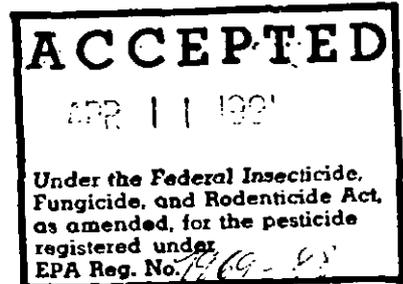


Vantage™

**For use in fine fescue (creeping red,
Chewings, hard) grown for turf seed.**

**Active ingredient**

2-[1-(ethoxyimino)butyl]-5-[2-(ethylthio)
propyl]-3-hydroxy-2-cyclohexen-1-one*

Inert ingredients

Total

*Equivalent to 1.0 pound per gallon

13%
87%
100%

EPA Reg. No. 7969-88

KEEP OUT OF REACH OF CHILDREN.

CAUTION

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

Statement of practical treatment

If swallowed: DO NOT INDUCE VOMITING. Drink promptly a large quantity of milk, egg whites, gelatin solution or, if these are not available, large quantities of water. Avoid alcohol.

If inhaled: Move to fresh air. Aid in breathing, if necessary, and get medical attention.

If in eyes: Immediately flush eyes with running water for at least 15 minutes. Call a physician if irritation persists.

If on skin: Wash with plenty of soap and water. Remove and launder contaminated clothing before re-using. If irritation develops, get medical attention.

All applicable directions, restrictions, precautions and Conditions of sale and warranty on the EPA-registered label are to be followed. This labeling must be in the possession of the user at the time of herbicide application.

Re-entry Statement: Do not allow people or pets to come into contact with treated areas until sprays have dried.

Environmental hazards

Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of washwaters.

Endangered species concerns

The use of any pesticide in a manner that may kill or otherwise harm an endangered or threatened species or adversely modify their habitat is a violation of Federal law.

Direction for use

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

BASF

General information

Vantage™ herbicide is a selective broad spectrum postemergence herbicide for control of annual and perennial grass weeds in fine fescue. **Vantage** does not control broadleaf weeds or sedges. The fine fescues tolerant to **Vantage** at all stages of growth are creeping red (*Festuca rubra*), Chewings (*Festuca rubra*) and hard fescue (*Festuca ovina*). Tall fescue (*Festuca arundinacea*) is NOT tolerant to **Vantage**.

For control of annual ryegrass, downy brome, German velvetgrass and Colonial and Highland bentgrasses in the Pacific Northwest, apply **Vantage** when the fine fescue is semi-dormant, which is generally from November 1 through March 15 (see **Application Rate Table for Pacific Northwest Only**). Application of **Vantage** at other times of the year will generally result in reduced control of these problem grass weeds. For grass control in other Northern climates, see **Application Rate Table for Annual Grass Control** or **Application Rate Table for Perennial Grass Control**.

Since all grass crops such as sorghum, corn, small grains, and rice, as well as ornamental grasses such as turf (except creeping red, Chewings and hard fescue), are extremely susceptible to **Vantage**, avoid all direct or indirect contact with any desired grass plant.

Weed control symptoms:

Vantage rapidly enters the plant through the foliage and translocates throughout the plant. Control symptoms exhibited by the grass weed progress from a slowing or stopping of growth, to leaf tip burn, and to reddening of the foliage. Subsequently, burn back of the foliage occurs.

Water volume and spray pressure

Thorough spray coverage of foliage is essential.

Application Rate Table for Vantage (Pacific Northwest Only)

Grass Species	Application Time (weed size)	Rate of Vantage* per Acre
Annual grasses Annual Ryegrass (<i>Lolium multiflorum</i>)	4-8"	2 1/4 pts
Downy Brome (<i>Bromus tectorum</i>) also called cheatgrass)	2-6"	3 3/4 pts.
Perennial grasses German Velvetgrass (<i>Holcus mollis</i>)	2-4"	3-3 3/4 pts
Colonial and Highland Bentgrasses (<i>Agrostis tenuis</i>)	2-4"	2 1/4-3 3/4 pts.
The higher rate of Vantage is recommended for use on well established grass weeds.		
*If regrowth occurs or new plants emerge, make a second application at the same rate and time.		

