

For Preemergent Weed Control in Turfgrasses, Landscape or Grounds Maintenance, Noncropland Areas and Ornamental Production

ACTIVE INGREDIENT:	
Pendimethalin, N-(1-ethylpropyl)-3,4-dimethyl-2, 6-dinitrobenzenamine	38.7%
OTHER INGREDIENTS:	61.3%
TOTAL:	100.0%
(1 gallon contains 3.8 lbs. of microencapsulated pendimethalin in an aqueous carrier.)	

EPA Reg. No. 70506-230

KEEP OUT OF REACH OF CHILDREN CAUTION/PRECAUCIÓN

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

	FIRST AID		
If in eyes	Hold eye open and rinse slowly and gently with water for 15 - 20 minutes.		
	Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye.		
	Call a poison control center or doctor for treatment advice.		
Have the product container or label with you when calling a poison control center or doctor or going for treatment. For medical treat- ment, call the Rocky Mountain Poison Control Center at 1-866-673-6671.			

FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident, call CHEMTREC 1-800-424-9300.



Net Contents:



PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS CAUTION

Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing.

Personal Protective Equipment (PPE):

Some materials that are chemically resistant to these products are listed below. For more options, refer to Category A on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

- · Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material such as nitrile, butyl, neoprene, and/or barrier laminate
- Shoes plus socks

Follow manufacturer's instruction for cleaning and maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

ENGINEERING CONTROLS

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

This product is toxic to fish. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent aquatic sites. Do not contaminate water when disposing of equipment washwaters or rinsate.

DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling. This labeling must be in the possession of the user at time of herbicide application.

Do not apply this product through any type of irrigation system.

UPI does not authorize the use of this product in manufacturing, processing or preparing custom blends with other products for application to turf or ornamentals.

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 requirements specific to your state or tribe, consult the state or tribal agency responsible for pesticide regulation.

Do not apply **UP-End HydroCap** in greenhouses, shadehouses or other enclosed structures.

Not for use for commercial seed production.

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), 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 restrictedentry interval (REI) of 24 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:

Coveralls

• Chemical-resistant gloves made of any waterproof material such as nitrile, butyl, neoprene, and/or barrier laminate

· Shoes plus socks

NON-AGRICULTURAL 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, forests, nurseries, or greenhouses.

Do not enter treated areas without protective clothing until sprays have dried.

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR WEED CONTROL OR CROP INJURY.

MODE OF ACTION

UP-End HydroCap is a meristematic inhibitor that interferes with the plant cellular division or mitosis and cell elongation in the growing points of shoots and roots of susceptible weeds. When susceptible weeds germinate in the treated area, they contact the herbicide and both shoot and root growth stops. Translocation of the herbicide within the plant is limited. Affected weeds die shortly after growth is stopped, usually before emergence from the soil.

PRODUCT INFORMATION

APPLICATION USE SITES – for preemergence control of grasses and certain broadleaf weed species as they germinate.

Turfgrass sites (golf course, lawns, sod farms and other turf areas) and landscape ornamental maintenance areas. Such sites include, but are not limited to: grounds or lawns around residential and commercial establishments, multifamily dwellings, military and other institutions, parks, airports, roadsides, schools, picnic grounds, athletic fields, houses of worship, cemeteries, golf courses, prairie grass areas and sod farms.

Grounds maintenance in areas such as parking lots, driveways and roadsides, alleyways, bike and jogging paths, vacant lots, buildings, stone gardens and gravel yards, markers and fence lines, and mulch beds. It may be used under asphalt or concrete treatments as part of a site preparation program. **Noncropland areas** such as railroad, utility, highway, and pipeline rightsof-way, highway guardrails, delineators, and sign posts, bridge abutments and approaches, utility substations, petroleum tank farms, pumping installations, storage areas, fence rows, windbreaks and shelterbelts, paved or gravel surfaces, and established wildflower plantings where weed control is desired.

Bulb plantings, non-bearing fruit and nut tree nurseries, conifer and hardwood seedling nurseries and tree plantations for site preparation and maintenance. Applications can be made on, but are not limited to, plant species listed on this label such as trees, shrubs, groundcovers, perennials, bulbs, ornamental grasses and bedding plants.

In and around field, liner and container ornamental production.

APPLICATION INSTRUCTIONS

UP-End HydroCap will not control established weeds. Therefore, areas to be treated should be free of established weeds at the time of treatment, or use **UP-End HydroCap** together with herbicides registered for postemergence use in managed turf sites, landscape ornamentals and in other noncropland areas. Consult the labels of those herbicides for suggested treatments, rates to be used and precautions or restrictions for use in these areas. The efficacy of **UP-End HydroCap** will be best if the application is followed by one-half inch of rainfall or its equivalent in sprinkler irrigation. If **UP-End HydroCap** is not activated by rainfall or irrigation within 30 days, weed control may be erratic.

When applied according to label directions and under normal growing conditions, **UP-End HydroCap** or **UP-End HydroCap** tank-mix combinations will not cause crop injury. Over-application can cause crop stand loss, crop injury, or soil residues. Uneven application can decrease weed control or cause crop injury.

