of treated areas. Loss of weed control may result if the treated soil surface is disturbed by soil mixing or tillage.

Use Precautions

- Apply this product only to established ornamentals.
- Do not apply this product directly to bare roots of ornamental plants as injury may result.
- **Do not** incorporate this product into soil. Dilution of active ingredient and possible injury to plant roots may occur.
- Do not apply to soil around ornamental plants that are under stress resulting from drought, flooding, excessive fertilizer or soil salts, wind injury, hail, frost damage, winter injury, injury from previously applied pesticides, or damage due to insects, nematodes or disease.
- To avoid foliar damage to ornamentals, irrigate immediately after application to remove any herbicide granules adhering to foliage.
- Do not apply under conditions that would affect uniformity of application or distribution on the soil surface. Uneven product distribution will result in uneven weed control. Application under windy conditions can result in uneven distribution or cause herbicide granules to drift from the intended treatment area.
- Do not graze livestock or feed forage cut from areas treated with this product.

Weeds Controlled or Suppressed

Used as directed, Dimension 0.22% FG will control crabgrass and control or suppress other listed grass and broadleaf weeds when applied prior to their germination. **Refer to "Use Directions for Turf" section for a complete listing of weeds controlled or suppressed.** This product will not control established broadleaf weeds or grasses, except for crabgrass in early stages of development. The area to be treated should be free of weeds prior to application.

Tolerant Ornamentals

The ornamentals listed below have shown tolerance to this product when applied according to directions in this label. However, this product has not been tested on all ornamental species, all cultivars of species on this label, or under all possible growing conditions. For species or cultivars not listed, it is recommended that a few plants in a limited area be treated and observed for tolerance under local growing conditions prior to large-scale use.

Common Name	Botanical Name	Tolerant Cultivars
Abelia, Dwarf	Abelia X grandiflora	Nana
Ajuga	Ajuga reptans Ajuga genevensis	Bronze Bronze Beauty
Almond, Flowering	Prunus gladulosa	
Apple †	Malus pumila	
Arborvitae	Thuja occidentalis	Nigra Pyramidalis Smaragh Techny Woodwardii
Arborvitae, Golden	Thuja orientalis	
Aster, Chinese	Callistephus chinensis	Dwarf Queen
Ash, Green	Fraxinus pennsylvanica	

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Ash, Mountain	Sorbus aucuparia	
Ash, Mountain Ash, Purple Azalea	Sorbus aucuparia Fraxinus americana Rhododendron spp.	Brilliant Buccaneer Carror Chimes (Belgian) Elsie Lee Exbury Fashion Hardijzer Beauty Hershey Red Higasa Hinocrimson Holland (Hybrid) Marion Lee Northern Lights Orange Cup
		Orchid Lights Snow Southern Charm
Azalea, Flame	Rhododendron calendulaceum	
Azalea, Kirishima		
Bamboo, Heavenly		
Barberry	Berberis thunbergii	Aurea Dwarf Pigmy Green Kobold Pygmy Red Rose Glow
Barberry, Purple		Atropurpurea
Basket flower	Gaillardia grandiflora	
Bearberry (common)	Arctostaphylos uva-ursi	Massachusetts
Bee Balm	Monarda didyma	
Begonia	Begonia spp.	-
Birch, River	Betula nigra	
Blackeyed Susan	Rudbeckia hirta	Goldstrum
Blanket Flower	Gaillardia spp.	
Blueberry f	Vaccinium spp.	Bluecrop Blue Jay Jersey North Blue Northland
Bottlebrush	Callistemon citrinus	
Boxwood, Japanese		Japonica
Boxwood, Weller	Buxus sempervirens	
Broom	Cytisus spp. Genista pilosa	Moonlight Vancouver Gold
Bugle Carpet		
Camellia	Camellia japonica Camellia sasanqua	Debutante Mathotiana Supreme Chansonette
Candy Tuft	Iberis spp.	Snow White
Carex, Variegated	Carex	
Cedar, Red	Juniperus virginiana	
Celosia	Celosia spp.	
Centaura	Centaurea montana	Scarlet Plumosa



Cockscomb, Plumosa	Celosia cristata	Red Kewpie
Coleus	Coleus blumei	
Columbine	Aguilegia spp.	
Copper leaf	Acalypha wilkesiana	
Coreopsis	Coreopsis spp.	Moonbeam,
Corn Flower	Centaurea spp.	
Cotoneaster	Cotoneaster apiculatus	
Coyotebrush	Baccharis pilularis	
Cycads	Cycads revoluta	
Cypress, Bald	Taxodium distichum	
Cypress, Italian	Cupressus sempervirens	Glauca
Cypress, Japanese False	Chamaecyparis obtusa	Gracilis
Cypress, Leyland	Cupressocyparis leylandii	
Daffodil	Narcissus spp.	King Alfred
Daylilly	Hemerocallis spp.	Aztec Gold Bright Yellow (Hybrid) Single Gold (Evergreen) Wilsonis Yellow
Dianthus (Sweet William)	Dianthus spp.	
Delphinium	Delphinium spp.	Magic fountain
Dogwood	Comus florida	
Dogwood, American	Comus sericea	Flavarimaea
Douglas Fir	Pseudotsuga menziesii	
Dusty Miller	Senecio cineraria	
Elm, Drake	Ulmus parvifolia	
Euonymus	Euonymus fortunei	Argenteo-variegata Auereo-marginata Colorata Emerald Gaiety Emerald ëN Gold Gold Edge Gold Princess Silver King Tricolor Vegetus
Fan Palm, European	Chamaerops humilis	
Fan Palm, Mexican	Washingtonia robusta	
Fern (various)	Asparagus spp.	
Fescue	Festuca glauca	
Fetterbush	Leucothoe fontanesiana	Rainbow
Ficus	Ficus retusa	Nitidia
Fir Fraser	Abies fraseri	
Forsythia	Forsythia X intermedia Spring Glory	Amold Dwarf Bronxensis Dwarf Lynwood Gold Meadowlark Weeping
Fuchsia	Fuchsia spp.	
Galium	Galium ordoratum	
Gardenia	Gardenia jasminoides	Mystery Radicans
Geranium	Pelargonium X hortorum	
Gum	Eucalyptus citriodora	