Application Rate Table for Annual Grass Control (Other than Pacific Northwest)

Grass Species	Rate of Vantage	
	Grass up to 6" height	Grass up to 12" height
Barnyardgrass Broadleaf Signalgrass Crabgrass Large Smooth Foxtails Giant Green Yellow Goosegrass Johnsongrass, Seedling Junglerice Lovegrass Orchardgrass, Seedling Panicum Fall Texas Red Sprangletop* Ryegrass, Annual Shattercane/Wildcane Tall Fescue, Seedling Wild Proso Millet Witchgrass Woolly Cupgrass	2 1/4 pints/Acre or 0.8 Fl Oz./1000 Sq Ft	3 3/4 pints/Acre or 1.4 Fl Oz./1000 Sq Ft.
*Not recommended in CA, AZ, or Western NM.		

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Ground equipment: Use a minimum of 10 gallons of water per acre with a minimum of 40 psi pressure at the nozzle. Increase water volume to 20 gallons per acre and increase pressure to a minimum of 60 psi if grass foliage is dense.

Air equipment: Use a minimum of 5 gallons per acre (except 10 gallons if foliage is dense) and a maximum of 40 psi pressure.

Use standard high pressure pesticide hollow cone or flat fan nozzles. Do not use flood or whirl chamber nozzles.

Do not use selective application equipment such as recirculating sprayers, wiper applicators or shielded applicators.

Application Rate Table for Perennial Grass Control (Other than Pacific Northwest)

Grass	Application Time (weed size)	Rate of Vantage per Acre	Rate of Vantage per Acre or 1000 Sq. Ft.
Bermudagrass	Up to 6" runners	3 3/4 pints	1.4 Fl. Oz.
Johnsongrass, Rhizome	15-20" height		
Quackgrass	6-8" height		
Wirestem Muhly	Up to 6" height	2 1/4 pints	0.8 Fl. Oz.

ATTENTION: Sprayer cleaning
Clean sprayer thoroughly after application of Vantage.

Failure to clean sprayer thoroughly may result in injury to any grass crop subsequently sprayed, such as corn, sorghum, small grains, rice, turf and grasses susceptible to **Vantage** for seed production. Fill the sprayer with clean water and add a commercial sprayer cleaner or a surfactant/adjuvant at the recommended rate on its label. Circulate through entire sprayer system. Spray approximately half the tank solution through the hoses, booms and nozzles to clean these parts. Drain the tank and rinse the total system thoroughly several times with clean water.

Restrictions and limitations

DO NOT graze treated fields and do not feed treated fescue screenings or hay to livestock.

DO NOT apply if rainfall is expected within one hour following application as grass control will be unsatisfactory.

DO NOT mix or apply **Vantage** with any other pesticide, additive, or fertilizer except as specifically recommended on this labeling.

Vantage does not control annual bluegrass (*Poa annua*) or rattail fescue (*Festuca myuros*).

Apply **Vantage** only to fine fescue varieties classified as creeping red, Chewings or hard fescue.

DO NOT apply **Vantage** to tall fescue (*Festuca arundinacea*) because injury will occur.

DO NOT apply **Vantage** through any type of irrigation system.

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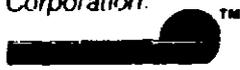
Conditions of sale and warranty

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 use of the product in a manner inconsistent with its labeling, all of which are beyond the control of BASF CORPORATION ("BASF") or the Seller. All such risks shall be assumed by the Buyer.

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PO Box 13528
Research Triangle Park, NC 27709

BASF

Vantage™

Herbicide

For use on centipedegrass and fine fescue in turf, lawns and rights-of-way.

Active ingredient

2-[1-(ethoxyimino)butyl]-5-[2-(ethylthio)propyl]-3-hydroxy-2-cyclohexen-1-one13%

Inert ingredients87%

Total100%

*Equivalent to 1.0 pound per gallon

EPA Reg. No. 7969-88

All applicable directions, restrictions, precautions and Conditions of sale and warranty on the EPA-registered label are to be followed. This labeling must be in the possession of the user at the time of herbicide application.

Re-entry Statement: Do not allow people or pets to come into contact with treated areas until sprays have dried

KEEP OUT OF REACH OF CHILDREN.

