

Active Ingredient: Sethoxydim*: [2-[1-(ethoxyimino)butyl]-5-[2-(ethylthio)propyl]-3-hydroxy-2-cyclohexen-1-one] 13.0%
Inert Ingredients: 87.0%
Total 100.0%

*Equivalent to 1.0 pound of sethoxydim per gallon

EPA Reg. No. 7969-88

EPA Est. No. 34313-TX-01

KEEP OUT OF REACH OF CHILDREN. CAUTION

ACCEPTED

FEB 1 2 1999

Under the Federal Insecticide, Pungicide, and Rodenticide Act, as amended, for the posticide registered under BPA Reg. No 7

See the attached booklet for complete Precautionary Statements, Statements of Practical Treatment, Directions For Use, and Conditions of Sale and Warranty.

Net contents: 1 gallon (3.76 liters)

Precautionary Statements

Hazards to Humans and Domestic Animals Caution. Causes moderate eye injury. Harmful if swallowed or absorbed through the skin. Avoid contact with skin, eyes, or clothing.

Statement of Practical Treatment

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

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

If swallowed: Promptly drink a large quantity of milk, egg whites, gelatin solution, or, if these are not available, large quantities of water. Avoid alcohol.

Personal Protective Equipment (PPE)

Some materials that are chemically resistant to this product are listed below. If you want more options, follow the instructions for category **E** on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

Long-sleeved shirt and long pants

 Chemical-resistant gloves, such as barrier laminate, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, or viton ≥14 mils

Shoes plus socks

Wash thoroughly with soap and water after handling. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not re-use them. Follow manufacturer's instructions for cleaning/ maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Controls Statement

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations

Users should:

 Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

 Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

 Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Environmental Hazards

For terrestrial uses, do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

Endangered Species Concerns

The use of any pesticide in a manner that may kill or otherwise harm an endangered 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. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your state or tribe, consult the agency responsible for pesticide regulation.

All applicable directions, restrictions, precautions and **Conditions of Sale and Warranty** are to be followed. This labeling must be in the user's possession during application.

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), notification to workers, and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of **12 hours**. PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

Coveralis

 Chemical-resistant gloves such as barrier laminate, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, or viton ≥ 14 mils

Shoes plus socks

Nonagricultural Use Requirements

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, nurseries, or greenhouses. Do not allow people or pets to come into contact with treated areas until sprays have dried.

Storage and Disposal

Do not contaminate water, food, or feed by storage or disposal.

Pesticide Storage: Do not store below 32° F cr above 100° F. Store in a dry place away from hoat or open flame. Avoid contamination of feed or foodstuffs. Pesticide Disposal: Pesticide wastes are toxic. Wastes resulting from this product may be disposed of on site or at an approved waste disposal facility, Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of federal law. If these wastes cannot be disposed of according to label instructions, contact the state agency responsible for pesticide regulation or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Disposal:

• Plastic Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

In Case of Emergency

In case of large-scale spillage regarding this product, avoid contact, isolate area, and keep out animals and unprotected persons. Confine spill and call:

CHEMTREC BASF Corporation 800-424-9300 800-832-HELP

In case of medical emergency regarding this product, call:

Your local doctor for immediate treatment.

Your local poison control center (hospital).

BASF Corporation (800-832-HELP).

I. General Information

Vantage* herbicide is a selective, broad spectrum, postemergence herbicide for control of annual and perennial grass weeds in turf, ornamentals, nonfood, and noncrop sites listed on this label. Vantage does not control sedges or broadleaf weeds. Essentially, all grass crops, such as sorghum, corn, small grains, and rice, as well as ornamental grasses, such as turf, are susceptible to Vantage. A program for total vegetation suppression may necessitate the use of a broadleaf herbicide. Any combination treatment using **Vantage**. either tank mixed or sequential, should be tested to determine if seedhead growth suppression is maintained without increased injury or discoloration to tall fescue or other desired plant species. A reduction in grass competition may make certain broadleaf weeds appear more prominent or may allow new weeds to germinate.

Vantage may be used in or around the following sites:

Airports Bedding plants Centipedegrass and fine fescue turf Drug and medicinal crops Electrical transformer stations Fences and hedgerows

Fine fescue seed production

General indoor/outdoor sites

Ground covers Industrial sites

Other paved areas

Perennial peanuts (nonfood) Pipeline pumping stations Potting and top soils Public buildings Recreation areas Rights-of-ways Roadsides Sewage disposal areas Shrubs Storage yards Trees, Christmas trees Uncultivated agricultural areas Wildflowers

Mode of Action

Vantage rapidly enters the targeted grass weed through its foliage and translocates throughout the plant. The effects range from slowing or stopping growth (generally within 2 days), to foliage reddening and leaf tip burn. Subsequently, foliage burnback occurs. These symptoms will generally be observed within 3 weeks depending on environmental conditions.

Crop Tolerance

All labeled crops are tolerant to **Vantage** at all stages of growth. Leaf speckling may occur, but plants generally outgrow this condition within 10 days. New growth is normal and crop vigor is not reduced.

Notice to user: Due to variability within species, and in application techniques and equipment, and the number of tank mix combinations, neither the manufacturer nor the seller has determined whether or not Vantage can safely be used on all varieties and species of nonbearing food crops, trees, shrubs, ornamentals, bedding plants, ground covers, nursery, wildflowers, Christmas trees, turf and other non-food crops under all conditions. It is recommended, therefore, that the professional user determine if Vantage can be used safely before broad use by applying the recommended use rate of Vantage under the conditions expected to be encountered on a small test area. Any adverse effects should be visible within 7 days.

Herbicide Resistance

Repeated use of Vantage (or similar postemergence grass herbicides with the same mode of action) may lead to the selection of naturally occurring biotypes with resistance to these products. If poor performance cannot be attributed to adverse weather conditions or improper application methods, a resistant biotype may be present. Consult your local representative or agricultural advisor for assistance.

Irrigation

In irrigated areas, it may be necessary to irrigate before treatment to ensure active weed growth.

Coverage

Apply Vantage to the foliage of grasses on a sprayto-wet basis uniformly and completely. Dense leaf canopies shelter smaller grassy weeds and can prevent adequate spray coverage. Do not spray to the point of runoff.

Cultivation/Mowing

If cultivation is an option, do not cultivate during the time between 5 days before and 7 days after applying Vantage. Cultivating 7-14 days after treatment may help provide season-long control of perennial grasses. Centipedegrass and fine fescue areas should not be mowed within 7 days before or after applying Vantage. Increased control has been observed when moving is delayed until 14 days after applicaion. Grass weeds that have been mowed or have regrown from mowed stubble may be controlled poorly. Repeat application if new germination or regrowth occurs.

Cleaning Spray Equipment

Clean spray equipment thoroughly using a strong detergent or commercial sprayer cleaner according to the manufacturer's directions before and after applying this product.

II. Application Instructions

Applications can be made to actively growing grassy weeds as aerial, broadcast, band, or spot spray applications at the rates and growth stages listed in Tables 1 and 2, unless instructed differently in section VII. Crop-Specific Information. The most effective control will result from, making postemergent applications of Vantage, early, when grassy weeds are small. Delaying application permits grassy weeds to exceed the maximum size stated and will prevent adequate control.

Do not apply when conditions favor drift from target area or when windspeed is greater than 10 mph.

Ground Application (Broadcast)

Water Volume: Use 5-50 gallons of spray solution per acre (1-10 pints per 1,000 square feet).

Spray Pressure: Use 30-60 psi (measured at the

boom, not at the pump or in the line). When crop and gallons (3.67 pints per 1,000 square feet) of water and 60 psi.

Application Equipment: Use standard high-pressure pesticide flat fan or hollow cone nozzles spaced up to 20 inches apart. Do not use flood, whirl chamber, or controlled droplet applicator (CDA) nozzles as erratic coverage can cause inconsistent weed control. Refer to the nozzle manufacturer's directions for recommended height.

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

Spot or Small Area Application Vantage can be applied using tank-type, knapsack sprayers, high-volume equipment with hand guns, or other suitable nozzle arrangements. Prepare a solution of **Vantage®** herbicide in water according to **Table 2**. Do not make spot treatments in addition to broadcast or band treatment

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Grass	Vantage (Rate)	Vant	e (Rate)
Grass	Grasses up to 6" height	Grasses up to 12" height	
Bahiagrass' Barnyardgrass Bentgrass, Colonial , Highland Broadleaf Signalgrass Crabgrass, Large' , Smooth' Downy Brome* German Velvetgrass' Goosegrass':² Johnsongrass, Rhizome , Seedling Junglerice Lovegrass Orchardgrass, Seedling Panicum, Browntop , Fall , Texas Quackgrass Ryegrass, Annual's Sandbur, Field Shattercane/Wildcane Sprangletop, Red* Tall Fescue, Seedling Volunteer, Barley , Oats , Rye , Wheat Wild Oats Wild Oats Wild Proso Millet Wirestern Muhly Witchgrass Wooly Cupgrass up to 4*	2.25 pints per acre or 0.8 fluid ounces per 1,000 square feet	3.75 pints per acre or 1.4 fluid ounces per 1,000 square feet	

² In Seedling Centipedegrass and fine fescue, use 1.5 pints (0.5 fluid ounces).

up to 8" up to 6"

Not recommended in CA, AZ, or Western NM.

Table 2. Spot Treatment Application Rates

(see Appendix for the complete list of grasses controlled)	Concentration of Vantage in	Concentration of Vantage in Spray Solution	
Annual grasses up to 6" height	1.5%		,
Annual grasses up to 12" height	2.25%	· · · · · ·	
Perennial grasses	2.25%	1 1 2 1 2 1	
Use 1.5% for wirestern muhly.			