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Hawthorn	Crataegus spp.	Cockspur White	
		Crimson Cloud	
		Enchantress	
İ		Jack Evans	
		Washington White	
Heather, Twisted	Erica cinerea	Mediterranean Pink	
Hemlock, Canada	Tsuga canadensis		
Hibiscus	Hibiscus spp.	Blue Bird	
i		Brilliant	
		Hula Girl	
Holly	llex spp.	Blue Boy	
		Blue Girl	
	llex X meserveae	Burfodii	
		China Girl	
		Compacta	
		Forsteri	
		Hellerie	
j		Japanese Northern Beauty	
		Needlepoint	
		Nellie R. Stevens	
	Ilex X attenuata	Savannah	
Holly, Chinese	llex comuta		
Holly, Japanese	llex crenata		
Holly, Yaupon	llex vomitoria		
Honeysuckle	Lonicera japonica	Claveyis Dwarf	
		Halliana	
		Tatarian Canadian White	
		Zebelli Red Hosta	
Hosta	Hosta spp.	Albo Marginata	
	Hosta lancifolia		
Ice Plant	Carpobrotus edulis		
Impatiens	Impatiens spp.		
iris	Iris spp.	Dwarf Blue	
		Wedgewood	
lvy, English	Hedera helix	Bulgaria	
		Thorndale	
Jasmine, Asian	Trachelospermum asiaticum		
Juniper	Juniperus spp.	Arcadia	
		Armstrong	
		Bar Harbor	
	Juniperus horizontalis	Blue Chip	
		Blue Pacific	
		Blue Rug	

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	tuning a to the second of	I Divis Stee	
Juniperus horizontalis		Blue Star	
		Broadmoor	
j	Buffalo Calgary Carpet		
J		Calgary Carpet Emerald Sea	
1	-	Emerald Spreader	
		Endora Compacta	
		Fruitlandi	
•		Green	
1		Gold Tip	
		Hetzi	
		Hughes	
		Manhattan Blue	
		Parsoni	
	Į.	Pfitzeriana	
}		Plumosa	
		Prince of Wales	
		Procumbens Dwarf	
		San Jose	
		Sargent Blue	
		Sargent Green	
		Scandia	
		Scopulorum Moonglow	
		Scopulorum Skyrocket	
1		Spartan	
	Juniperus chinensis	Tamariscifolia	
	Juniperus sabina	Weberi	
		Youngstown	
King Palm	Archontophoenix cunninghamiana	Yukon Belle	
Laurel, Australian	Pittosporum tobira		
Laurel, Mountain	Kalmia latifolia		
Leucothoe	Leucothoe fontanesiana		
Ligustrum, Japanese	Ligustrum japonicum		
Lily, African	Agapanthus africanus	Albus	
Lily, Allican	лувранино втовних	Peter Pan	
Lily African Rhus	· · · · · · · · · · · · · · · · · · ·	I ctel I all	
Lily, African Blue	Diario ignonico	NAL Eiro	
Lily of the Valley	Pieris japonica	Mt. Fire	
Lilyturf	Liriope muscari	Evergreen Glant	
		Lilac Beauty	
		Majestic	
		Monroe White	
		Variegata	
Liriope, Green	Liriope spicata		
Maple, Japanese	Acer japonicum		
Maple, Norway	Acer platanoides		
Maple, Red [†]	Acer rubrum		
Maple, Silver	Acer saccharinum		
Maple Sugar †	Acer saccharum		
Marigold	Tagetes patula	Honeycomb	
ivialiyuu	rayetes patura	Variegata	
		vancyala	
		Mhoolaria Dwarf	
Mark Orange #	Chile delahara	Wheeleris Dwarf	
Mock Orange ↑	Philadelphus spp	Golden	
	<u> </u>		
Mock Orange † Mondo Grass Moss Rose	Philadelphus spp Ophiopogon japonicus Portulaca grandiflora	Golden	

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Myrtle, Crape Lagerstroemia indica		Faurei
	_	Langer
		Muskogee
		Standard Pink
Myrtle, Wax	Myrica cerifera	
Nandina	Nandina domestica	Compacta
		Nana
Narcissus	Narcissus spp.	
Oak, Laurel	Quercus laurifolia	
Oak, Pîn	Quercus palustris	
Oak, Red	Quercus rubra	
Oak, Southern	Quercus virginiana	
Oak, Willow	Quercus phellos	
Oleander	Nerium oleander	Hardy Red
		Petite Pink
		Sister Agnes
Osteospermum	Osteospermum fruticosum	Wirligig
Pachysandra	Pachysandra terminalis	
Palm, Bangalow		
Pampas Grass	Cortaderia selloana	
Pansy	Viola x wittrockiana	
Paper Flower	Bougainvillea glabra	Barbara Karst
Peach †	Prunus persica	
Periwinkle, Dwarf	Vinca minor	
Petunia	Petunia X hybrida	Picoti
Photinia, Red Tip	Photinia X fraseri	
Pieris	Pieris japonica	
Pine, Australian	Pinus nigra	
Pine, Japanese Black	Pinus thunbergiana	
Pine, Loblolly	Pinus taeda	
Pine, Longleaf	Pinus palustris	
Pine, Mugo	Pinus mugho	
Pine, Scotch	Pinus sylvestris	
Pine, Slash	Pinus elliottii	
Pine, Swiss Mt.	Pinus mugo	
Pine, Virginia	Pinus virginiana	
Pine, White	Pinus strobus	
Pineapple, Guava [†]	Feijoa sellowiana	
Pieris	Pieris taiwanensis	
Pittosporum, Japan		
Potentilla	Potentilla nepalensis	Abbotswood
	Potentilla fruticosa	
Privet	Ligustrum japonicum	Golden Vicary
		Regal
		Texanum
		Wax
		Yellow Tipped
Privet, Glossy	Ligustrum lucidum	
Pyracantha	Pyracantha koidzumii	Gnome
		Lalandei
		Victory
Queen Palm	Arecastrum rammanzoffianum	
Quince, Japanese †		

