

**TopPro Specialties**  
A Unit of BASF Corporation and Micro Flt Company

# Vantage

herbicide

**Active Ingredient:**

Sethoxydim\*: [2-[I-(ethoxymino)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

## 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 grass weed foliage is dense, use a minimum of 20 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.

**Table 1. Application Rates for Grass Control**

Grass	Vantage (Rate)	
	Grass up to 6" height	Grass up to 12" height
Bahiagrass*		
Barnyardgrass		
Bentgrass, Colonial		
, Highland		
Broadleaf Signalgrass		
Crabgrass, Large'		
, Smooth'		
Downy Brome*		
German Velvetgrass'		
Goosegrass <sup>1,2</sup>		
Johnsongrass, Rhizome		
, Seedling		
Junglerice		
Lovergrass		
Orchardgrass, Seedling		
Panicum, Browntop		
, Fall		
, Texas		
Quackgrass		
Ryegrass, Annual <sup>3</sup>		
Sandbur, Field		
Shattercane/Wildcane		
Sprangletop, Red*		
Tall Fescue, Seedling		
Volunteer, Barley		
,Oats		
,Rye		
,Wheat		
Wild Oats		
Wild Proso Millet		
Wirestem Muhly		
Witchgrass		
Wooly Cupgrass		
'up to 4"		
<sup>1</sup> In Seedling Centipedegrass and fine fescue, use 1.5 pints (0.5 fluid ounces)		
<sup>2</sup> up to 8"		
<sup>3</sup> up to 6"		
*Not recommended in CA, AZ, or Western NM		

**Table 2. Spot Treatment Application Rates**

<b>Grass (see Appendix for the complete list of grasses controlled)</b>	<b>Concentration of Vantage in Spray Solution</b>
Annual grasses up to 6" height	1.5%
Annual grasses up to 12" height	2.25%
Perennial grasses	2.25% <sup>1</sup>

<sup>1</sup>Use 1.5% for wirestem muhly.

**Table 3. Spot Treatment Dilution**

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

<sup>1</sup>Use 1.5% for wirestem muhly.

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

**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, ornamentals, 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-of-ways, fallow land, noncrop areas and nonfood crop areas such as airports, industrial sites, roadsides, storage yards, and other areas listed in section 1, General Information. Repeat application if new germination or regrowth occurs.

## Appendix

### Tree Species Tolerant to Vantage® herbicide

Acacia, Knife Leaf	( <i>Acacia cultriformis</i> )
Arborvitae, Eastern , Berkman's, Oriental	(var.- <i>Teehny</i> ) ( <i>Thuja occidentalis</i> ) ( <i>Thuja Orientalis</i> )
Ash, Green , Mountain , Mountain , White	( <i>Fraxinus pennsylvanicum</i> ) ( <i>Sorbus aucuparia</i> ) ( <i>Sorbus americana decora</i> ) ( <i>Fraxinus americana</i> )
Basswood, American	( <i>Tilia americana</i> )
Berkman's, Oriental	( <i>Thuja orientalis</i> )
Birch , Asian White , European White , paper , River, Black or Red	( <i>Betula sp</i> ) (var. <i>Japonica</i> ) ( <i>Betula platyphylla</i> ) ( <i>Betula pendula</i> ) ( <i>Betula papyrifera</i> ) ( <i>Betula nigra</i> )
Black Locust	( <i>Robinia pseudoacacia</i> )
Bottle-brush	( <i>Callistemon lanceolatus</i> )
Bottle Tree	( <i>Brachychiton populneus</i> )
Brisbane Box Tree	( <i>Tristania conferta</i> )
Cajepul Tree	( <i>Melaleuca quinquenervia</i> )
Carob Tree	( <i>Ceratonia siliqua</i> )
Carrot Wood	( <i>Cupaniopsis anacardioidea</i> )
Catalpa, Southern	( <i>Catalpa bignonioides</i> )
Cherry Black	( <i>Prunus serotina</i> )
Cherry, Carolina	( <i>Prunus caroliniana "compacta"</i> )