Table 3. Spot Treatment Dilution

Spray Solution Volume	Amount of Vant	age to be Added
	1.5% v/v	2.25%v/v
1 gallon 3 gallons 5 gallons	2 fl. oz. 6 fl. oz. 9.5 fl. oz.	3 fl. oz. 9 fl. oz. 14.5 fl. oz.

III. Additives

No additives or adjuvants are recommended for use with Vantage herbicide.

Compatibility Test for Tank Mix Components Add components in the following sequence using 2 teaspoons for each pound or 1 teaspoon for each pint of recommended label rate per acre.

1) Water: — For 20 gallons per acre spray volume, use 3.3 cups (800 ml) of water. For other spray volumes, adjust rates accordingly. Use only water from the intended source at the source temperature.

2) **Products in PVA bags:** — Cut an opening in the water-soluble PVA bag just large enough to use a teaspoon for measuring purposes. Use the opened water-soluble PVA bag first when preparing spray solution. Cap the jar and invert 10 cycles.

3) Water-dispersible products: — (dry flowables, wettable powders, suspension concentrates, or suspo-emulsions) Cap the jar and invert 10 cycles.

4) Water-soluble products: — Cap the jar and invert 10 cycles.

 Emulsifiable concentrates: — (Vantage) Cap the jar and invert 10 cycles.

6) Water-soluble additives: - Cap the jar and invert 10 cycles.

7) Let the solution stand for 15 minutes.

8) Evaluate the solution for uniformity and stability. The spray solution should not have free oil on the surface, nor fine particles that precipitate to the bottom, nor thick (clabbered) texture. Do not use any spray solution that could clog spray nozzles.

IV. Mixing Order

- 1) Water: Begin by agitating a thoroughly clean sprayer tank half full of clean water.
- 2) Products in PVA bags: Rinse the tank thoroughly before adding any material in PVA bags as boron residue will prevent adequate mixing. Place any product contained in water-soluble PVA bags into the mixing tank. Wait until all watersoluble PVA bags have fully dissolved and is evenly mixed in the spray tank before continuing.
- 3) Water-dispersible products: (dry flowables, wettable powders, suspension concentrates, or suspo-emulsions)
- 4) Water-soluble products
- 5) Emulsifiable concentrates (Vantage)
- 6) Water-soluble additives
- 7) Remaining quantity water

Maintain constant agitation during application.

V. Tank Mixing Application

Read and follow the applicable Restrictions and Limitations and Directions For Use on all products involved in tank mixing. Refer to section VII. Crop-Specific Information for more details.

The most restrictive labeling applies to tank mixes. Separate applications should be made if all target grassy weeds are not at the correct growth stage for treatment at the same time.

Tank mixing Vantage with some postemergence broadleaf herbicides has shown some reduction or failure to control some grassy weeds that would otherwise be controlled and therefore may require a higher rate of Vantage. However, do not exceed the maximum rate per application as listed in Table 6. If regrowth occurs or an additional flush of new grasses emerges, reapply Vantage according to recommended rates in Table 4.

Tank Mix Partners

The following herbicides may be tank mixed with Vantage according to the instructions in the respective product labels.

- Basagran®T/O
- Basagran®SG
- Fortune[®]
- Goal*
- Stinger*
- Surfian® AS

*For use only in AZ, NV, OR, WA,

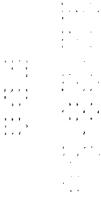
Physical incompatibility, reduced grass weed control, or crop injury may result from mixing Vantage with other pesticides (fungicides, herbicides, insecticides, or miticides), additives, or fertilizers. BASF does not recommend using tank mixes other than those listed on BASF labeling. Local agricultural authorities may be a source of information when using other than BASF recommended tank mixes.

VIII. General Restrictions and Limitations — All Crops

- Maximum seasonal use rate: See section IX. Crop-Specific Information for crop-specific maximum seasonal use rates.
- Restricted Entry Interval (REI): 12 hours.

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- Avoid all direct or indirect contact with any desired grass crop unless otherwise recommended on the Vantage® herbicide label.
- Do not use treated vegetation as pasture, hay, feed, or forage.
- Do not apply **Vantage** with another pesticide whose label cautions against use with additives, surfactants, or oil adjuvants.
- Do not use selective application equipment such as recirculating sprayers, wiper applicators, or shielded applicators.
- Stress: Do not apply to grasses or crops under stress such as stress due to lack of moisture, hail damage, flooding, herbicide injury, mechanical injury, or widely fluctuating temperatures, as unsatisfactory control will probably result.
- Do not apply to crops that show **injury** (leaf phytotoxicity or plant stunting) produced by any other prior herbicide applications, because this injury may be enhanced or prolonged.
- Rainfast Period: Vantage is rainfast 1 hour after application.
- Do not apply through any type of irrigation equipment.



IX. Crop-Specific Information

Christmas Tree and **Deciduous Tree Farms**

Vantage* herbicide may be used to control annual and perennial grasses in Christmas and deciduous tree farms. If a Christmas tree or deciduous tree is not listed in the Appendix, the user may determine if Vantage can be used safely prior to broad use by applying the recommended use rate of Vantage to the target plant on a small test area under the conditions expected to be encountered. Any adverse effects should be visible within 7 days.

Table 4. Christmas Trees

Common Name	Scientific Name
Fir, Balsam	Abies balsamea
, Douglas	Pseudotsuga mensiesii
, Frasier	Abies fraseri
, Grand	Abies grandis
, Noble	Abies procera (A. nobilis)
, Nordmann	Abies nordmanniana
, Red	Abies magnifica
, Shasta	Abies magnifica
, Turkish	
, White	Abies concolor
Hemlock, Canada	Tsuga canadensis
Pine, Austrian	Pinus nigra
, Lodgepole	Pinus contorta latifolia
, Monterey	Pinus radiata
, Ponderosa	Pinus ponderosa
, Scotch	Pinus sylvestris
, Southern (Longleaf)	
, Virginia	Pinus virginiana
, White	Pinus strobus
Spruce, Black Hills	Picea glauca
, Colorado Blue	Picea pungens
, Norway	Picea abies
, White	Picea glauca

Tank Mixes

Vantage + Goale 1.6E herbicide

Vantage: up to 3.75 pints Goal 1.6E: up to 2.5 pints

Vantage + Goal® T/O 2-XL herbicide Vantage: up to 3.75 pints Goal T/O 2-XL: 1.0-2.0 pints

(Not for use in California)

These tank mixes may be applied to control a broad spectrum of grass and broadleaf weeds in conifers and Christmas trees. Consult the Goal 1.6E and Goal T/O 2-XL labels for the list of grassy weeds and/or broadleaf weeds controlled. See previous pages for the minimum recommended rates of Vantage and see the Goal 1.6E and Goal T/O 2-XL label for minimum rates of Goal 1.6E and Goal T/O 2-XL. For season-long control, 2-3 applications may be needed. In some cases, reduced grass control may result when tank mixing Vantage with Goal 1.6E and Goal T/O 2-XL

Apply a spray volume of 20 gallons per acre at 40 psi before conifer bud break or after conifer foliage has had an opportunity to harden off. Broadleaf weeds must be within the height indicated on the Goal 1.6E and Goal T/O 2-XL labels. Refer to Goal label for pre-emergence weed control application rates.

Specific Restrictions and Limitations

Do not apply this tank mix when temperatures exceed 90° F.

Do not apply this tank mix to conifer seedlings less than 10 months old.

Do not apply this tank mix by aircraft equipment.

Vantage + Stinger® herbicide Vantage: 0.5-1.5 pints

Stinger: refer to manufacturer's label A postemergence tank mix application of Vantage + Stinger will not only control a broad spectrum of grasses, but also certain broadleaf weeds such as Canada thistle, clover, vetch, knapweed and suppress other broadleaf weeds. Consult the Stinger labeling for a list of broadleaf weeds controlled.

This tank mix may be applied only over-the-top of the following actively growing trees: fir (balsam, Douglas, frasier, grand, noble), pine (lodgepole, ponderosa, scotch, white), and spruce (blue).

Specific Restrictions and Limitations

In the Pacific Northwest, do not apply this tank mix in the first year of transplanting as injury (leaf curling) may

Do not apply more than 0.5 pint of Stinger per acre on blue spruce.

Do not add a surfactant or oil concentrate to this tank mix as injury may occur.

Nonbearing Food Crops, Ornamental and Nursery Plantings, Rights of Way, Nonfood Crop Areas, Noncrop Areas, and Fallow Land

Apply Vantage to nonbearing food crops, nursery liners, trees, shrubs, omamentals, bedding plants, cut flowers, and ground covers including those listed in the Appendix. If species in the application site are not listed in the Appendix, Vantage may be applied as a directed spray away from the foliage of desired plants. Vantage may also be applied to sites such as rights-ofways, fallow land, noncrop areas and nonfood crop areas such as airports, industrial sites, roadsides, storage yards, and other areas listed in section I. General Information. Repeat application if new germination or regrowth occurs.

Ornamental Sites

Tank Mixes

Vantage + Basagran® T/O herbicide
Vantage: up to 3.75 pints
Basagran T/O: up to 4 pints

Vantage + Basagran® SG herbicide
Vantage: up to 3.75 pinto

Basagran SG: up to 18 ounces

These tank mixes may be applied as a directed spray to control yellow nutsedge, grass, and broadleaf weeds in nonbearing food crops and omamental sites including trees, shrubs, bedding plants, and ground covers. This tank mix should be applied as a directed spray away from the foliage of desirod plants. If any desirable plant foliage receives direct or indirect application, wash off immediately. The use of an oil condentrate as mentioned on the Basagran T/O and Rasagran SG labels is not necessary in this tank mix.' Over-the-top applications of this tank mix may be made to certain ground covers. Consult the Basagran T/O and Basagran SG labels for this listing.

Vantage*herbicide + Surflan* AS herbicide

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Vantage: up to 3.75 pints Surflan AS: up to 4 pints

A tank mix of Vantage + Surflan A.S. may be applied to control weeds in omamental sites including trees, shrubs and groundcovers.