Dhadadaadaa	Ob a de de de de de	Allerane
Rhododendron	Rhododendron spp	Album
		Cunningham White
		Fashion
))	Hardy
		PJM
		Purple Gem
		Silvery Pink
Rhododendron, Carolina	Rhododendron carolinianum	
Rhododendron, Catawba	Rhododendron catawbiense	
Rockcress	Arabis spp.	Snowcap
Rhodie Max (Rosebay)	Rhododendron maximum	
Rose †	Rosa banksiae	Luta .
Rosemary †	Rosmarinus officinalis	
Rosemary, Bog	Andromeda polifolia	Nana
Salvia	Salvia farinacea	Rhea
Sedum	Sedum spurium	Dragon Blood Red
	oodan opanam	Red Carpet
		Yellow
Snapdragon	Antimhinum spp.	Tenove
Sourwood	Oxydendrum arboreum	
Spiraea	Astilbe X arendsii	Fanall
Spiraea		Anthony Waterer Red
Spiraea	Spiraea spp.	Dolchica
		Froebeli Pink
į		, , , , , , , , , , , , , , , , , , , ,
]		Goldenflame Red
1	1	Snowmound White
		Van Houtte White
Spiraea, Garland	Spiraea spp.	
Spruce, Black Hills	Picea glauca	
Spruce, Colorado Blue	Picea pungens	
Spruce, Norway	Picea abies	
Spruce, White	Picea glauca	Conica
Sweetflag, Grassyy-Le		
, Sweetgum	Liquidambar styraciflua	
Sycamore	Platanus occidentalis	
Tree Fern (Tiki Fern)	Asparagus virgatus	V 2
Trumpet Flower, Evening	Gelsemium sempervirens	
Tulip	Tulip, spp	Apeldoorn
Verbena, Shrub	Lantana sellowiana	
Vervain	Verbena spp.	St. Paul
Viburnum	Vibumum spp.	American Cranberry Bush
		Arrowood
		Common Snowball
		European Cranberry Bush
		Linden
		Mohican
		Wright
Vinca (Periwinkle)	Vinca minor	AAUAUC
Windmill Palm	<u> </u>	
	Trachycarpus fortunei	
Xylosma	Xylosma congestum	
Yarrow	Achillea spp.	
Yaupon	llex vomitoria	Dwarf
Yew	Taxus cuspidata	Denisiformis
	Taxus X media	
† 6	nly: Do not use on Food Produ	·

[†]Ornamental species only: Do not use on Food Producing Trees and Ornamentals

Terms and Conditions of Use

If terms of the following Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies are not acceptable, return unopened package at once to the seller for a full refund of purchase price paid. Otherwise, use by the buyer or any other user constitutes acceptance of the terms under Warranty Disclaimer, Inherent Risks of Use and Limitations of Remedies.

Warranty Disclaimer

Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. Seller MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

Inherent Risks of Use

It is impossible to eliminate all risks associated with use of this product. Plant injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label, such as unfavorable temperature, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of the Seller. All such risks shall be assumed by buyer.

Limitation of Remedies

The exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories), shall be limited to, at Seller's election, one of the following:

- 1. Refund of purchase price paid by buyer or user for product bought, or
- Replacement of amount of product used

Seller shall not be liable for losses or damages resulting from handling or use of this product unless Seller is promptly notified of such loss or damage in writing. In no case shall Seller be liable for consequential or incidental damages or losses.

The terms of the Warranty Disclaimer and Inherent Risks of Use above and this Limitation of Remedies cannot be varied by any written or verbal statements or agreements. No employee or sales agent of Seller or the seller is authorized to vary or exceed the terms of the Warranty Disclaimer or this Limitation of Remedies in any manner.

*Trademark of Dow AgroSciences	LLC
EPA-accepted date://_	

[Front Panel of Bag]

(Logo) Dow AgroSciences

Crab-Buster* 0.22% FG

Lawnanie Omamenie Haiousie a

For selective control of crabgrass and control or suppression many other annual grass and broadleaf weeds in ornamental landscape areas, established lawns and ornamental turf.

- Not for use on turf being grown for sale or other commercial use as sod, or for commercial seed production, or for research purposes.
- Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes.
- For use on plants intended for aesthetic purposes or climatic modification and being grown in ornamental gardens or parks, or on golf courses or lawns.

In the state of New York, do not exceed 5.2 lb/1000 sq ft per year (equivalent to 0.5 pounds of active ingredient per acre). In Nassau and Suffolk Counties, do not exceed 2.6 lb/1000 sq ft per year (equivalent to 0.25 pounds of active per acre).