Crabapple, Flowering	( <i>Malus</i> sp)
Cypress, False	( <i>Chamaecyparis pisifera</i> )
, Leyland	( <i>Cupressocyparis leylandii</i> )
, Italian	( <i>Cupressus sempervirens</i> )
Dogwood, Flowering	( <i>Cornus florida</i> )
,Silky	( <i>Cornus amomum</i> )
,Pagoda	( <i>Cornus alternifolia</i> )
Elm, Chinese Evergreen	( <i>Ulmus parvifolia</i> )
Eucalyptus	( <i>Eucalyptus robusta, Lehmannii, nicholi granis</i> )
Fir	( <i>Abies</i> sp)
,Douglas	( <i>Pseudotsuga menziesii</i> )
,Frasier	( <i>Abies fraseri</i> )
,White	( <i>Abies concolor</i> )
Goldenrain Tree	( <i>Koelreuteria paniculata</i> )
Guava	( <i>Psidium littorale</i> )
,Pineapple	( <i>Feijoa sellowiana</i> )
Gum, Blue	( <i>Eucalyptus globulus</i> )
,Lemon-scented	( <i>Eucalyptus citriodora</i> )
,Red Box	( <i>Eucalyptus polyanthemos</i> )
Hackberry, Common	( <i> Celtis occidentalis</i> )
Hemlock, Canadian	( <i>Tsuga canadensis</i> )
Holly, Chinese	(var. <i>Bufordii, Rotunda</i> )( <i>Ilex cornuta</i> )
,Hybrid	(var. <i>Nellie Stevens</i> )( <i>Ilex sparsa</i> )
,Japanese	(var. <i>Convexa, Compacta, Helleri, Hoogendoorn</i> )( <i>Ilex crenata</i> )
,Yaupon	( <i>Ilex vomitoria</i> )
Ironbark, Red	( <i>Eucalyptus sideroxylon</i> )
Jacaranda	( <i>Jacaranda mimosifolia</i> )
Kentucky Coffee Tree	( <i>Gymnocladus dioicus</i> )
Larch, European	( <i>Larix europea</i> )
Laurel, Indian	( <i>Ficus microcarpa nitida</i> )
Linden	( <i>Tilia americana</i> )
,Littleleaf	( <i>Tilia cordata</i> )
Locust, Honey	( <i>Gleditsia triacanthos inermis</i> )
Loquat	( <i>Eriobotrya japonica</i> )
Magnolia Southern	( <i>Magnolia grandiflora</i> )
Maple, Red	( <i>Acer rubrum</i> )
,Japanese	( <i>Acer palmatum</i> )
,Silver	( <i>Acer saccharinum</i> )
Mimosa Tree	(silk tree)( <i>Albizia julibrissin</i> )
Myoporum	( <i>Myoporum laetum</i> )
New Zealand Christmas Tree	( <i>Metrosideros excelsus</i> )
Oak	( <i>Quercus</i> )
, Water	( <i>Quercus nigra</i> )
, Willow	( <i>Quercus phellos</i> )
Olive Tree	( <i>Olea europaea</i> )
Olive, Russian	( <i>Eleagnus angustifolia</i> )
Orchid Tree, Purple	( <i>Bauhinia variegata</i> )
Osage Orange	( <i>Maclura pomifera</i> )
Palm, Mediterranean fan	( <i>Chamaerops humilis</i> )
,Pygmy Date	( <i>Phoenix roebelenii</i> )
,Queen	( <i>Anacardium romanoffianum</i> )
,Sago	( <i>Cycas revoluta</i> )
,Windmill	( <i>Trachycarpus fortunei</i> )
Palo Verde, Green	( <i>Parkinsonia aculeata</i> )
Paulownia Royal	( <i>Paulownia tomentosa</i> )
Pear, Common	( <i>Pyrus communis</i> )
,Evergreen	( <i>Pyrus kawakamii</i> )
,Ussurian	( <i>Pyrus ussuriana</i> )
Pepper, Brazilian	( <i>Schinus terebinthifolius</i> )
Pine, Aleppo	( <i>Pinus halapensis</i> )
,Austrian	( <i>Pinus nigra</i> )
,Canary Island	( <i>Pinus canariensis</i> )
,Caribbean-Slash	( <i>Pinus caribea</i> )
,Italian Stone	( <i>Pinus pinea</i> )
,Jack	( <i>Pinus banksiana</i> )
,Japanese Black	( <i>Pinus thunbergii</i> )
,Loblolly	( <i>Pinus taeda</i> )
,Mugho	( <i>Pinus mugo</i> )
,Ponderosa, Western yellow	( <i>Pinus ponderosa</i> )
,Red	( <i>Pinus resinosa</i> )
,Scotch	( <i>Pinus sylvestris</i> )
,Shore	( <i>Pinus strobus</i> )
,Slash	( <i>Pinus ellottii</i> )
,Southern	( <i>Pinus palustris</i> )