CAUTION

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

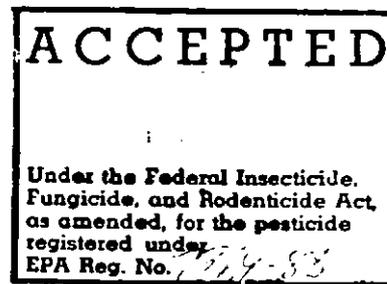
Statement of practical treatment

If swallowed: DO NOT INDUCE VOMITING. Drink promptly a large quantity of milk, egg whites, gelatin solution or, if these are not available, large quantities of water. Avoid alcohol.

If inhaled: Move to fresh air. Aid in breathing, if necessary, and get medical attention.

If in eyes: Immediately flush eyes with running water for at least 15 minutes. Call a physician if irritation persists.

If on skin: Wash with plenty of soap and water. Remove and launder contaminated clothing before re-using. If irritation develops, get medical attention.



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Environmental hazards

Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of washwaters.

Endangered species concerns

The use of any pesticide in a manner that may kill or otherwise harm an endangered or threatened species or adversely modify their habitat is a violation of Federal law.

Directions for Use

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

General information

Vantage herbicide is a selective broad spectrum postemergence herbicide for control of grasses in seedling (first year) and established centipedegrass (*Eremochloa ophiuroides*) and fine fescues such as creeping red fescue and Chewings fescue (*Festuca rubra*) and hard fescue (*Festuca ovina*). **Vantage** does not control sedges, nutgrass or broad-leaf weeds.

Do not apply **Vantage** to any desirable turfgrass other than centipedegrass and fine fescue, because other turf species may be seriously injured.

Since most grass crops such as sorghum, corn, small grains and rice are extremely susceptible to **Vantage**, avoid all direct or indirect contact with any of these desired grass plants.

Control symptoms: Vantage

rapidly enters the plant through the foliage and translocates throughout the plant. Control symptoms exhibited by the plant progress from a slowing or stopping of growth (generally within 2 days), to reddening of the foliage, and to leaf tip burn. Subsequently, burn back of the foliage occurs.

These symptoms will generally be observed within three weeks depending on environmental conditions.

Timing of application

Apply **Vantage** postemergence to actively growing grassy weeds as specified in the **Recommendations for Grass Control**. Apply **Vantage** no earlier than three weeks after spring green-up of centipedegrass turf. Apply **Vantage** before annual grasses become extensively tillered. Delay all treatment with **Vantage** until newly planted centipedegrass has three inches of new stolon growth.

Do not make applications to grasses under stress, such as stress due to lack of moisture, excess moisture, mechanical injury, herbicide injury, diseases or cold temperatures, since unsatisfactory control may result.

Application information

Ground equipment: Thorough spray coverage of grassy weeds is essential. For broadcast application use standard high pressure pesticide hollow cone or flat fan nozzles. Do not use flood or whirl chamber nozzles. Application of **Vantage** with controlled droplet applicator (CDA) nozzles is not recommended due to erratic coverage which causes inconsistent weed control. Use a minimum volume of 5 gallons and a maximum volume of 50 gallons of spray solution per acre. When using standard high pressure hollow cone or flat fan nozzles adjust pressure to a minimum of 30 psi and a maximum of 60 psi at the nozzle.

Always adjust spray pressure, spray volume and height of spray boom to ensure penetration of plant canopy and thorough coverage of grasses to be controlled.

Mowing

Adequate coverage of the leaf surface is necessary for absorption of this herbicide.

Therefore, centipedegrass and fine fescue areas should not be mowed within 7 days before or after application of **Vantage**. For control of bahiagrass, increased activity has been observed when mowing is delayed until 14 days after application.

Mixing/spraying

Fill tank of a thoroughly clean sprayer one-half to two-thirds full with clean water. Start agitation and add **Vantage** and remaining volume of water. Maintain constant agitation during application.

Restrictions and limitations

Do not make applications to grasses under stress, such as stress due to lack of moisture or herbicide injury, as unsatisfactory control will result.

Do not apply if rainfall is expected within one hour following application as grass control will be unsatisfactory.

Do not mix or apply **Vantage** with any other pesticide, additive, or fertilizer except as specifically recommended on this labeling.

Do not use treated vegetation as pasture, hay, feed, or forage.

On seedling centipedegrass do not apply more than 1 1/2 pints per acre of **Vantage** per application or a total of 3 pints per acre per season.

On established centipedegrass do not apply more than 2 1/4 pints of **Vantage** per acre per application or more than a total of 4.5 pints per acre per season.