Active Ingredient

dithiopyr: 3,5- pyridinedicarbothioic acid,	
2-(difluoromethy!)- 4-(2-methylpropyl)-6-	
(trifluoromethyl)-S,S-dimethyl ester	0.22%
Inert Ingredients	<u>99.78%</u>
Total	100.00%

This product contains 0.11 pound of the active ingredient dithiopyr per 50 pound bag. Product protected by U.S. Patent No. 4,692,184. Other patents pending

Guaranteed Fertilizer Analysis: XX-XX-XX[†]

Water-Insoluble Nitrogen	XX%
Total Nitrogen (N)	XX%
Ammoniacal Nitrogen	XX%
Urea Nitrogen	XX%
Available Phosphoric Acid (P2O5)	XX%
Soluble Potash (K2O)	XX%
Magnesium (Mg)	XX%
Iron (Fe)	XX%
Manganese (Mn)	XX%

AGGEBTED with COMMENTS In EPA Letter Dated

MAR 2 4 2003

Under the Federal Insecticide, Fundicide, and Rodenticide Act as amended, for the posticide registered under EPA Rog. No.

Keep Out of Reach of Children

CAUTION

[Front Panel of Bag - Continued]

[†] This product may be formulated with one or more of the following fertilizer materials: sulfur coated urea, urea, methylene urea, ammonium phosphate, ammonium sulfate, diammonium phosphate, sulfate of potash, ferrous sulphate, manganese oxide, magnesium oxide, dolomite.



[Optional Label Claims]

- A Selective Herbicide Plus Fertilizer Combination Product that Provides Control of Crabgrass and many Other Weeds in Established Lawns and Ornamental Turfgrasses and Residential Landscapes.
- Premium Granular Fertilizer Providing the Nutrients Needed for Beautiful Healthy Lawn and Ornamentals.
- Contains Crab-Buster* Herbicide A Highly Effective Herbicide for Crabgrass Control! NON-STAINING!
- Can Be Applied Up to 4 Weeks Later Than Other Preemergence Crabgrass Preventers.
- This Bag Treats Up To____ Square Feet

Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION: Causes Eye Irritation • Harmful If Inhaled

Avoid contact with eyes or clothing. Avoid breathing dust. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. Prolonged of frequently repeated skin contact while handling this material may cause allergic reaction in some individuals.

First Aid

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, the give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor form further treatment advice.

Hot Line Number: Have the product container or label with you when calling a poison control cente: or doctor, or going for treatment. You may also contact 1-800-992-5994 day or night, for emergency treatment information.

Environmental Hazards

This product is toxic to fish and highly toxic to other aquatic organisms including oysters and shrimp. Use with care when applying to turf areas adjacent to any body of water. Drift and runoff from treated turf may adversely affect aquatic organisms in adjacent aquatic sites. 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 apply when weather conditions favor drift from treated areas. Do not contaminate water when disposing of equipment washwaters.

Refer to back/side panel of bag for Directions for Use including Storage and Disposal.

Notice: Read the entire label. Use only according to label directions. Before using this product, read Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies at end of Directions for Use. If terms are unacceptable, return at once unopened.

In case of emergency endangering health or the environment involving this product, call 1-800-992-5994.

Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.

EPA Reg. No. 62719-UOU

EPA Est. _____

*Trademark of Dow AgroSciences LLC
Dow AgroSciences LLC • Indianapolis, IN 46268 U.S.A.

Net Weight | lb

[Back Panel of Bag]

Directions for use

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

Storage and Disposal

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

Storage: Store this product only in its original container in a dry, cool, secured storage area.

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.

Empty Container Disposal: Do not reuse emptied bag. Completely empty bag into application equipment. Dispose of emptied bag (s) in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Spill: In case of spill, sweep up material and dispose of material according to "product disposal" directions listed above.

Use Directions for Turf

This turf fertilizer product, containing Crab-Buster* herbicide, can be applied up to 4 weeks later than other crabgrass preventers and provides up to 4 months of crabgrass control.

Crab-Buster 0.22% FG provides preemergence control of crabgrass and control or suppression of other listed weeds when applied prior to their germination. In addition, this product provides postemergence control of seedling crabgrass after germination and emergence. Postemergence control is limited to crabgrass only, but is effective up to 4 weeks after crabgrass has germinated. This generally corresponds to the time when crabgrass seedlings first become visible in the established turfgrass: *Po not apply this product later than 4 weeks after crabgrass germination.

Apply this product only to turfgrass species listed on this label. The following turfgrass species are tolerant to this product when applied as directed:

Cool-Season Grasses	Warm-Season Grasses
Bentgrass, creeping	Bahiagrass
Bluegrass, Kentucky	Bermudagrass
Fescue, fine	Buffalograss
Fescue, tall	Carpetgrass
Ryegrass, perennial	Centipedegrass
	St. Augustinegrass
	Zoysiagrass

Use Precautions for Turf

This product should be applied only to lawns and ornamental turfgrasses that are well established. For newly established lawns, initial application of this product should be made only after turfgrasses have developed a vigorous root system, uniform stand, and received at least two mowings following seeding, sodding, or sprigging. **Exception:** In newly established lawns of Kentucky bluegrass, perennial ryegrass and/or tall fescue, this product may be applied two weeks after the first sign of germination.

- Use of this product on lawns and ornamental turfgrasses that are not well established, or weakened by stress due to mechanical operations, pests, excessive temperatures, or lack of moisture may result in turfgrass injury.
- For best results, cultural practices that disturb the soil, such as core-, spike-, or hydro-aerification, and verticutting, should be done before application of this product. Do not apply this product until turfgrass has recovered from the mechanical injury caused by these cultural practices.
- Reseeding, Overseeding, or Sprigging: Reseeding, overseeding, or sprigging of areas treated with this product within 10 weeks after a single application of this product or within 16 weeks after a split application program totaling 5.2 lb/1000 sq ft (0.5 lb active ingredient per acre) or more may inhibit the establishment of desirable turfgrasses. When reseeding, overseeding follow proper cultural practices for seedbed preparation, seeding, irrigation and fertilization.