Vantage + Fortune® herbicide
Vantage: up to 3.75 pints
Surflan AS: up to 4 pints

A tank mix of Vantage + Fortune may be applied to control weeds in these states: AZ, NV, OR, and WA).

Roadsides, Rights of Way, and **Nonfood Crop Alleyways**

(Not intended for domestic use, except by professional applicators)

Vantage will suppress the initiation and development of the seedheads of established tall fescue. Discoloration of the fescue will occur soon after application and may persist for 2-8 weeks depending on environmental conditions. Avoid applying to any tall fescue area where discoloration is aesthetically unacceptable.

fiming: Apply Vantage to tall fescue before the emergence of seedheads in the spring. Do not apply after May 1 in Alabama, Georgia, and Tennessee; timing may vary in other areas. Tall fescue must be one year old before the first application of Vantage.

Rate: Apply 1.5 pints per acre (0.6 ounces per 1,000 square feet) of Vantage.

Spray volume: Use 30-50 gallons per acre (5.5-9.0

pints per 1,000 square feet).
Restrictions and Limitations

Do not make more than one application of Vantage to tall fescue per year.

Treated vegetation may not be used as feed, forage, hay, or silage. Vantage will not injure clovers, vetch, or other broadleaf plants that may be present.

Tree Farms

ESTABLISHED TALL FESCUE GROWTH SUPPRESSION:

Vantage may be used in tree farms to suppress the growth of tall fescue when grown as a desired ground cover. Tall fescue must be actively growing at the time of Vantage application or injury may occur. Follow the directions on rates and timing closely.

Apply Vantage to tall fescue after it has had 4-6 inches of new growth, before the emergence of seedheads and before conifer bud break. Application from July 1 to mid August may be less effective, especially if day temperatures reach 90° F. Tall fescue must be one year old before the first application of Vantage.

Rate: Apply 3-3.75 pints of Vantage per acre (0.6-0.7 ounces per 1,000 square feet). For greater fescue suppression, up to 60 fluid ounces of Vantage can be used per acre (1.4 ounces per 1,000 square feet). Local environmental differences or growth differences at the time of application to tall fescue may cause results to be different from those desired. Users of Vantage are advised to begin using Vantage at the minimum recommended rate and adjust rates as local conditions and experience dictate. Additional applications may be made if extended growth suppression is desired.

Wildflowers

Vantage may be used to control grass in native wildflowers on roadsides and in landscapes.

Vantage will reduce the competition from grasses on wildflower species. Grass competition can cause flower stand thinning, stunting and reduced seed production, reducing the aesthetic value and the resetting potential of the wildflower stand. Many wildflower species are tolerant of Vantage applications such as those listed in the Appendix. However, apply Vantage prior to blooming.

Application Timing

Apply Vantage to grass after wildflowers have emerged, but not during flowering. Apply Vantage 4-6 weeks after wildflowers have emerged, but always base the application timing on grass size. Make broadcast applications according to the Annual Grass Control with Vantage and Perennial Grass Control with Vantage tables. A second application may be necessary if a new flush of grass occurs later in the growing season.

Turf, Lawns, Rights of Way

FINE FESCUE GROWN FOR TURF SEED:

(Not for use in California)

Vantage may be used to control annual and perennial grass weeds in fine fescue. On seedling centipedegrass, do not apply more than 1.5 pints per acre per application, or 3 pints per acre per season. On established centipedegrass, do not apply more than 2.25 pints per acre per application or 4.5 pints per acre per season. Applications should be made in the Pacific Northwest from November 1 to March 15 at the rates indicated in Table 5. Applying Vantage at other times of the year will generally result in reduced control of these problem grass weeds. Vantage does not control annual bluegrass or rattail fescue.

Restrictions and Limitations

Do not apply Vantage to desirable tall fescue turf because injury may occur.

Table 5. Application Rates for Pacific Northwest only

Grass Species	Weed Size	Rate per Acre*
Annual Grasses Annual Ryegrass Downy Brome'	4-8" 2-6"	2.25 pints 3.75 pints
Perennial Grasses German Velvetgrass Colonial and Highland Bentgrasses	2-4" 2-4"	3-3.75 pints 2.25-3.75 pints

'also called cheatgrass

*If regrowth occurs or new plants emerge, make a second application at the same rate and weed size.

Tank Mixes

Vantage + Basagran® T/O herbicide Vantage: 2.25 pints Basagran T/O: 2-4 pints

(Not applicable in California)

A tank mix of Vantage and Basagram T/O may be in applied to control yellow nutsedge (nutgrass), grass, ... and broadleaf weeds in centipedegrass and fine fescue areas. This tank mix may be applied to established turf , ' grass. Do not apply to newly seeded turf sites until the turf has become fully established. The use of oil concentrate in this tank mix is not recommended.