	, Virginia	( <i>Pinus virginiana</i> )
	, White	( <i>Pinus strobus</i> )
	, White, Japanese	( <i>Pinus parviflora</i> )
	, Yew	( <i>Podocarpus macrophyllus</i> )
Plum, Wild		( <i>Prunus americana</i> )
Poplar, Hybrid		( <i>Populus alba</i> )
Popular, Yellow, Tulip Tree		( <i>Liriodendron tulipifera</i> )
Purpleleaf, Bailey Acacia		( <i>Acacia baileyana</i> )
Redwood, Coast		( <i>Sequoia sempervirens</i> )
Sandcherry, Western		( <i>Prunus besseyi</i> )
Sensitive Plant		( <i>Mimosa pudica</i> )
Silk Tree		( <i>Albizia julibrissin</i> )
Spruce, Black Hills		(var. <i>Densata</i> ) ( <i>Picea glauca</i> )
	, Colorado Blue	( <i>Picea pungens</i> )
	, Norway	( <i>Picea abies</i> )
	, White	( <i>Picea glauca</i> )
Strawberry Tree		( <i>Arbutus unedo</i> )
Sumac, Standard, African		( <i>Rhus lancea</i> )
Sweet Gum		( <i>Liquidambar styracifluous</i> )
Sycamore		( <i>Platanus occidentalis</i> )
Tea Tree, Australian		( <i>Leptospermum laevigatum</i> )
Tipu Tree		( <i>Tipuana tipu</i> )
Walnut, Black		( <i>Juglans nigra</i> )
Weeping Fig, Exotica		( <i>Ficus benjamina</i> )
Willow		( <i>Salix matsudana tortuosa</i> )
	, Australian	( <i>Ceiba parviflora</i> )
	, Desert	( <i>Pittosporum phillyraeoides</i> )
	, Peppermint	( <i>Agonis flexuosa</i> )
Yate, Bushy		( <i>Eucalyptus lehmannii</i> )
Yew, English		( <i>Taxus baccata</i> )
<b>Shrub Species Tolerant to Vantage® herbicide</b>		
Abelia, Glossy		( <i>Abelia grandiflora</i> )
Acacia, Bailey		( <i>Acacia baileyana</i> )
	, Knife Leaf	( <i>Acacia cultriformis</i> )
	, Prostrate	( <i>Acacia redolens</i> )
	, Sydney Golden Wattle	( <i>Acacia longifolia</i> )
Andromeda		( <i>Pieris japonica</i> )
Arborvitae, Oriental		( <i>Platycladus orientalis</i> )
Arrowwood, Southern		( <i>Viburnum dentatum</i> )
Azalea, Mollis hybrid		( <i>R. x kosterianum</i> )
	, Northern Lights Hybrid	( <i>R x kosterianum x R prinophyllum</i> )
Bamboo, Heavenly		( <i>Nandina domestica</i> )
Barberry, Japanese		( <i>Berberis thunbergii</i> )
	, Korean	( <i>Berberis koreana</i> )
	, Redleaf	( <i>Berberis Virginiana</i> )
Bird of Paradise Bush		( <i>Caesalpinia gillesii</i> )
Bluebeard		( <i>Caryopteris clandonensis</i> )
Boxwood, Common		( <i>Buxus sempervirens</i> )
	, African	( <i>Myrsine africana</i> )
	, Japanese	(var. <i>japonica</i> ) ( <i>Buxus microphylla</i> )
Buckthorn, Glossy, Alder		( <i>Rhamnus frangula</i> )
Camellia		( <i>Camellia japonica</i> ) ( <i>Camellia sasanqua</i> )
Cedar, Eastern Red		(var. - <i>Pyramidiformis, canescens</i> )
Cherry, Brush		( <i>Juniperus virginiana</i> )
	, Manchu, Nanking	( <i>Eugenia myrtifolia</i> )
Chokeberry sp.		( <i>Prunus tomentosa</i> )
Copper Plant, Caribbean		( <i>Aronia melanocarpa</i> )
Cotoneaster, Bearberry		( <i>Euphorbia cotinifolia</i> )
	, Cranberry	( <i>Cotoneaster dammeri</i> )
	, Lowfast Peking	( <i>Cotoneaster apiculata</i> )
Coyote Bush		( <i>Cotoneaster acutifolia</i> )
Cranberry Bush, American		( <i>Baccharis pilularis</i> )
	, Golden	( <i>Viburnum trilobum</i> )
Crape Myrtle		( <i>Viburnum opulus aureum</i> )
Current, Alpine		( <i>Lagerstroemia indica</i> )
Dogwood, Red Osier		( <i>Ribes alpinum</i> )
Elaeagnus		( <i>Cornus stolonifera</i> )
Escallonia		( <i>Elaeagnus umbellata</i> )
Euonymus, Evergreen		( <i>Escallonia fradesii</i> ) ( <i>Escallonia rubra</i> )
	, Winged	(var. <i>Golden, Silver King</i> )
Fig, Creeping		( <i>Euonymus japonica</i> )
Firethorn		( <i>Euonymus alata</i> )
		( <i>Ficus repens</i> )
		( <i>Pyracantha graberi</i> )