Other Use Precautions

- Do not use clippings from treated turf for mulching around vegetables or fruit trees.
- Do not allow people or pets to enter treated area until dust has settled.

Application Timing

Spring Application

Control of Crabgrass: Crab-Buster 0.22% FG provides preemergence control of crabgrass and control or suppression of other listed weeds when applied prior to their germination. In addition, this product provides postemergence control of seedling crabgrass after germination and emergence. Postemergence control is limited to crabgrass only and is effective up to 4 weeks after germination of crabgrass. This generally corresponds to the time when crabgrass seedlings are at the 3-leaf stage of growth and first become visible in the established turf. This product will not control crabgrass at later growth stages when crabgrass plants begin to tiller (spread). Properly timed applications will control existing crabgrass and prevent further emergence of crabgrass seedlings. Do not apply this product later than 4 weeks after crabgrass germination.

Control or Suppression of Other Grass and Broadleaf Weeds: For control or suppression of other grass and broadleaf weeds, this product must be applied as a preventative treatment prior to their germination and emergence. Only crabgrass will be controlled with applications made up to 4 weeks after weed germination.

Fall Application

This product can also be applied from late summer through early fall (late August through November). When applied in the fall, a sequential or second application of this product must be made the following spring to provide season-long control of crabgrass. If this product is applied in the fall, **do not** reseed, overseed or sprig turfgrasses within 12 weeks after application.

Tips for Improved Weed Control

- For best results, apply this product within a few days after mowing and delay mowing again for a few days after the application.
- The turf herbicide and fertilizer components in this product are not effective until activated by rainfall or irrigation. Performance is improved if application is followed by 1/2 inch of rainfall or sprinkler irrigation. Erratic weed control may result if not activated by rainfall or irrigation within 30 days after application.

Weeds Controlled or Suppressed

Crab-Buster 0.22% FG will provide control of crabgrass and control or suppression of other listed grass and broadleaf weeds when applied prior their germination.

Grasses barley barnyardgrass bluegrass, annual brome crabgrass, large crabgrass, smooth crabgrass, Southern crowfootgrass † dallisgrass goosegrass foxtail, green foxtail, yellow kikuyugrass † oats, wild ryegrass (annual & perennial) sandbur smutgrass	bittercress† carpetweed chickweed† geranium, Carolina† henbit knotweed, prostrate lespedeza, common† marestail medic, black mustard oxalis, buttercup pineappleweed pigweed, redroot parsley-piert† purslane, common rocket, London shepherdspurse speedwell, corn† spurge, garden spurge, prostrate spurge, spotted woodsorrel, creeping woodsorrel, yellow
	, ,

[†]Suppression only

Length of Control

Crab-Buster 0.22% FG will provide up to 4 months of crabgrass control when applied according to label directions. The actual length of control will vary depending on use rate, weather conditions, condition of the turfgrass, intensity of weed pressure, and the location or "Region" within the United States where this product is being applied. Refer to the map below to determine the region of the U.S. that includes your location. Use the table below to determine the amount of Crab-Buster 0.22% FG to apply in your location based on the desired length of weed control or need for postemergence crabgrass control.

Use "Regions" within the United States:



Recommended Use Rates

Amount of Crab-Buster 0.22% FG to Apply (Pounds of product to apply per 1,000 square feet of turfgrass †)			
Length of Crabgrass Control			Control
Region of U.S.	2 - 3 months	3 - 4 months	Early Postemergence Control
North	1.3 lb/1000 sq ft (0.128 lb ai/acre)	1.8 lb/1000 sq ft (0.174 lb ai/acre)	2.3 - 5.2 lb/1000 sq ft ^{+†} (0.22 - 0.5 lb ai/acre)
South	2.0 lb/1000 sq ft (0.192 lb ai/acre)	2.3 - 2.7 lb/1000 sq ft ^{+†} (0.22-0.256 lb ai./acre)	2.3 - 5.2 lb/1000 sq ft ^{††} (0.22 - 0.5 lb ai/acre)

^{† 1,000} square feet equals an area 100 feet X 10 feet or square area of about 32 feet on a side. 👶

Maximum Application Rates:

- Do not apply more than 5.2 lb of this product per 1,000 sq ft per application and no more than 15.6 lb of this product/1000 sq ft per year (equivalent to 0.5 and 1.5 lb of active ingredient per acre, respectively).
- In the state of New York, do not exceed 5.2 lb of this product per 1000 sq ft per year (0.5 lb active ingredient per acre). In Nassau and Suffolk Counties, do not exceed 2.6 lb of this product per 1000 sq ft per year (0.25 lb active ingredient per acre)

Application Instructions and Equipment

This product may be applied with drop or rotary-type spreaders designed to apply granular herbicides. For best results, apply this product evenly and uniformly avoiding streaking, skips or overlaps. Avoid the use of spreaders that tend to apply granules in narrow rows or concentrated bands. Calibrate the spreader according to the manufacturer's directions. Initial spreader settings may require adjustment to deliver the recommended application rate under actual application conditions. The desired calibration setting may be marked or recorded for future reference. Apply this product uniformly over the treatment area. More uniformity of application can usually be achieved by applying one-half of the required amount of product over the treatment area and then applying the remaining one-half in a different direction (e.g., at a right angle to the previous direction). Avoid streaking, skips, or overlaps during application.

Check equipment frequently to verify calibration and proper functioning.

[Editor's note: Supplemental Distributor may add a table listing recommended application equipment and calibration settings.]