Appendix Tree Species Tolerant to	•
Acacia, Knife Leaf Arborvitae, Eastern(var:	(Acacia cultriformis) Teehny) (Thuja occidentalis)
Ash. Green	ntal(Thuja Orientalis) (Fraxinus pennsylvanicum)
, Mountain	(Sorbus aucuparia) (Sorbus americana decora)
, Mountain	(Sorbus americana decora)
, vvnite	(Fraxinus americana)
Basswood, American	(Tilia americana) (Thuja orientalis)
Birch	(Retula so)
, Asian White(var. o	(Betula sp.) (aponica)(Betula platyphylla)
Europopo Milato	I Patula accadulat
, paper	Betula penuula)(Betula papyrifolia)(Betula nigra)(Robinia pseudoacacia)(Callistemon lanceolatus)
, River, Black or Red .	(Betula nigra)
Rottle-brush	(AU) (NODINIA PSEUDUACACIA) (Callistemon lanceolatus)
Bottle Tree	(Brachvchiton populneus)
Brisbane Box Tree	(Brachychiton populneus) (Tristania conferta)
Cajeput Tree	(Melaleuca quinquenervia) (Ceratonia siliqua). (Cupaniopsis anacardioides). (Catalpa bignonioides). (Prunus serotina)
Carob Tree	(Ceratonia siliqua)
Carrot Wood(Cupaniopsis anacardioides)
Catalpa, Southern	(Catalpa bignonioides)
Cherry Carolina (Prus	nus caroliniana "compacta").
Crabapple, Flowering	(var Dalgo, Radiant, Red
Splendor, Royalty, V	(Prunus serbiina) nus caroliniana "compacta")(var Dalgo, Radiant, Red 'anguard, Sylvestris,(Malus sp.)(Chamaecyparis pisifera)(Cupressocyparis leylandii)(Cupressus sempervirens)
Domestic)	(<i>Malu</i> s sp.)
Cypress, Faise	(Cnamaecyparis pisitera) (Cuprapsaevparis loulandii)
, Leyland	(Cupressus sempervirens)
Dogwood Flowering	(Comus florida)
, Silky	(Comus amonum) (Comus alternifolia)
Pagoda	(Čornus alternifolia)
, , agoa,	(Con los alterrillolla)
Elm, Chinese Evergreen Eucalyptus (Eucalyptus robu	(Ulmus parvifolia) sta, lehmannii, nicholi granis)
Elm, Chinese Evergreen Eucalyptus (Eucalyptus robu	(Ulmus parvifolia) sta, lehmannii, nicholi granis)
Elm, Chinese Evergreen Eucalyptus (Eucalyptus robu Fir	(Ulmus parvifolia) sta, lehmannii, nicholi granis)(Abies sp.)(Pseudotsuga megziesii)
Elm, Chinese Evergreen Eucalyptus (Eucalyptus robu Fir	(Ulmus parvifolia) sta, lehmannii, nicholi granis)(Abies sp.)(Pseudotsuga megziesii)
Elm, Chinese Evergreen Eucalyptus (Eucalyptus robu Fir, Douglas, Frasier, White	(Ulmus parvifolia)sta, lehmannii, nicholi granis)(Abies sp.)(Pseudotsuga menziesii)(Abies fraseri)(Abies concolor)
Elm, Chinese Evergreen Eucalyptus (Eucalyptus robu Fir, Douglas, Frasier, White	(Ulmus parvifolia)sta, lehmannii, nicholi granis)(Abies sp.)(Pseudotsuga menziesii)(Abies fraseri)(Abies concolor)(Koelreuteria paniculata).
Elm, Chinese Evergreen Eucalyptus (Eucalyptus robu Fir	(Ulmus parvifolia)(Ulmus parvifolia)
Elm, Chinese Evergreen Eucalyptus (Eucalyptus robu Fir	(Ulmus parvifolia)(Ulmus parvifolia)
Elm, Chinese Evergreen Eucalyptus (Eucalyptus robu Fir	(Ulmus parvifolia)(Ulmus parvifolia)
Elm, Chinese Evergreen Eucalyptus (Eucalyptus robu Fir , Douglas , Frasier , White	(Ulmus parvifolia) sta, lehmannii, nicholi granis)(Abies sp.)(Abies fraseri)(Abies fraseri)(Koelreuteria paniculata)(Psidium littorale)(Feijoa sellowiana)(Eucalyptus giobulus)(Eucalyptus citriodera) .(Eucalyptus polyanthemos)
Elm, Chinese Evergreen Eucalyptus (Eucalyptus robu Fir , Douglas , Frasier , White	(Ulmus parvifolia) sta, lehmannii, nicholi granis)(Abies sp.)(Pseudotsuga menziesii)(Abies fraseri)(Koelreuteria paniculata)(Psidium littorale)(Feijoa sellowiana)(Eucalyptus giobulus)(Eucalyptus citriodera) .(Eucalyptus polyanthemos) .(Celtis occidentalis)
Elm, Chinese Evergreen Eucalyptus (Eucalyptus robu Fir , Douglas , Frasier , White	(Ulmus parvifolia) sta, lehmannii, nicholi granis)(Abies sp.)(Pseudotsuga menziesii)(Abies fraseri)(Koelreuteria paniculata)(Psidium littorale)(Feijoa sellowiana)(Eucalyptus giobulus)(Eucalyptus citriodera) .(Eucalyptus polyanthemos) .(Celtis occidentalis)(Tsuga canadensis)
Elm, Chinese Evergreen Eucalyptus (Eucalyptus robu Fir , Douglas , Frasier , White	(Ulmus parvifolia) sta, lehmannii, nicholi granis)(Abies sp.)(Abies fraseri)(Abies fraseri)(Koelreuteria paniculata)(Feijoa sellowiana)(Eucalyptus giobulus)(Eucalyptus citriodera)(Eucalyptus citriodera)(Celtis occidentalis)(Tsuga canadensis)
Elm, Chinese Evergreen Eucalyptus (Eucalyptus robu Fir , Douglas , Frasier , White Goldenrain Tree Guava , Pineapple , Lemon-scented , Red Box Hackberry, Common Hemlock, Canadian Holly, Chinese	(Ulmus parvifolia) sta, lehmannii, nicholi granis)(Abies sp.)(Abies fraseri)(Abies fraseri)(Abies concolor)(Koelreuteria paniculata)(Psidium littorale)(Feijoa sellowiana)(Eucalyptus globulus)(Eucalyptus citriodera)(Celtis occidentalis)(Tsuga canadensis) fordii, Rotunda)(llex cornuta) r Nellie Stevens) (llex spares) convexa, Compacta, Helleri,
Elm, Chinese Evergreen Eucalyptus (Eucalyptus robu Fir , Douglas , Frasier , White Goldenrain Tree Guava , Pineapple , Lemon-scented , Red Box Hackberry, Common Hemlock, Canadian Holly, Chinese(var: But , Japanese(var: Canadian	(Ulmus parvifolia) sta, lehmannii, nicholi granis)(Abies sp.)(Abies fraseri)(Abies fraseri)(Abies concolor)(Feijoa sellowiana)(Eucalyptus globulus)(Eucalyptus globulus)(Celtis occidentalis)
Elm, Chinese Evergreen Eucalyptus (Eucalyptus robu Fir , Douglas , Frasier , White Goldenrain Tree Guava , Pineapple Gum, Blue , Lemon-scented , Red Box Hackberry, Common Hemlock, Canadian Holly, Chinese (var: But , Hybrid (var , Japanese(var: Canadian)	
Elm, Chinese Evergreen Eucalyptus (Eucalyptus robu Fir , Douglas, Frasier , White Goldenrain Tree Guava , Pineapple Gum, Blue, Lemon-scented , Red Box Hackberry, Common Hemlock, Canadian Holly, Chinese(var: But , Hybrid(var , Japanese(var: C) , Yaupon	(Ulmus parvifolia) sta, lehmannii, nicholi granis) (Abies sp.) (Abies sp.) (Abies fraseri) (Abies concolor) (Koelreuteria paniculata) (Feijoa sellowiana) (Eucalyptus giobulus) (Eucalyptus giobulus) (Eucalyptus giobulus) (Eucalyptus giobulus) (Eucalyptus polyanthemos) (Cattis occidentalis) (Tsuga canadensis) (Tsuga canadensis) (Tordii, Rotunda)(llex cornuta) (Nellie Stevens)(llex spares) (Convexa, Compacta, Helleri, (Hoogendorn)(llex crenata) (Ilex vomitoria) (Eucalyptus sideroxylon)
Elm, Chinese Evergreen Eucalyptus (Eucalyptus robu Fir , Douglas , Frasier , White Goldenrain Tree Guava Pineapple Gum, Blue Lemon-scented , Red Box Hackberry, Common Hemlock, Canadian Holly, Chinese	
Elm, Chinese Evergreen Eucalyptus (Eucalyptus robu Fir , Douglas , Frasier , White Goldenrain Tree Guava , Pineapple Gum, Blue , Lemon-scented , Red Box Hackberry, Common Hemlock, Canadian Holly, Chinese(var: But , Hybrid(vai , Japanese(var: C , Yaupon	
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Elm, Chinese Evergreen Eucalyptus (Eucalyptus robu Fir , Douglas , Frasier , White Goldenrain Tree Guava Pineapple Gum, Blue Lemon-scented , Red Box Hackberry, Common Hemlock, Canadian Holly, Chinese	
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Elm, Chinese Evergreen Eucalyptus (Eucalyptus robu Fir , Douglas , Frasier , White Goldenrain Tree Guava , Pineapple , Lemon-scented , Red Box Hackberry, Common Hemlock, Canadian Holly, Chinese	
Elm, Chinese Evergreen Eucalyptus (Eucalyptus robu Fir , Douglas , Frasier , White Goldenrain Tree Guava , Pineapple , Lemon-scented , Red Box Hackberry, Common Hemlock, Canadian Holly, Chinese	
Elm, Chinese Evergreen Eucalyptus (Eucalyptus robu Fir , Douglas , Frasier , White Goldenrain Tree Guava , Pineapple Gum, Blue , Lemon-scented , Red Box Hackberry, Common Hemlock, Canadian Holly, Chinese	
Elm, Chinese Evergreen Eucalyptus (Eucalyptus robu Fir , Douglas , Frasier , White Goldenrain Tree Guava , Pineapple Gum, Blue , Lemon-scented , Red Box Hackberry, Common Hemlock, Canadian Holly, Chinese	

Myoporum	(Myoporum laetum)
New Zealand Christma:	s Tree(Metrosideros excelsus)
Ωak	(Quercus)
Water	(Quercus nigra)
. Willow	(Quercus phellos)
Olive Tree	(Olea europaea)
Olive Russian	(Elaeagnus angustifolia)
Orchid Tree, Purple	(Bauhinia variegata)
Osage Orange	(Bauhinia variegata) (Maclura pomifera)
Palm Mediterranean fa	n(Chamaerops humilis)
Pyamy Date	(Phoenix roehelenii)
Oueen	(Phoenix roebelenii) (Arecastrum romanzoffianum)
Sago	(Cycas revoluta)
Windmill	(Cycas revoluta) (Tracheocarpus fortunei)
Palo Verde Green	(Parkinsonia aculeata)
Paulownia Royal	(Paulownia tomentosa)
Pear Common	(Pyrus communis)
Evergreen	(Pyrus kawakamii)
, Evergroom	(Pyrus ussurionsis)
Penner Brazilean	(Schious terebiothifolius)
Pine Alenno	(Pyrus ussuriensis) (Schinus terebinthifolius) (Pinus halepensis) (Pinus nigra) (Pinus carariensis)
Austrian	(Pinus niam)
Canary Island	(Pinus canariensis)
Caribbean Slash	(Pinus caribean)
Italian Stone	(Pinus ninea)
.lack	(Pinus pineá) (Pinus banksiana)
Jananese Black	(Pinus thunbergii)
Loblolly	(Pinus taeda)
Muaba	(Pinus mugho)
Ponderosa Weste	em yellow(Pinus ponderosa)
Red Red	(Pinus resinosa)
Scotch	(Pinus sylvestris)
Shore	(Pinus contra)
Slach	(Pinus cuntra)
Southern	(Pinus ellottii) (Pinus palustris)
Virninia	(Pinus virginiana)
White	(Pinus strobus)
White lanance	(Pinus parviflora)
, wille, dapanese.	(Podocarpus macrophyllus)
Plum Wild	(Prunus americana)
Poplar Hybrid	(Prunus americana) (Populus alba)
Popular Vellow Tulin T	ree(Liriodendron tulipifera)
Puroleleaf Railey Acaci	a(Acacia baileyana)
	(Sequoia sempervirens)
Sandcherry, Western	(Prunus besseyi)
Sensitive Plant	(Mimosa pudica)
Silk Tree	(Àlbizia julibrissin)
Spruce, Black Hills	(var. Densata)(Picea glauca)
, Colorado Blue	(Picea pungens)
Monway	(Picas ahias)
, White	(Picea glauca) (Arbutus unedo) an (Rhus lancea)
Strawberry Tree	Arbutus unedo)
Sumac, Standard, Africa	an(Rhus lancea)
Sweet Gum	
Sycamore	(Platanus occidentalis)
Tea Tree, Australian	(Leptospermun laevigatum)
Tipu Tree	(Tipuana tipu)
Malaut Block	Livelens sierel
Wooning Eig. Eyeting	(Juglans nigra), (Ficus benjamina),
- Weeping rig, Exolica	(Salix matsudana tortuosa)
Australian	(Salix rijatsiyuana tortuosa)
, Australian	(Geijera parviflora)
Poppormint	(Pittosporum phillyraeoides) (Agonis flexuosa)
Yate, Bushy	(Eucalyptus lehmannii)
Yew, English	(Taxus baccata)