Forsythia, Greenstem	( <i>Forsythia viridissima bronxensis</i> )
Flax, New Zealand	( <i>Phormium tenax</i> )
Fuchsia, Australian	( <i>Correa pulchella</i> )
Gardenia	(var. Mystery, Padicans)...( <i>Gardenia augusta</i> )
,Dwarf	( <i>Gardenia jasminoides</i> )
Gold Vine, Guinea	(var. Veitchii)( <i>Gardenia jasminoides</i> )
Hakes	( <i>Hibbertia scandens</i> )
Hawthom, Indian	( <i>Hakea protensa</i> )
Hibiscus, Blue	( <i>Phaphiopedilum indicum</i> )
, Chinese	( <i>Alyogyne huegelii</i> )
Holly, Dwarf Burford	( <i>Hibiscus rosa-sinensis</i> )
Honeysuckle, Bush	(var. Burfordii Nana)( <i>Ilex cornuta</i> )
' Cape	( <i>Ilex lonicerina</i> )
Hydrangea	( <i>Tecomantha capensis</i> )
Jasmine, Asiatic	( <i>Hydrangea macrophylla</i> )
,Orange	( <i>Trachelospermum asiaticum</i> )
,Star	( <i>Muraya paniculata</i> )
,Winter	( <i>Trachelospermum jasminoides</i> )
Jessamine, Carolina	( <i>Jasminum nudiflorum</i> )
Jojoba	( <i>Gelsemium sempervirens</i> )
Juniper, Chinese	( <i>Simmondsia chinensis</i> )
	(var. Maneyi, Old Gold, Phizerana, Sea Green, Hekii, Nana, Torulosa, Phizerana (Aurea, Pfl-er, Golden Pfler) ( <i>Juniperus chinensis</i> )
,Creeping	(var- Bluechip, Hughes, Plumosa, Prince of Wales, Webbeti, Wiltonii, Bar Harbor, Andorra, Variegata, Youngstown Blue Rug). ( <i>Juniperus horizontalis</i> )
,Ozark	( <i>Juniperus sp</i> )
Rocky Mountain	(var. Blue Heaven, Welchii, Wichita Blue, Medova, Moffet, Pyramidal Green, Springtime, Admiral) .... ( <i>Juniperus scopulorum</i> )
Juniper, Savin	(var- Skandia, Arcadia, Broadmoor, Buffalo, Pepin)( <i>Juniperus sabina</i> )
,Shore	(var. Compacta)( <i>Juniperus conferta</i> )
,Tam	(var. Tamariscifolia)( <i>Juniperus sabina</i> )
Lantana, Purple Trailing	( <i>Lantana montevidensis</i> )
Laurelinus	( <i>Viburnum tinus</i> )
Lemonade Berry	( <i>Rhus integrifolia</i> )
Lilac, Common Purple	( <i>Syringa vulgaris purpurea</i> )
Liriope, Green	( <i>Liriope muscari</i> )
, Variegated	( <i>Liriope muscari</i> )
Mickey Mouse Bush	( <i>Ochna semiloba</i> )
Mirror Plant	( <i>Coprosma repens</i> )
Mock Orange	( <i>Pitcairnia tobira</i> )
Mountain Lilac, Camel Creeper	( <i>Ceanothus griseus</i> )
Myrtle, Dwarf	( <i>Myrtus communis compacta</i> )
Nandina, Heavenly Bamboo	( <i>Nandina domestica</i> )
Nannyberry	( <i>Viburnum lantago</i> )
Ninebark	( <i>Physocarpus opulifolius</i> )(var Aureus)
	( <i>Physocarpus opulifolius nanus</i> )
Oleander	( <i>Nerium oleander</i> )
Orchid, rockrose	( <i>Cistus purpureus</i> )
Oregon Grape	( <i>Mahonia aquifolium</i> )
Osmanthus, Holly-leaf	( <i>Osmanthus heterophyilus</i> )
, Sweet Olive	( <i>Osmanthus fragrans</i> )
Palm, Natal	(var. Green Carpet Turtle)
Pampas Grass	( <i>Carissa grandiflora</i> )
Photinia	( <i>Cordyline sellowiana</i> )
, Fraser	( <i>Photinia sp</i> )
Pink Lady	( <i>Photinia Fraseri</i> )
Pink Powder Puff	( <i>Pithecellobium haematocephala</i> )
Pittosporum, Variegated Japanese	( <i>Pittosporum tobira variegata</i> )
Plumbago, Cape	( <i>Plumbago capensis</i> )
Podocarpus, Yew	( <i>Podocarpus macrophyllus</i> )
Princess Flower	( <i>Tibouchina urvilleana</i> )
Privet	( <i>Ligustrum Indica</i> )
,Glossy	(var. Lake Tresca)( <i>Ligustrum lucidum</i> )
,Japanese, Waxleaf	( <i>Ligustrum japonicum</i> )
,Texas	( <i>Ligustrum texanum</i> )
Purple Hop Bush	( <i>Dodonaea viscosa</i> )
Pyracantha	( <i>Pyracantha gracilis</i> )
Rhododendron - Azalea	(var. Hinocrimson, Hershey Red, Coral Blue, Hinodigiri, Christmas Cheer, Pink Ruffle, Formosa .... Flame, Delaware Valley White, New White) ( <i>Rhododendron sp</i> )
Sandcherry, Purpleleaf	( <i>Prunus cistena</i> )
Serviceberry, Allegheny	( <i>Amelanchier laevis</i> )
,Saskatoon	(var. Regent)( <i>Amelanchier alnifolia</i> )