^{††}Use the higher rate in rate range in areas of high weed pressure or for increased length of control.



Brand and Model of Spreader	Calibration Settings at Specified Rate (lb/1000 sq ft)					
	1.3	1.8-	2.0	2.3	2.7	5.2
XXXXXXX	XX	XX	XX	XX	XX	
		[ĺ	[ĺ

Use Directions for Landscape Ornamentals

Crab-Buster 0.22% FG provides preemergence control or suppression of listed annual grass and broadleaf weeds in plantings of ornamental plants listed on this label. For application instructions and equipment, see Application Instructions and Equipment section above.

Use Rates

Apply Crab-Buster 0.22% FG Lawn and Ornamental Herbicide with a properly calibrated spreader or other means that will assure uniform distribution. This product may be applied as a single application or as a split application. Split or sequential applications may be used to provide improved weed control or to provide extended weed control in areas with long growing seasons. To make a split application, divide the rate in the following table into separate applications made 5-10 weeks apart. Sequential applications may be made in the late summer following a spring application or in the spring after a fall application, provided the maximum application rates per year given below are not exceeded.

Pounds of Product per	Ounces of Product per
1000 Square Feet*	100 Square Feet †
5.2	0.52 (8.3 oz)

[†]Rate based on an area of 100 sq ft for treatment of small areas.

Maximum Application Rates:

- **Do not** apply more than 5.2 lb of this product per 1,000 sq ft per application and no more than 15.6 lb of this product/1000 sq ft per year (equivalent to 0.5 and 1.5 lb of active ingredient per acre, respectively).
- In the state of New York, do not exceed 5.2 lb of this product per 1000 sq ft per year (0.5 lb active ingredient per acre). In Nassau and Suffolk Counties, do not exceed 2.6 lb of this product per 1000 sq ft per year (0.25 lb active ingredient per acre)

Application Timing and Recommendations

Crab-Buster 0.22% FG is a preemergence herbicide that will not control established weeds. Make applications prior to weed seed germination. Bare ground or mulched areas may be treated. The best weed control is obtained when applied to soil that is free of clods, weeds and debris such as leaves. Prior to making an application, control existing vegetation by hand weeding, cultivation or with a postemergence herbicide. Avoid disturbance of treated areas. Loss of weed control may result if the treated soil surface is disturbed by soil mixing or tillage.

Use Precautions

Apply this product only to established ornamentals.



- Do not apply this product directly to bare roots of ornamental plants as injury may result.
- **Do not** incorporate this product into soil. Dilution of active ingredient and possible injury to plant roots may occur.
- **Do not** apply to soil around ornamental plants that are under stress due to drought, flooding, excessive fertilizer or soil salts, wind injury, hail, frost damage, winter injury, injury from previously applied pesticides or injury due to insects, nematodes or disease.
- To avoid foliar damage to ornamentals, irrigate immediately after application to remove herbicide particles from the foliage.
- Do not apply under conditions that would affect product distribution. Wind could affect distribution and move product onto sensitive species. Uneven product distribution will result in uneven weed control.

Weeds Controlled or Suppressed

Used as directed, Crab-Buster 0.22% FG will control crabgrass and control or suppress other listed grass and broadleaf weeds when applied prior to their germination. **Refer to "Use Directions for Turf" section above for a complete listing of weeds controlled or suppressed.** This product will not control established broadleaf weeds or grasses, except for crabgrass in early stages of development. The area to be treated should be free of weeds prior to application.

Tolerant Ornamentals

The ornamentals listed below have shown tolerance to this product when applied according to label directions. However, this product has not been tested on all ornamental species, all cultivars of species on this label, or under all possible growing conditions. For species or cultivars not listed, it is recommended that a few plants in a limited area be treated and observed for tolerance under local growing conditions prior to large-scale use.

Common Name	Botanical Name	Tolerant Cultivar	3
Abelia, Dwarf	Abelia X grandiflora	Nana	*****
Ajuga	Ajuga reptans Ajuga genevensis	Bronze Bronze Beauty	****
Almond, Flowering	Prunus gladulosa		
Apple †	Malus pumila		
Arborvitae	Thuja occidentalis	Nigra Pyramidalis Smaragh Techny Woodwardii	
Arborvitae, Golden	Thuja orientalis		
Aster, Chinese	Callistephus chinensis	Dwarf Queen	
Ash, Green	Fraxinus pennsylvanica		
Ash, Mountain	Sorbus aucuparia		
Ash, Purple	Fraxinus americana		

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Azalea	Rhododendron spp.	Brilliant
Azalea	Knododendron spp.	Buccaneer
		
		Carror
		Chimes (Belgian)
		Elsie Lee
1	1	Exbury
1		Fashion
		Hardijzer Beauty
		Hershey Red
		Higasa
ľ	1	Hinocrimson
		Holland (Hybrid)
1		, , ,
i		Marion Lee
1		Northern Lights
		Orange Cup
	1	Orchid Lights
		Snow
		Southern Charm
Azalea, Flame	Rhododendron calendulaceum	
Azalea, Kirishima	- Internation outside and outs	
Bamboo, Heavenly		
Barberry	Berberis thunbergii	Aurea
	= 3.20.10 11.001.001.001	Dwarf Pigmy
		Green
		Kobold
		1
1		Pygmy Red
		Rose Glow
Barberry, Purple		Atropurpurea
Basket flower	Gaillardia grandiflora	
Bearberry (common)	Arctostaphylos uva-ursi	Massachusetts
Bee Balm	Monarda didyma	
Begonia	Begonia spp.	
Birch, River	Betula nigra	
Blackeyed Susan	Rudbeckia hirta	Goldstrum
Blanket Flower	Gaillardia spp.	
Blueberry †	Vaccinium spp.	Bluecrop
		Blue Jay
		Jersey
		North Blue
		Northland
Bottlebrush	Callistemon citrinus	Nothinaliu
	Callisterion citinus	
Boxwood, Japanese	B	Japonica
Boxwood, Weller	Buxus sempervirens	
Broom	Cytisus spp.	Moonlight _
	Genista pilosa	Vancouver Gold
Bugle Carpet		
Camellia	Camellia japonica	Debutante
	1	Mathotiana Supreme
		Chansonette
	Camellia sasangua	
Candy Tuft	Iberis spp.	Snow White
Carex, Variegated	Carex	
Cedar, Red	Juniperus virginiana	
Celosia	Celosia spp.	Scarlet Plumosa
Centaura	Centaurea montana	Scarlet Plumosa
		Scarlet Plumosa Red Kewpie

