

FreeHand® 1.75G Herbicide

 **BASF**
The Chemical Company

Breakthrough Broad-Spectrum Control

FreeHand® 1.75G herbicide offers the landscape manager and ornamental grower a new tool for preemergence weed control of annual grasses, susceptible sedge species and many small-seeded broadleaf weeds. Introducing dimethenamid-P, a partner for pendimethalin and a new active ingredient for use in ornamentals.

- A non-burning herbicide combination product for broad-spectrum weed control
- Flexibility of rate, 2.3-4.6 lbs./1,000 sq. ft. when used across a wide number of weed species
- Excellent residual control in landscape beds, that stops weeds as they germinate
- Wide range of plant species tolerance and use sites
- Excellent particle distribution and formulation granular ballistics for spreading

Grasses, Broadleaf and Sedge Species Controlled

All the benefits of the dimethenamid-P active ingredient combined with the strengths of pendimethalin result in control of species not previously observed when delivered in one product.

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|-------------------------|----------------------|----------------------------|
| • American burnweed* | • Doveweed | • Pearlwort* |
| • Annual bluegrass | • Eclipta | • Pepperweed* |
| • Annual kyllinga spp.* | • Foxtail | • Phyllanthus* |
| • Barnyardgrass | • Goosegrass | • Purslane |
| • Crabgrass spp. | • Henbit | • Rice flatsedge |
| • Dogfennel* | • Italian ryegrass | • Shepherdspurse |
| | • Lambsquarters spp. | • Smartweed spp. |
| | • Liverwort* | • Spurge spp. |
| | • Mayweed chamomile | • Willowherb spp. |
| | • Nightshade spp. | • Woodsorrel (Oxalis spp.) |
| | • Panicum spp. | • Yellow nutsedge |

Weeds listed above can be controlled when **FreeHand 1.75G** is applied at rate ranges of 2.3-4.6 lbs./1,000 sq. ft. as listed on the product label. Higher rates will control a greater number of species and provide longer residual per application.

*Not controlled in California.



Use Sites:

- Landscape Ornamentals in Maintained Areas (Residential and Commercial)
- General Grounds Maintenance in Specified Noncrop Areas
- Container, Liner and Field Commercial Nurseries
- Christmas Trees and Other Forest Tree Nurseries

Formulation: 1.75G (Granular)

Provides 0.75% dimethenamid-P and 1% pendimethalin

Packaging: 37.5 lb. and 50 lb. bags

Active Ingredient: Dimethenamid-P and pendimethalin

Chemical Family: Combines Chemical Group 15, chloroacetamide herbicide, with Group 3, dinitroaniline herbicide

Mode of Action: The two active ingredients combined inhibit cell growth in both seedling shoots and plant cell microtubule assembly, preventing roots of susceptible weed species from growing and multiplying.

Behavior in Plant: Root and shoot absorbed with coleoptile absorption in highly sensitive grass, sedge and broadleaf species.

Use Rates:

- 2.3-4.6 lbs./1,000 sq. ft. in ornamental landscape or general maintenance areas
- 100, 150 and 200 lbs./A for commercial ornamental production

Control Symptoms: Emerging grass and sedge shoots and broadleaf shoots and roots controlling susceptible weeds as they germinate.

Signal Word: CAUTION

REI: 24 hours for production ornamentals

PPE: Long-sleeved shirt and long pants; chemical-resistant gloves made of any waterproof materials; shoes and socks; protective eyewear

FREEHAND®
1.75G HERBICIDE

Keys to Success

- Uniform coverage prior to weed germination and emergence insures optimal weed control.
- **Application to dry foliage is recommended.**
- Efficacy will be improved if application is followed by one-half inch of irrigation or equivalent in rainfall.
- Use lowest label rate and avoid overlap on identified sensitive plant species or as stated on label.

The following plant species have been injured by applications of FreeHand 1.75G: Black-eyed Susan, Blue Fescue, Purple Coneflower, Feather Reed Grass and Leadwort.

To avoid weed shifts and development of hard-to-control species, use this product in rotation with other ornamental registered products for landscape and nursery uses. Practice good product stewardship and resistance weed management. However, if desired, a sequential application of **FreeHand 1.75G** can be applied following 8 weeks, with no greater than 4.6 lbs./1,000 sq. ft. of product at any application. Do not exceed 9.18 lbs./1,000 sq. ft. of **FreeHand 1.75G** during the growing season. *See label for specific restrictions and always read and follow label directions.*

FREEHAND 1.75G HERBICIDE WEED CONTROL AS COMPARED TO INDUSTRY STANDARDS*

PREEMERGENCE HERBICIDE PERFORMANCE	FreeHand	Snapshot®	OH2 [†]	Rout®	BroadStar™ [†]	Pennant MAGNUM®
	Crabgrass	G	G	G	G	F-G
Goosegrass	G	G	NR	G	F-G	F
Bittercress	G	F-G	G	G	G	F
Eclipta	G	P-F	F	NR	F	NR
N. Willowherb	G	P	P	G	NR	NR
Chickweed spp.	G	G	F-G	F-G	F	P
Spurge spp.	G	F-G	F-G	G	G	NR
Doveweed	G	NR	NR	NR	G	NR
Sedges**	G	NR	NR	NR	NR	G

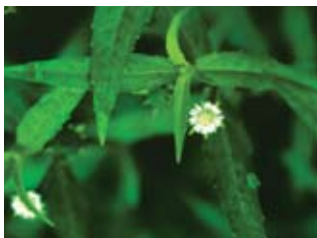
G=Good (80-100% control);
 F=Fair (50-80% control);
 P=Poor (0-50% control);
 NR=Not Registered or herbicide not labeled for this species
FreeHand 1.75G
 (dimethenamid-P+pendimethalin);
 Snapshot (isoxaben+trifluralin);
 OH2 (oxyfluorfen+pendimethalin);
 Rout (oxyfluorfen+oryzalin);
 Broadstar (flumioxazin);
 Pennant MAGNUM (s-metolachlor)

* Ratings for competitive products extracted with permission from Neal (North Carolina State University) and Derr (Virginia Tech University) Weeds of Container Nurseries in the US publication; 2005, North Carolina Nurserymen Association, Inc. Ratings for **FreeHand 1.75G** based on trials conducted 2004-2008 by BASF and university experts and based on G=80% or better control.

** Rice flatsedge, yellow nutsedge and annual kyllinga spp.

† OH2 and BroadStar are not registered for landscape ornamentals.

Photos courtesy of invasive.org



Eclipta



Crabgrass



Yellow Nutsedge



Oxalis

Always read and follow label directions.

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