Do not use on tall fescue (*Festuca arundinacea*).

Recommendations for Grass Control

- Apply to actively growing grasses.
- Always follow recommendations given in **Application Information** section.
- Always adjust spray pressure, spray volume and height of spray boom to ensure thorough coverage of grasses to be controlled.

Procedure For Cleaning Spray Equipment

ATTENTION! Clean sprayer thoroughly before and after application of **Vantage**.

Clean sprayer thoroughly prior to application of **Vantage**, particularly if an herbicide was used which has the potential to injure the crop to be sprayed with **Vantage**.

Failure to clean sprayer thoroughly after the application of **Vantage** may result in injury to any grass crop subsequently sprayed, such as corn, sorghum, small grains, rice and other turf. Fill the sprayer with clean water and add a commercial sprayer cleaner or a surfactant/adjvant at the recommended rate on its label. Circulate through entire sprayer system. Spray approximately half the tank solution through the hoses, booms, and nozzles to clean these parts. Drain the tank and rinse the total system thoroughly several times with clean water.

Recommendations for Annual Grass Control in Seedling Centipedegrass and Fine Fescue

Grass	Time of Application	Vantage™ herbicide	
		Rate/Acre	Rate/1000 sq. ft.
Large Crabgrass Smooth Crabgrass Goosegrass	If the grass weed has been mowed numerous times and is extensively tillered, control may be reduced	1 1/2 pints	1/2 Fl. Oz.*

*1 Tablespoon = 1/2 Fl. Oz.

Recommendation for Annual Grass Control in Established Centipedegrass and Fine Fescue

Grass	Time of Application	Vantage™ herbicide	
		Rate/Acre	Rate/1000 sq. ft.
Large Crabgrass Smooth Crabgrass Goosegrass	Up to 4" Apply before grass weeds become well established through tiller development.	2 1/2 pints	3/4 Fl. Oz.*

*1 Tablespoon = 1/2 Fl. Oz.

Recommendations for Perennial Grass Control in Established Centipedegrass and Fine Fescue

Grass	Time of Application	Vantage™ herbicide*	
		Rate/Acre	Rate/1000 sq. ft.
Bahiagrass* First Application Second Application	Up to 4" When regrowth is less than 4", generally 10-14 days later.	2 1/4 pints 2 1/4 pints	3/4 Fl. Oz. ** 3/4 Fl. Oz. **

*Do not mow within 7 days before application or within 14 days after application for best control.
**1 Tablespoon = 1/2 Fl. Oz.

Bahiagrass control and seedhead suppression in established centipedegrass

Established bahiagrass is very difficult to control because of its extensive rhizome system. One application of **Vantage™ herbicide** will burn down the bahiagrass, but many of the bahiagrass plants will grow. However, this regrowth is weak and bahiagrass seedheads will generally be suppressed for 40 days after the first application.

A second application of **Vantage™ herbicide** will be necessary for bahiagrass control. Under optimum growing conditions this second application should be made

as soon as 10 to 14 days after the first application. The second application should be made when the bahiagrass regrowth is young, actively growing and before it has reached a height of 4 inches.

Depending upon environmental conditions and cultural practices, season-long control may not always be obtained. However, competition of the bahiagrass with the centipedegrass turf will be reduced. In addition, any remaining bahiagrass will be less objectionable because of the long term seedhead suppression provided by the second application of **Vantage**.



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Appendix

The following are scientific names for the weeds listed in this label

Grasses

Common Name	Scientific Name
Bahiagrass	<i>Paspalum notatum</i>
Goosegrass	<i>Eleusine indica</i>
Large crabgrass	<i>Digitaria sanguinalis</i>
Smooth crabgrass	<i>Digitaria ischaemum</i>

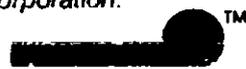
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Directions and Recommendations: Follow directions carefully. Timing and method of application, weather and crop conditions, mixture with other chemicals not specifically recommended and other influencing factors in the use of this product are beyond the control of the seller and are assumed by the buyer at his own risk.

Use of Product: FMC's recommendations for the use of this product are based upon tests believed to be reliable. The use of this product being beyond the control of the manufacturer, no guarantee, expressed or implied, is made as to the effects of such or the results to be obtained if not used in accordance with directions or established safe practice.

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