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Columbine	Aguilegia spp.	
Copper leaf	Acalypha wilkesiana	
Coreopsis	Coreopsis spp.	Moonbeam,
Corn Flower	Centaurea spp.	
Cotoneaster	Cotoneaster apiculatus	
Coyotebrush	Baccharis pilularis	
Cycads	Cycas revoluta	
Cypress, Bald	Taxodium distichum	
Cypress, Italian	Cupressus sempervirens	Glauca
Cypress, Japanese False	Chamaecyparis obtusa	Gracilis
Cypress, Leyland	Cupressocyparis leylandii	
Daffodil	Narcissus spp.	King Alfred
Daylilly	Hemerocallis spp.	Aztec Gold
• •		Bright Yellow (Hybrid)
		Single Gold (Evergreen)
		Wilsonis Yellow
Dianthus (Sweet William)	Dianthus spp.	
Delphinium	Delphinium spp.	Magic fountain
Dogwood	Comus florida	
Dogwood, American	Comus sericea	Flavarimaea
Douglas Fir	Pseudotsuga menziesii	
Dusty Miller	Senecio cineraria	
Elm, Drake	Ulmus parvifolia	_
Euonymus	Euonymus fortunei	Argenteo-variegata
	,	Auereo-marginata
		Colorata
		Emerald Gaiety
		Emerald ëN Gold
		Gold Edge
		Gold Princess
		Silver King
		Tricolor
		Vegetus
Fan Palm, European	Chamaerops humilis	
Fan Palm, Mexican	Washingtonia robusta	
Fern (various)	Asparagus spp.	
Fescue	Festuca glauca	
Fetterbush	Leucothoe fontanesiana	Rainbow
Ficus	Ficus retusa	Nitidia
Fir Fraser	Abies fraseri	
Forsythia	Forsythia X intermedia	Arnold Dwarf
		Bronxensis Dwarf
		Lynwood Gold
		Meadowlark
	Spring Glory	Weeping
Fuchsia	Fuchsia spp.	
Galium	Galium ordoratum	
Gardenia	Gardenia jasminoides	Mystery
•	, ,	Radicans
Geranium	Pelargonium X hortorum	
	Eucalyptus citriodora	
Gum		4
Hawthorn	Crataegus spp.	Cockspur White
	Crataegus spp.	Cockspur White Crimson Cloud
	Crataegus spp.	
	Crataegus spp.	Crimson Cloud

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Heather, Twisted	Erica cinerea	Mediterranean Pink
Hemlock, Canada	Tsuga canadensis	
Hibiscus	Hibiscus spp.	Blue Bird
j		Brilliant
		Hula Girl
Holly	llex spp.	Blue Boy
ł		Blue Girl
	llex X meserveae	Burfodii
		China Girl
ſ		Compacta
ł		Forsteri
		Hellerie
		Japanese Northern Beauty
		Needlepoint
1		Nellie R. Stevens
	llex X attenuata	Savannah
Holly, Chinese	llex comuta	
Holly, Japanese	llex crenata	
Holly, Yaupon	llex vomitoria	
Honeysuckle	Lonicera japonica	Claveyis Dwarf
[Halliana
		Tatarian Canadian White
		Zebelli Red Hosta
Hosta	Hosta spp.	Albo Marginata
	Hosta lancifolia	•
ice Plant	Carpobrotus edulis	
Impatiens	Impatiens spp.	
Iris	Iris spp.	Dwarf Blue
		Wedgewood
lvy, English	Hedera helix	Bulgaria
		Thorndale
Jasmine, Asian	Trachelospermum asiaticum	• (
Juniper	Juniperus spp.	Arcadia
	}	Armstrong
		Bar Harbor
	Juniperus horizontalis	Blue Chip
l		Blue Pacific
		Blue Rug