Silver King	( <i>Euonymus japonica</i> )
Sky Flower, Brazilian	( <i>Duranta stenostachya</i> )
Snowball Bush	( <i>Viburnum opulus sterilis</i> )
Spindle Tree	( <i>Euonymus kiautschovicus</i> )
Spiraea	( <i>Spiraea vanhouttei</i> ) (var: Anthony Waterer, Froebellii, Goldflame) ( <i>Spiraea bumalda</i> ) ( <i>Spiraea trilobata</i> Lov.) (var Snowbound)      ( <i>Spiraea nipponica</i> Lov.) ( <i>Grewia occidentalis</i> ) ( <i>Leptospermum laevigatum</i> ) (var PL-dGlow) ( <i>Leptospermum scoparium</i> ) ( <i>Leucophyllum frutescens</i> ) ( <i>Heteromeles arbutifolia</i> ) ( <i>Pandorea rosea</i> ) ( <i>Hebe Coed</i> ) ( <i>Viburnum japonicum</i> ) ( <i>Viburnum suspensum</i> ) ( <i>Viburnum lantana</i> oides) ( <i>Ficus benjamina</i> ) (var - Wheeler) ( <i>Pittosporum tobira</i> ) ( <i>Tecoma stans</i> ) ( <i>Brunfelsia calycina</i> ) ( <i>Taxus cuspidata</i> Vigat.)
Star Plant, Lavender	
Tea Tree, Australian , New Zealand	
Texas Ranger	
Toyon, California Holly	
Trumpet Vine, Pink	
Veronica	
Viburnum, Japanese , Sandankwa	
Wayfaring Tree	
Weeping Fig, Exotica	
Wheelers Dwarf, Variegated	
Yellow Bells	
Yesterday-Today-and-Tomorrow..	
Yew	