Shrub Species Tolerant to Vantage® herbicide

Abelia, Glossy	(Abelia grandiflora)
Acacia, Bailey, Knife Leaf	(Acacia baileyana)
, Knite Leat	(Acacia cultriformis)
, Prostrate	(Acacia redolens)
, Sydney Golden vvattie	(Acacia longifolia)
AndromedaArborvitae, OrientalArrowwood, SouthernAzalea, Mollis hybrid	(Pieris japonica)
Arborvitae, Unental	(Platyciaous orientalis)
Annowwood, Southern	(P. v. kontorionum)
, Northern Lights Hybrid	∖H. X KOStenanum) •
, Northern Lights Hybrid IP v kostor	rianum x R prinophyllum)
Bamboo, Heavenly	(INandina domestica)
Barberry, Japanese	(Berberis thunbergii)
, Nortan	(Berberis koreana) (Berberis virginian)
Bird of Paradise Bush	(Caesalninia aillesil)
Bluebeard(C	(Caesaipii ila gillesii) an <i>i</i> onterie clandonansiel
Boxwood, Common	aryopteris ciaridorierisis) (Ruvus samnaniirans)
African	(Myrsine africana)
Jananese(var: Jana	nnical(Ruvus micronhylla)
, Japanese(var: Japo Buckthorn, Glossy, Alder	(Rhamnus francula)
*Complia (Complia ioner	sicol/Camallia accasa sus
Camellia(Camellia japor Cedar, Eastern Red(var: P	nca)(Carriella sasangua) Iuramidiformus, accosti
bedar, castern neu(var. m	(Juniperus virginiana)
Cherry, Brush	(Eugenia mydifolia)
Manchu Nanking	(Prunus tomentosa)
Chokecherny sp	(Aronia meloelata)
Chokecherry sp	(Euphoria cotinifolia)
Cotoneaster, Bearberry	(Cotoneaster dammerii)
. Cranberry	(Cotoneaster aniculata)
. 'lowfast' Peking	.(Cotoneaster apiculata) .(Cotoneaster acutifolia)
Coyote Bush	(Baccharis pilularis)
Cranberry Bush, American	(Vihurnum trilohum)
, Golden(V)	iburnum opulus aureum)
, Golden(V) Crape Myrtle	(Lagestromia indica)
Currant, Alpine	(Hibes alpinum)
Dogwood, Red Osier	(Cornus stolonifera)
Flaeagnus	(Flaeagnus umbellata)
Elaeagnus(Escallonia	fradesii)(Escallonia rubia)
Euonymus, Evergreen(var, Golden, Silver King)
	(Euonymus japonica)
. Winged	(Euonymus alata)
Fig, Creeping	
Firethorn	(Pyracantha oraberi)
Forsythia, Greenstem (Forsythia	a viridissima bronxeniss)
Flax, New Zealand	(Phormium tenax)
Fuchsia, Australian	(Correa pulchella)
Gardenia (var. Mystery, Radica	
dardonia (var. 1775tory, riddice	(Gardenia jasminoides)
. Dwarf(var. Veitch	ii)(Gardenia jasminoides)
Gold Vine, Guinea	(Hibbertia scandens)
Hakea	
Hawthorn, Indian	(Phonhiologie indica)
Hibiscus, Blue	(Alvoqvne huegolli)
Chinese	(Hibiscus rosa-sinensis).
Holly, Dwarf Burford (var. Bur	fordii Nana)(llev comuta)
Honeysuckle, Bush	(Dierville Ionicera)
Cape	(Tecomaria capensis)
Hydrangea(/	Hydrangea macrophylla)
Jasmine, Asiatic(Tracl	
Oranna Oranna	(Murraya nanioulate)
Star (Tranhal	(Murraya paniculata) lospermum jasminoides)
Winter	Jasmine nudiflorum)
, Winter(Go	elsemium semnen/irens)
Joioba	(Simmondsia chinensis)
Jojoba Juniper, Chinese(var: Mane	vi, Old Gold. Phtzerana.
	,

0 0 1:18 1 7 1 01.
Sea Green, Hekii, Nana, Torulosa, Phtzerana (Aurea, Pfitzer, Golden Pfitzer)
(Juniperus chinensis)
. Creeping(var: Bluechip, Hughes, Plumosa,
Prince of Wales, Webberi, Wiltonii, Bar Harbor, Andorra, Variegata, Youngstown Blue Rug). (Juniperus
Andorra, Variegata, Youngstown Blue Rug) (Juniperus
horizontalis)
, Ozark(<i>Juniperus</i> sp.) , Rocky Mountain(var: Blue Heaven, Welchii,
Wichita Blue, Medova, Moffet, Pyramidal
Green, Springtime, Admiral)(Juniperus scopulorum)
Juniper, Savin(var: Skandia, Arcadia, Broadmoor,
Buffalo, Pepin)(Juniperus sabina)
, Shore(var. Compacta)(Juniperus conferta)
, Tam(var. Tamariscifolia)(Juniperus sabina)
Lantana, Purple Trailing(Lantana montevidensis)
Laurustinus(Viburnum tinus) Lemonade Berry(Rhus integrifolia)
Lilac, Common Purple(Syringa vulgaris purpura)
Liriope, Green
, Variegated(Liriope muscari)
Mickey Mouse Bush(Ochna serrulata)
Mirror Plant
Mock Orange(Pittosporum tobira)
Mountain Lilac, Carmel Creeper(Ceanothus griseus) Myrtle, Dwarf(Myrtus communis compacta)
Nandina, Heavenly Bamboo(Nandina domestica)
Nannyberry(Viburnum lantago)
Ninebark (Physocarpus opulifolius)(var Aureus)
(Physocarpus opulifolius nanus)
Oleander(Nerium oleander)
Orchid, rockrose(Cistus purpureus)
Orchio, rockrose(Cistus purpureus)
Oregon Grape(Mahonia aquifolium)
Oregon Grape(Mahonia aquifolium) Osmanthus, Holiv-leaf(Osmanthus heterophuyllus)
Oregon Grape(Mahonia aquifolium) Osmanthus, Holly-leaf(Osmanthus heterophuyllus) , Sweet Olive(Osmanthus fragrans)
Oregon Grape(Mahonia aquifolium) Osmanthus, Holly-leaf(Osmanthus heterophuyllus) , Sweet Olive(Osmanthus fragrans) Palm, Natal
Oregon Grape(Mahonia aquifolium) Osmanthus, Holly-leaf(Osmanthus heterophuyllus) , Sweet Olive(Osmanthus fragrans) Palm, Natal
Oregon Grape

(var: Anthony Waterer, Froebellii, Goldflame)	Sarangarill
(Var. Anthony Waterer, Froebelli, Goldlame)	Sprengeril) Fescue, Blue(Festuca ovina)
(var. Fairy Queen)(Spiraea trilobataiovica)	Flowering tobacco(Vicotiana sp.)
(var Snowbound)(Spiraea nipponicaiovica)	Fountain Grass, Red(Pennisetum setaceum)
Star Plant, Lavender(Grewia occidentalis)	Gazania(Gazania ringens leucolaena)(Gazania sp.)
Tea Tree, Australian(Leptospermum laevigatum)	Geranium (Geranium sp.)
, New Zealand(var:RedGlow)	, Martha Washington(Pelargonium
, New Zealand(Leptospermum scoparium)	, main a washington
Texas Ranger(Leucophyllum frutescens)	domesticum)
Toyon, California Holly(Hetermeles arbutifolia)	Gerbera Daisy(Gerbera jamesonii)
Trumpet Vine, Pink(Pandorea rosea)	Geum(var: Lady Strathedon, Mrs. Bradshaw,
Veronica(Hebe 'Coed')	Mrs. Bradshaw Improved)(Geum quellyon)
Viburnum, Japanese(Viburnum japonicum)	Gladiolus(Gladiolus sp.)
, Sandankwa(Viburnum suspensum)	Heather, False(Cuphea hyssopifolia)
Wayfaring Tree(Viburnum lantanoides)	Honeysuckle, Amar(Lonicera maachii)
Weeping Fig, Exotica(Ficus benjamina)	, Fly(var. Emerald Mound, Clavey's Dwarf)
Wheelers Dwarf, Variegated(var: Wheller)	4
(Pittosporum tobira)	(Lonicera xylosteum)
Yellow Bells(Tecoma stans)	, Japanese(Lonicera japonica)
Yesterday-Today-and-Tomorrow(<i>Brunfelsia calycina</i>)	, Morrow(Lonicera morrowii)
Yew(Taxus cuspitata vigatum)	, Tatarian(var: Zabeli)(Lonicera tatarica) Hopseed Bush, Purple(var Purpurea)
Tev(raxas caspitata vigatari)	nopseed Busti, Purpie(Vai Purpurea)(Dodonaea viscosa)
Ornamentals and Bedding plants tolerant to	
Vantage herbicide	Impatiens sp.)
•	lris
Allysum(Alyssum sp.)	lvy, Grape(var: Ellen Danica)(Cissus rhombifolia)
Asparagus, Myers (var. Meyeri)(Asparagus densiflorus)	
, Sprenger(var. Sprengeri) (Asparagus densiflorus)	Jack-in-the-Pulpit
(Asparagus densiflorus)	Jade Plant(Crassula argentea)
Aster, New York (Aster novi-belgii)	Jasmine, Madagascar(Stephanotis floribunda)
, Stokes(var: Blue, White)(Stokesia cyanae)	
Baby's Breath(var: Bristo Fairy)	Lamb's Ear(Stachys lanata) Lavender, English(Lavandula vera)
(Gypsophila paniculata)	French (I avandula dentata)
Begonia(Begonia semperflorens)	, French(Lavandula dentatá) , Cotton(Santolina chamaecyparisus)
Beilflower, Tussock(var: Canterbury Bells)	Lilac, Chinese(Syringa chinensis)
(Campanula carpatica)	, Common Purple (var: Charles Joly, Ludwig
Bittersweet, American(Calastrus scandens)	Spaeth, Jay Tree)
Black-eyed Susan(var: Goldilocks)(Rudbeckia hirta)	(Syringa vulgaris purpurpa)
Bleeding Heart(Dicentra spectabilis)	, Meyer(var: Palibin)(Syringa sp.)
Butterfly Weed(Asclepias tuberosa)	, Korean(var: Miss Kim)(Syringa patula)
Bower Vine(Pandorea jasminoides)	Lilac, Mountain(Ceanothus griseus)
Cactus, Barrel(Echinocactus sp.)	Lily-of-the-Nile, Peter Pan(Agapanthus africanus) Lily-of-the-Valley(Convallaria majalis)
Candytuft(Iberis sempervirens)(Iberis amara)	Lobelia(Lobelia erinus)
Canna (Canna sp.)	·
Cassia, Feathery(Cassia artemisioides)	Marigold(Tagetes sp.) Mirror Plant(Coprosma baureri)
Chrysanthemum, Marguarite(Chrysanthemum	, Variegated(Coprosma repens)
for tanages (Charges the graph indicates)	Moneywort, Creeping Jenny .(Lysimachia nummalaria)
frutescens)(Chrysanthemum indicum) Cockscomb(Celosia argentea)(Canna)	Moss, Rose(Portulaca grandiflora)
Coleus(Coleus blumei)	, Sandwort(Arenaria verna)
Coneflower, Purple(var: Gioriosa Dairy)	Pansy, Johnny-Jump-Up(Viola tricolor)
(Echinacea purpurea)	Pepper, Ornamental(Capsicum sp.)
Coralbells(Heuchera sanguinea)	Periwinkle, Madagascar(Catharanthus roseus)
Coreopsis(var: Sunray)(Coreopsis lanceolata)	(Vinca minor)
Cup of Gold Vine(Solandra maxima)	Petunia (Petunia sp.)
Daffodil(Narcissus spp.)	Phlox, Perennial(Phlox paniculatá)
Dahlia(Dahlia pinnata)	Plantain Lily(Hosta sp.) Purple Loosestrife;(var; Morden's Gleam)
Daisy Bush(Euryops pectinatus)	Purpie Loosestrile (var iviorden's Gleam)
, Blue(Felicia amellioides)	Raspberry Ice(Bougianvillea sp.)
Daisy, Shasta (var: Alaska(Chrysanthemum maximum)	Haspberry Ice(Bougianvillea sp.)
Daylily(Hemerocallis hybrids)	Sage(Śalvia greggii) Sea Pinks, Thrift
Dianthus	Sea Pinks, Thrift(Armeria maritima)
Dragonhead, False(Physostegia virginiana) Dusty Miller(Centaurea cineraria)	Sedum, Stonecrop(Sedum »: rubrotinctum)
	Shrima Bloot (Lavender cotton)
Fern, Sprenger Asparagus(Asparagus densiflorus	Shrimp Plant(Justicia brandegeana) Sky Flower, Brazilian(Duranta stenostachya)
	ony novver, prazinanuburanta sienosiacnya)