Juniperus horizontalis Biue Star Broadmoor Buffalo Calgary Carpet Emerald Sea Emerald Spreader Endora Compacta Fruitlandi	
Buffalo Calgary Carpet Emerald Sea Emerald Spreader Endora Compacta Fruitlandi	
Calgary Carpet Emerald Sea Emerald Spreader Endora Compacta Fruitlandi	
Emerald Sea Emerald Spreader Endora Compacta Fruitlandi	
Emerald Spreader Endora Compacta Fruitlandi	
Endora Compacta Fruitlandi	
Fruitlandi	
[, , <u>—</u> , , — , — , — , — , — , — , — , — , —	
l Green	!
Gold Tip	
Hetzi	
Hughes	
Manhattan Blue	
Parsoni	
Pfitzeriana	ı
Plumosa	
Prince of Wales	
Procumbens Dwarf	
San Jose	
Sargent Blue	
Sargent Green	
Scandia	
Scopulorum Moongio	
Scopulorum Skyrocke	et i
Spartan Spartan	
Juniperus chinensis Tamariscifolia	
Juniperus sabina Weberi	
Youngstown	
Yukon Belle	
King Palm Archontophoenix cunninghamiana	
Laurel, Australian Pittosporum tobira	
Laurel, Mountain Kalmia latifolia	****
Leucothoe Leucothoe fontanesiana	• •
Ligustrum, Japanese Ligustrum japonicum	****
Lily, African Agapanthus africanus Albus	• • • • •
Peter Pan	• • • • •
Lily, African Blue	
Lily of the Valley Pieris japonica Mt. Fire	*****
Lilyturf Liriope muscari Evergreen Giant	ļ
Lilac Beauty	
Majestic Monroe White	
Variegata	
Liriope, Green Liriope spicata	
Maple, Japanese Acer japonicum	
The state of the s	
Maple, Silver Acer saccharinum	
Maple Sugar † Acer saccharum	
Marigold Tagetes patula Honeycomb	
Variegata	ļ
Wheeleris Dwarf	
Mock Orange † Philadelphus spp Golden	
Snowflake Double Wh	nite
Mondo Grass Ophiopogon japonicus	
Moss Rose Portulaca grandiflora Sunnyside	

Martin Comme		
Myrtle, Crape	Lagerstroemia indica	Faurei
		Langer
}		Muskogee
		Standard Pink
Myrtle, Wax	Myrica cerifera	
Nandina	Nandina domestica	Compacta
Ĺ		Nana
Narcissus	Narcissus spp.	
Oak, Laurel	Quercus laurifolia	
Oak, Pin	Quercus palustris	
Oak, Red	Quercus rubra	
Oak, Southern	Quercus virginiana	
Oak, Willow	Quercus phellos	
Oleander	Nerium oleander	Hardy Red
1		Petite Pink
		Sister Agnes
Osteospermum	Osteospermum fruticosum	Wirligig
Pachysandra	Pachysandra terminalis	
Palm, Bangalow		
Pampas Grass	Cortaderia selloana	
Pansy	Viola x wittrockiana	
Paper Flower	Bougainvillea glabra	Barbara Karst
Peach †	Prunus persica	
Periwinkle, Dwarf	Vinca minor	
Petunia	Petunia X hybrida	Picoti
Photinia, Red Tip	Photinia X fraseri	
Pieris	Pieris japonica	
Pine, Australian	Pinus nigra	
Pine, Japanese Black	Pinus thunbergiana	
Pine, Loblolly	Pinus taeda	
Pine, Longleaf	Pinus palustris	1 7 - 1 - 2
Pine, Mugo	Pinus mugho	
Pine, Scotch	Pinus sylvestris	* .
Pine, Slash	Pinus elliottii	
Pine, Swiss Mt.	Pinus mugo	
Pine, Virginia	Pinus virginiana	
Pine, White	Pinus strobus	
Pineapple, Guava †	Feijoa sellowiana	
Pieris	Pieris taiwanensis	
Pittosporum, Japan	Tions tarranonals	
Potentilla	Potentilla nepalensis	Abbotswood
- Oterrana	Potentilla fruticosa	ADDOISHOOD
Privet	Ligustrum japonicum	Golden Vicary
,,,,,	angus i i i i japo i i i sami	Regal
		Texanum
		Wax
		Yellow Tipped
Privet, Glossy	Ligustrum lucidum	
Pyracantha	Pyracantha koidzumii	Gnome
	,	Lalandei
		Victory
Queen Palm	Arecastrum rammanzoffianum	
Quince, Japanese T	1170	
		and the second s

Rhododendron, Carolina Rhododendron, Catawba Rockcress Rhodie Max (Rosebay) Rose †	Rhododendron spp Rhododendron carolinianum Rhododendron catawbiense Arabis spp. Rhododendron maximum Rosa banksiae	Album Cunningham White Fashion Hardy PJM Purple Gem Silvery Pink Snowcap Luta
Rosemary †	Rosmarinus officinalis	
Rosemary, Bog	Andromeda polifolia	Nana
Salvia	Salvia farinacea	Rhea
Sedum	Sedum spurium	Dragon Blood Red Red Carpet Yellow
Snapdragon	Antirrhinum spp.	
Sourwood	Oxydendrum arboreum	
Spiraea	Astilbe X arendsii	Fanall
Spiraea	Spiraea spp.	Anthony Waterer Red Dolchica Froebeli Pink Goldenflame Red Snowmound White Van Houtte White
Spiraea, Garland	Spiraea spp.	
Spruce, Black Hills	Picea glauca	
Spruce, Colorado Blue	Picea pungens	
Spruce, Norway	Picea abies	* * * * * *
Spruce, White	Picea glauca	Conica
Sweetflag, Grassyy-Le		3 m y 1 d 4
Sweetgum	Liquidambar styraciflua	
Sycamore	Platanus occidentalis	• 4 4 1 7
Tree Fern (Tiki Fern)	Asparagus virgatus	•
Trumpet Flower, Evening	Gelsemium sempervirens	
Tulip	Tulip, spp	Apeldoorn
Verbena, Shrub	Lantana sellowiana	
Vervain	Verbena spp.	St. Paul
Viburnum	Vibumum spp.	American Cranberry Bush Arrowood Common Snowball European Cranberry Bush Linden Mohican Wright
Vinca (Periwinkle)	Vinca minor	
Windmill Palm	Trachycarpus fortunei	
Xylosma	Xylosma congestum	
Yarrow	Achillea spp.	
Yaupon	llex vomitoria	Dwarf
Yew	Taxus cuspidata Taxus X media	Denisiformis

[†]Ornamental species only: Do not use on Food Producing Trees and Ornamentals

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