Snail Vine	
	· (Mana paragalla)
Oriali Virio	(vigria caracalia)
Snapdragon	(Antirrhinum majus)
Speedwell, Spike	(Veronica spicata)
Station Devopolal	(Limonium andaril)
Statice, Perennial	Limonium perezii)
Stock	(Mattiola incana)
Sweet Grass	(Acorus oraminaus)
C + 1 # (31)	(D's at a first to
Sweet William	(Dianthus barbatus)
Transvaal Daisy	(Gerhera jamesonii)
Taranat Man Dinamend	(Disting the sector to the
Trumpet Vine, Blood red	(Distictis duccinatoria)
. Lavender	Clytostoma callistegioides)
Pink	(Pandorea rosea)
Tulip	(<i>Lulip</i> a spp.)
Verbena	(Varbana on)
	• • •
Wandering Jew	(Trade scantia sp.)
Wisteria	(Mietoria einonoia)
	•
Yarrow (var: Cerise Queen).	(Achillea Millefolium)
Dobutanto	(Achillos toucotos u.)
, Debutante	Vaci ililea tayyetea v.)
, Debutante Yellow Trumpet	(Macradyena unguis-cati)
Zinnia	(Zinnia elegans)
	(
Ground covers tolerant to	Nontago® barbialda
Ground covers tolerant to	o vantagew nerbicide
Aaron's Beard Optenia (var: Red Apple) Bergenia, Winter-blooming	(Hypericum calvoinum)
Intenia (var. Pad Apola)	(Antonio paralifolia)
plana (vai, neu Appie)	(Артына согонона)
-bergenia, Winter-blooming.	(Bergenia crassofolia)
Bugleweed	(Aiuga rentans)
Canada	ryuga reptarisj
Capeweed	(Arctotneca calendula)
Carpathian, Harebell	(Campanula carpatica)
Cinquefoil Spring (P	atontilla tabornoomontaoil)
Origonion, opining	riei una label raei noi ilai ili)
Cinquefoil, Spring(P Coyote brush (var. Twin Pea	aks)(Baccharış pilularis)
Crownvetch	(Coronilla varia)
Cushion Bush	(Calacaphalus beaugii)
Daisy, Trailing African, Free	vay(Osteospermum)
- Daisy. White African (Osteo	spermum fruticosum albá)
Daisy, White African (Osteo	spermum fruticosum alba)
Daisy, White African (Osteo Gazania, Trailing(G	spermum fruticosum alba) azania regens leucolaena)
Green Carpet	spermum fruticosum alba) azania regens leucolaena) (Herniaria glabra)
Green Carpet	spermum fruticosum alba) azania regens leucolaena) (Herniaria glabra)
Green Carpet lvy, Algerian	spermum fruticosum alba) azania regens leucolaena) (Herniaria glabra) (Hedera canaiensis)
Green Carpet lvy, Algerian	spermum fruticosum alba) azania regens leucolaena) (Herniaria glabra) (Hedera canaiensis) arthenocissus tricuspidata)
ly, Algerian	spermum fruticosum alba) azania regens leucolaena) (Herniaria glabra) (Hedera canaiensis) arthenocissus tricuspidata)
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Green Carpet ivy, Algerian	spermum fruticosum alba) lazania regens leucolaena)
Green Carpet ivy, Algerian	spermum fruticosum alba) lazania regens leucolaena)

Bachelor button	Centaurea cyanus
Bird's eyes	Gilia tricoloi
Black eved Susan	Rudbeckia hirta
Blanketflower	Gaillardia aristata
Blue Fescue	Festuca ovina glauca
Blue flax	Linum lewisi
Butterflyweed	Ascelpias tuberosa
Calendula	Calendula officinalis
California popov	Eschscholzia californica
Callionsis	Componeis tinetoria
Candytuft	lheris sempeniirens
Carnation	Coreopsis tinctoria lberis sempervirens Dianthus Silene armeria
Catchfly	Silono armoria
Chicon	Chican intribu
Chinago houses	Chicory intybus Collensia heterophylla
Columbias	Oulerisia neteropriyila
Corp poppy	Aquilegia spp.
Cornflower	Papaver rhoeas
Cosmos	Centaurea cyanus
Cranica dais:	Cosmos bipińnatus
Creeping daisy	
Dames rocket	Hesperis matronalis
Drammona bylox	Hesperis matronalis Phlox drummondii Oenothera sp.
Dwarf primrose	Oenothera sp.
Firewheel	Gaillardia pulchella Centaurea sp.
Five spot comflower	Centaurea sp.
Foxglove	Digitialis purpurea
Godetia	Digitialis purpureaClarkia amoena
Graynead conellower	Echinacea pallida
Hard fescue	Festuca lonaifolium
Indian blanket	Gaillardia oulchella
Indian paintbrush	Castilleia coccinea
Jewels of Opar	Talinum paniculatum
. lohnny-iumn-un	Viola nodata
Lance-leaved coreopsis	Coreopsis lanceolata Monarda citriodora
Lemon mint	Monarda citriodora
Liatris	Liatris spicata
Lupine	Lupinus spp. Verbena tenuisecta
Moss verbena	Verbena tenuisecta
New England aster	
Nodding catchfly pink	Silene sn
Oxeve daisy Chrys	Silene sp. santhemum leucanthemum
Painted daisy (Chrysanthemum carinatum
Perennial lunine	Lupinus perennis
Plains coreonsis	
Poor man's weather glass.	Ooreopsis unctoria
Prairie actor Mairie glass.	achaoranthara tanaontifolia
Prairie aster	Echipacaa purpura
Purplekeet teadfley	Ecrimacea purpurea
Purpleknot toadflaxQueen Anne's lace	Linaria sp.
Rod ribbone	Clarkin consinna
Red ribbons	Dolphia concinia
Pointoin	Conchratio visitalia
Cond bluebonet	Coriodrychis vicilolla
Sand bluebonnet	Lupinus subcarnosus
Scarlet flaxShowy primrose	Linum ruprum
Showy primrose	Oenotnera speciosa
Siderian wallilower	Uneirantnus son.
Spurred snapdragon	Linaria macrocลุกาล
Stock	Matthiola maritima
Sulfur cosmos	Cosmos sulfureus
Sweet alyssum	Lobularia maritima
Sweet William	Lliah היבונו Lliah ביותר Lliah ביותר בי
Texas bluebonnet	Lupinus texensis
Tickseed	Corexpsis;lancevlate
Tidy tips	Layæ platyglossa
Tidy tipsVirginian stock	Malcclmia maritima
Wallflower	Cheiranthus allion ii
White yarrow	Achillea millefclium
<u>_</u>	
-	

In limited testing with the following plants, some unacceptable phytotoxicity has been found, though usually occurring at application rates above those recommended on the product label.

Trees
Red Oak
White Oak
Shrubs
Azalea (var Snow)
Potentilla
(var Jackmanni, K. VanDyke) Potentilla verna
Privet, Japanese Ligustrum japonica
Ornamental
Snow-in-summer

Nonbearing Food Crops and Nursery Liners Tolerant to Poast* herbicide
Almonds
]Apples
Apricots
Asparagus
Avocados
Blackberries
Blueberries
Cherries
Crabapples
Cranberries
Dates
Figs
Grapes
Grapefruits
Lemons
Limes
Macadamias
Nectarines
Olives
Oranges
Peaches
Peanuts, Perennial*
lPears
Pecans
Pistachios
lPlums
Pomegranates
Prunes
Raspberries
Tangelos
Tangerines
Walnuts
}
Do not apply to nonbearing food crops within 1 year of harvest.

Weeds listed in this label			
Common Name	Scientific Name		
Bahiagrass	Paspalum notatum		
Barnyardgrass	Echinochloa crus-galli		
(Watergrass)	A		
Bentgrass, (Highland/Colonial)	Agrostic tenuis		
(Highland/Colonial) Bermudagrass	Cunadan daatulan		
(Wiregrass)	Cynodon dactylon		
Bluegrass Annual	Poa annua		
Bluegrass, Annual Broadleaf Signalgrass	Brachiaria platyphylla		
Brome, Downy	Bormus tectorum		
Centipede Grass	Eremochloa ophiuroides		
Crabgrass, Large	Digitaria sanguinalis		
, Smooth	Digitaria ischaemum		
Cupgrass, Woolly	Eriochloa villosa		
Fescue, Fine	Festuca sp.		
, Chewings	Festuca rubra		
, Creeping Red	Festuca rubra		
, Hard	Festuca longifolia		
, Rattail , Sheep	Festuca myuros Festuca ovina		
, Sneep . Tall	Festuca ovina Festuca arundinacea		
Foxtail, Giant	Setaria faberi		
(Pigeongrass)	Octana laberi		
, Green	Setaria viridis		
, Yellow	Setaria glauca		
Goosegrass	Eleusine indica		
Johnsongrass	Sorghum halepense		
Junglerice	Echinochloa colonum		
Lovegrass	Eragrostis cilianensis		
Orchardgrass	Dactylis glomerata		
Panicum, Browntop , Fall	Panicum fasciculatu		
	Panicum dichotomiflorum		
, Texas Quackgrass	Panicum texanum Agropyron repens		
Red Sprangletop	Leptochloa filiformis		
Rvegrass Annual	Lolium multiflorum		
Ryegrass, Annual Sandbur, Field	Cenchrus incertus		
Shattercane/Wildcane	Sorghum bicolor		
Torpedograss	Panicum repens		
Velvetgrass, German	Holcus mollis		
Volunteer Barley	Hordeum vulgare		
Oats	Avena sativa		
Rye	Secale Cereale		
Wheat	Triticum aestivum		
Wild Oats	Avena fatua Panioum miliocoum		
Wild Proso Millet Wirestern Muhly	Panicum miliaceum Muhlenbergia frondosa		
Witchgrass	Panicum capillare		
, mongrass	- amount capitaro		

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Sites:

This product can be used on the following sites:

Airports Bedding plants Centipedegrass and fine fescue turf Drug and medicinal crops Electrical transformer stations Fences and hedgerows Fine fescue seed production General indoor/outdoor sites **Ground covers** Industrial sites Other paved areas Perennial peanuts (nonfood) Pipeline pumping stations Potting and top soils Public buildings **Recreation areas** Rights-of-ways Roadsides Sewage disposal areas Shrubs Storage yards Trees, Christmas trees Uncultivated agricultural areas Wildflowers

Look inside for complete Restrictions and Limitations and Application Instructions.

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.

BASF warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions For Use**, subject to the inherent risks, referred to above. BASF MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. IN NO CASE SHALL BASF OR THE SELLER BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. BASF and the Seller offer this product, and the Buyer and User accept it, subject to the foregoing **Conditions of Sale and Warranty** which may be varied only by agreement in writing signed by a duly authorized representative of BASF.

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BASE Corporation P.O. Box 13528 Research Triangle Park, NC 23709



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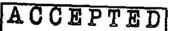
Torpedo®

Active Ingredient:

EPA Reg. No. 7969-88

EPA Est. No. 34313-TX-01

KEEP OUT OF REACH OF CHILDREN. CAUTION



FEB 12 1999

Under the Pederal Insecticide, Fundicide, and Rodenticide Act, as amended, for the pesticide registered under RPA Reg. No 7969-88

See the attached booklet for complete Precautionary Statements, Statement of Practical Treatment, Directions For Use, and Conditions of Sale and Warranty.

Net contents: 2.5 gallons (9.46 liters)

BASF Corporation P.O. Box 13528, Research Triangle Park, NC 27709

Precautionary Statements

Hazards to Humans and Domestic Animals Caution. Causes moderate eye injury. Harmful if swallowed or absorbed through the skin. Avoid contact with skin, eyes, or clothing.

Statement of Practical Treatment

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

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

if swallowed: Promptly drink a large quantity of milk, egg whites, gelatin solution, or, if these are not available, large quantities of water. Avoid alcohol.

Personal Protective Equipment (PPE)

Some materials that are chemical resistant to this product are listed below. If you want more options, follow the instructions for category **E** on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

Long-sleeved shirt and long pants

 Chemical-resistant gloves, such as barrier laminate, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, or viton ≥14 mils

Shoes plus socks

Wash thoroughly with soap and water after handling. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not re-use them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Controls Statement

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations

Users should:

 Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

 Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

 Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Environmental Hazards

For terrestrial uses, do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

Endangered Species Concerns

The use of any pesticide in a manner that may kill or otherwise harm an endangered 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. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your state or tribe, consult the agency responsible for pesticide regulation.

All applicable directions, restrictions, precautions and **Conditions of Sale and Warranty** are to be followed. This labeling must be in the user's possession during application.

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), notification to workers, and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of **12 hours**. PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

Coverall:

 Chemical-resistant gloves such as barrier laminate, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, or viton ≥ 14 mils

Shoes plus socks

Storage and Disposal

Do not contaminate water, food, or feed by storage or disposal.

Pesticide Storage: Do not store below 32° F or above 100° F. Store in a dry place away from heat or open flame. Avoid contamination of feed or foodstuffs. Pesticide Disposal: Pesticide wastes are toxic. Wastes resulting from this product may be disposed of on site or at an approved waste disposal facility. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of federal law. If these wastes cannot be disposed of according to label instructions, contact the state agency responsible for pesticide regulation or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Disposal:

• <u>Plastic Containers</u>: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning, If, burned, stay out of smoke.

in Case of Emergency

In case of large-scale spillage regarding this product, avoid contact, isolate area, and keep out animals and unprotected persons. Confine spill and call:

800-424-9300 CHEMTREC **BASF** Corporation

800-832-HELP In case of medical emergency regarding this product, call:

- Your local doctor for immediate treatment.
- Your local poison control center (hospital).
- BASF Corporation (800-832-HELP).

I. General Information

Torpedo® herbicide is a selective, broad spectrum, postemergence herbicide for control of annual and perennial grass weeds in bearing and nonbearing grapefruit, iemon, lime, orange, tangerine, and tangerine hybrid crops. Torpedo does not control sedges or broadleaf weeds. Turfgrasses and corn are susceptible to Torpedo. Because all grass crops as well as omamental grasses can be injured or killed by Torpedo, avoid all direct or indirect contact with any desired grass plants.

Mode of Action

Torpedo rapidly enters the target weed through its foliage and translocates throughout the plant. The effects range from slowing or stopping growth (generally within 2 days), to foliage reddening and leaf tip burn. Subsequently, foliage burnback may occur. These symptoms will generally be observed within 3 weeks depending on environmental conditions.

Crop Tolerance

Nonbearing Citrus: Citrus crops are tolerant to Torpedo, but under some conditions, a slight leaf speckling or burn can occur. Citrus plants will outgrow these symptoms and later growth is not affected.

Bearing Citrus: Torpedo should be directed away from citrus foliage as well as developing and mature fruit because injury may occur under certain conditions.

Irrigation

In irrigated areas, it may be necessary to irrigate before treatment to ensure active weed growth.

Apply Torpedo to the foliage of grasses on a sprayto-wet basis uniformly and completely because large leaf canopies shelter smaller weeds and can prevent adequate spray coverage. Do not spray to the point of runoff.

Cultivation

Do not cultivate during the time between 5 days before and 7 days after applying Torpedo. Cultivating 7-14 days after treatment may help provide seasonlong control.

Cleaning Spray Equipment

Clean spray equipment thoroughly using a strong detergent or commercial sprayer cleaner according to the manufacturer's directions before and after applying this product.

II. Application Instructions

Torpedo® herbicide should be applied to actively growing weeds at the rates and growth stages listed. Direct the nozzles toward the grass foliage because soil application is ineffective. Heavy tree growth that covers and protects grass weeds from spray coverage may reduce the activity of **Torpedo**.

The most effective control will result from making postemergent applications of **Torpedo** actively growing grasses before tillering or seed head formation.

Do not apply when conditions favor drift from target area or when windspeed is greater than 10 mph. To suppress grasses in citrus grove alleys, apply 8-10 ounces of **Torpedo** per treated acre.

Ground Application (Broadcast) Row Middles:

Water Volume: Use 10-20 gallons of spray solution. Under most conditions, 10 gallons per acre is optimum.

Spray Pressure: Use 40-60 psi (measured at the boom, not at the pump or in the line). When crop and veed foliage is dense, use a maximum of 20 gallons of water and 60 psi.

Application Equipment: Use standard high-pressure pesticide flat fan or hollow cone nozzles spaced up to 20 inches apart. Do not use flood, whirl chamber, or controlled droplet applicator (CDA) nozzles as erratic coverage can cause inconsistent weed control. Refer to the nozzle manufacturer's directions for recommended height.

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

Spot or Small Area Application

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To control or suppress grasses when using knapsack sprayers or high-volume equipment (handguns or other suitable nozzle arrangement), prepare a solution of **Torpedo** plus oil concentrate in water according to **Table 2. Spot Treatment Application**

Table 2, Spot Treatment Application Concentration in Spray Solution. The best spray application will be a fine spray that will cover the leaves but not drench them and run off. The best performance is obtained by using 10-20 gallons of spray solution per acre with a concentration of 1.5-2.5% v/v of Torpedo.

Do not make spot treatments in addition to broadcast treatments.

Table 2. Spot Treatment Application Concentration in Spray Solution

	V/V Concentration in Spray Solution'			
Grasses	Torpedo	Oil Concentrate		
Annual up to 6" height	1.5%	1%		
Annual up to 12" height	2.25%	1%		
Perennial ²	2.25%*	1%		

Refer to Table 3 (Spot Treatment Dilution) for preparing the desired solution volume.
 Repeat application as needed.

Table 1. Broadcast Application Rates and Timings

0	Maximum Weed Height			
Grass	2.25 Pints per Acre*	3.75 Pints per Acre*		
Barnyardgrass Bermudagrass (wiregrass) Crabgrass, Large , Smooth Foxtails, Giant , Green , Yellow Goosegrass Guineagrass Johnsongrass, Rhizome , Seedling Junglerice Millet, Wild Proso Orchardgrass, Seedling Panicum, Fall , Texas Shattercane/Wildcane Signalgrass , Broadleaf Sprangletop, Red Fescue, Tall (Seedling) Torpedograss Witchgrass Cupgrass, Woolly	0 °°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°	12" up to 6" runners 12" 12" 12" 12" 12" 12" 12" 12" 12" 12"		

For wirestem muhly, use 1.5% concentration up to a maximum weed size of 6 inches.

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Table 3. Spot Treatment Dilution Table

Sarat	Amount of Product to be Added		
Spray	Torpedo	Torpedo	Oil Concentrate
Solution Volume	(1.5% v/v)	(2.25% v/v)	(1% v/v)
1 gallon	1.9 fl. oz.	2.9 fl. oz.	1.3 fl. oz.
3 gallons	5.8 fl. oz.	8.75 fl. oz.	3.8 fl. oz.
5 gallons	9.5 fl. oz.	14.5 fl. oz.	6.4 fl. oz.

III. Additives

To achieve consistent weed control, always use crop oil concentrate at a maximum rate of 2 pints per acre

Oil Concentrate

A crop oil concentrate must contain either a petroleum or vegetable oil base and must meet all of the following criteria:

- be nonphytotoxic.
- contain only EPA-exempt ingredients.
- provide good mixing quality in the jar test, and
- be successful in local experience.

The exact composition of suitable products will vary: however, vegetable and petroleum oil concentrates should contain emulsifiers to provide good mixing quality. Highly refined vegetable oils have proven more satisfactory than unrefined vegetable oils. Do not use citrus petroleum sprays (435/455 oil) in place of crop oil concentrate as this will lead to unacceptable performance. For more information, see Compatibility Test for Mix Components.

Table 4. Additive Rates Per Acre

Additive	Ground Application
Oil Concentrate	2 pints

Compatibility Test for Mix Components

Add components in the following sequence using 2 teaspoons for each pound or 1 teaspoon for each pint of recommended label rate per acre. PH buffering performance can be improved by buffering the spray solution to a pH of 5. Use a buffering agent or ammonium sulfate to achieve the desired pH.

- 1) Water: For 20 gallons per acre spray volume, use 3.3 cups (800 ml) of water. For other spray volumes, adjust rates accordingly. Use only water from the intended source at the source temperature
- 2) Products in PVA bags: Cut an opening in the water-soluble PVA bag just large enough to use a teaspoon for measuring purposes. Use the opened water-soluble PVA bag first when preparing spray solution. Cap the jar and invert 10 cycles.
- Water-dispersible products: (dry flowables, wettable powders, suspension concentrates, or suspo-emulsions) Cap the jar and invert 10 cycles.
- 4) Water-soluble products: Cap the jar and invert 10 cycles.
- 5) Emulsifiable concentrates: (Torpedo, oil concentrate, or methylated seed oil when applicable) Cap the jar and invert 10 cycles.

- 6) Water-soluble additives: -- (AMS or UAN when applicable) Cap the jar and invert 10 cycles.
- 7) Let the solution stand for 15 minutes.
- 8) Evaluate the solution for uniformity and stability. The spray solution should not have free oil on the surface, nor fine particles that precipitate to the bottom, nor thick (clabbered) texture. Do not use any spray solution that could clog spray nozzles.

IV. Mixing Order

- 1) Water: Begin by agitating a thoroughly clean sprayer tank half full of clean water.
- Products in PVA bags: Rinse the tank thoroughly before adding any material in PVA bags as boron residue will prevent adequate mixing. Place the water-soluble PVA bag into the mixing tank. The water-soluble PVA bag will dissolve in water to allow the contents to disperse. Wait until all water-soluble PVA bags have fully dissolved and the herbicide is evenly mixed in the spray tank before continuing.
- Water-dispersible products: (dry flowables. wettable powders, suspension concentrates, or suspo-emulsions)
- 4) Water-soluble products
- 5) Emulsifiable concentrates (Torpedo, oil concentrate, or methylated seed oil when applicable)
- 6) Water-soluble additives (AMS or UAN when applicable)
- Remaining quantity water

Maintain constant agitation during application.

V. Tank Mixing Application

BASF does not recommend using tank mixes other than those listed on BASF labeling. Physical incompatibility, reduced weed control, or crop injury may result from mixing Torpedo® herbicide with other pesticides (fungicides, herbicides, insecticides, or miticides), additives, or fertilizers. Local agricultural authorities may be a source of information when using other than BASF recommended tank injxes.

Torpedo may be tank mixed with diuron herbicides and certain other preemergence harbicides. Consult your local BASF representative or agricultural advisor for additional information.

VI. General Restrictions and Limitations — All Crops

- Maximum seasonal use rate: Do not apply more than a total of 15 pints of Torpedo® herbicide per acre, per season, including spot treatments.
- Preharvest Interval: 15 days
- Restricted Entry Interval (REI): 12 hours.
- Do not apply **Torpedo** with another pesticide whose label cautions against use with oil adjuvants.
- Do not use **selective application equipment** such as recirculating sprayers, wiper applicators, or **shielded applicators**.
- Rainfast Period: Torpedo is rainfast 1 hour after application.
- Stress: Do not apply to grasses or crops under stress such as stress due to lack of moisture, hail damage, flooding, herbicide injury, mechanical injury, or widely fluctuating temperatures, as unsatisfactory control will probably result.
- Do not apply to crops that show **injury** (leaf phytotoxicity or plant stunting) produced by any other prior herbicide applications, because this injury may be enhanced or prolonged.
- Do not apply through any type of irrigation equipment.
- Do not allow applications of **Torpedo** to contact developing or mature fruit.

Table 5. Crop-Specific Restrictions and Limitations

Crop	Minimum Time from Application to Harvest (PHI)	Maximum Rate Per Acre Per Application	Maximum Rate Per Acre Per Season	Livestock Grazing or Feeding	Aircraft Application
Citrus	15 days	3.75 pints	15 pints	Yes*	No

Crops:

This product can be used on the following crops:

Grapefruits Lemons Limes Oranges Tangerines & Tangerine Hybrids

Look inside for complete Restrictions and Limitations and Application Instructions.

Weeds listed in this label:

Common Name	Scientific Name
Barnyardgrass	Echinochioa crus-galli
Bermudagrass	Cynodon dactylon
Crabgrass, Large	Digitaria sanguinalis
, Smooth	Digitaria ischaemum
Cupgrass, Woolly	Eriochloa villosa
Fescue, Tall	Festuca arundinacea
Foxtail, Giant	Setaria faberi
🛓 , Green	Setaria viridis
, Yellow	Setaria glauca
Goosegrass	Eleusine indica
Guineagrass	Panicum maximum
Johnsongrass	Sorghum halepense
Junglerice	Echinochloa colonum
Lovegrass/Stinkgrass	Eragrostis cilianensis
Millet, Wild Proso	Panicum miliaceum
Orchardgrass	Dactylis glomerata
Panicum, Fall	Panicum dichotomiflorum
, Texas	Panicum texanum '
Shattercane/Wildcane	Sorghum bicolor
Signalgrass, Broadleaf	Brachiaria platyphylla
Sprangletop,Red	Leptochloa filiformis
Torpedograss	Panicum repens
Witchgrass	Panicum capillare

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. BASF warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions For Use**, subject to the inherent risks, referred to above. BASF MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. IN NO CASE SHALL BASF OR THE SELLER BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. BASF and the Seller offer this product, and the Buyer and User accept it, subject to the foregoing Conditions of Sale and Warranty which may be varied only by agreement in writing signed by a duly authorized representative of BASF.

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Supplemental Label



For Use as a Preplant Burndown Treatment in Corn

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 application.

Directions For Use

It is a violation of federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your state or tribe, consult the agency responsible for pesticide regulation.

Application Instructions

Follow the application timings for weed sizes as specified on each product label. Follow the spray volume and pressure recommendations as described on the **Poast® Plus herbicide** label.

Apply **Poast Plus** at 1.5 pint per acre at 30 or more days prior to planting corn to actively growing grasses. Use additives according to the **Spray Additives** section of this label.

Read and follow the applicable **Restrictions and Limitations** and **Directions For Use** on all products involved in tank mixing. Refer to specific labels for the spectrum of susceptible weeds. The most restrictive labeling applies to tank mixes.

Poast Plus + Marksman® herbicide Poast Plus 1.5 pint per acre Marksman 3.5 pints per acre

Apply at 30 or more days prior to planting com to actively growing weeds and grasses. This tank-mix provides the combined benefits of early burndown and 1.0 pound active ingredient of atrazine preemergence. Use additives according to the **Spray Additives** section of this label.

Poast Plus + Clarity herbicide
Poast Plus 1.5 pint per acre
Clarity 1.0 pint per acre

Apply at 30 or more days prior to planting corn to actively growing weeds and grasses. Use additives according to the **Spray Additives** section of this label.

Spray Addititves

Use 2.0 - 4.0 pints of UAN or 1.0 - 2.0 pounds of spray grade ammonium sulfate with crop oil concentrate or methylated seed oil at 1.0 - 2.0 pints per acre. Also refer to the respective labels for specific recommendations on additives.

ACCEPTED

FEB 12 1999

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under BPA Reg. No 79469-88

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