Seedling diseases, cold weather, excessive moisture, high soil pH, high soil salt concentration, or drought can weaken seedlings and plants, and increase the possibility of plant damage from **UP-End HydroCap**.

MIXING INSTRUCTIONS

UP-End HydroCap may be applied in a tank mix or a sequential application with other herbicides registered for use in a given crop. Refer to the companion label for weeds controlled in addition to **UP-End HydroCap** alone.

When using tank mixtures or sequential applications with **UP-End HydroCap**, always read the companion product label(s) to determine the specific use rates by soil types, weed species, and weed or crop growth stage. In addition, follow all precautions and restrictions including state and local use restrictions that may apply to specific products. Always follow the most restrictive label.

Mixing Instructions

- Fill tank 1/2 to 3/4 full with clean water or liquid fertilizer and agitate. Before mixing UP-End HydroCap or UP-End HydroCap tank mixtures in liquid fertilizer, refer to appropriate label sections for recommended uses in liquid fertilizer, application instructions, and compatibility determinations.
- 2. UP-End HydroCap

When using **UP-End HydroCap** alone, add **UP-End HydroCap** to the partially filled tank while agitating and then fill the remainder of the tank with water or liquid fertilizer. 3. UP-End HydroCap Tank Mixes

Add the tank mixture ingredients in the order listed below before adding **UP-End HydroCap**:

- (a) Wettable Powder (WP) formulations make a slurry of the WP in water (1:2 ratio). Add the slurry slowly into the partially filled tank while agitating.
- (b) Dry Flowable (DF)/Water Dispersible Granule (WDG) formulations - add the granules to the partially filled tank while agitating. Make a slurry of the granules in water before adding to liquid fertilizer.
- (c) **Flowable (F) formulations** add the F formulation to the partially filled tank while agitating.
- (d) Add UP-End HydroCap to the partially filled tank while agitating.
- (e) Water Soluble Concentrate (WSC) formulations add the WSC formulation to the partially filled tank while agitating.
- (f) **Emulsifiable Concentrate (EC) formulations** add the EC formulation to the partially filled tank while agitating.

Fill the remainder of the tank with water or liquid fertilizer while agitating.

4. Maintain continuous agitation while adding herbicides and until spraying is completed. If the spray mixture is allowed to settle for any period of time, agitate thoroughly to resuspend the mixture before spraying is resumed.

5. BACKPACK SPRAYER

Begin with a clean spray tank. Fill the spray tank one-half full with clean water and add the required amount of **UP-End HydroCap**. Cap sprayer and agitate to ensure mixing. Uncap sprayer and finish filling tank to desired level. Cap sprayer and agitate again. During application it is desirable to agitate the mixture on occasion to ensure mixing. If the spray mixture is allowed to settle for any period of time, agitate thoroughly before spraying is resumed.

6. LIQUID FERTILIZERS

Before mixing, always test small quantities using a simple jar test. Add the required amount of **UP-End HydroCap** to a half filled spray tank while agitating; then add the fertilizer product. Complete filling spray tank to desired level.

SPRAYING INSTRUCTIONS

GROUND APPLICATIONS

Apply with properly calibrated ground equipment in sufficient water per acre to uniformly treat the area, using a spray pressure of 25 to 50 psi. Suggested spray volumes are 20 - 200 gpa for professional turfgrass, land-scape and ornamental applications and 10 - 200 gpa for all other noncrop applications such as roadsides, utility rights-of-way or soft-residual bare-ground applications. Maintain continuous agitation during spraying with good mechanical or bypass agitation. Avoid overlaps that will increase rates above those listed. Do not apply when winds may cause drift.

Avoid contact of spray solution with driveways, stone, wood, or other porous surfaces. If contact occurs, rinse immediately with water to avoid staining. Do not mechanically scrub until the surface area is thoroughly rinsed. Allow treated turfgrass to dry before entering to avoid staining onto non-treated surfaces.

AERIAL APPLICATIONS

Apply uniformly in 5 or more gallons of water per acre. Take care to minimize drift. Do not apply during periods of gusty winds or when wind conditions favor drifting. Spray drift can cause injury to sensitive crops. To avoid overlapping and possible crop injury, use a flagman or an automatic mechanical flagging unit on the aircraft.

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment- and weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions. The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops:

- 1. The distance of the outermost nozzles on the boom must not exceed 3/4 the length of the wingspan or rotor.
- 2. Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees.

Observe more stringent state regulations. The applicator must be familiar with and take into account the information covered in the Aerial Drift Reduction Advisory Information presented below.

INFORMATION ON DROPLET SIZE:

The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see **WIND**, **TEM-PERATURE AND HUMIDITY**, and **TEMPERATURE INVERSIONS**).

CONTROLLING DROPLET SIZE

- Volume Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- Pressure Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types, lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
- Number of Nozzles Use the minimum number of nozzles that provide uniform coverage.
- Nozzle Orientation Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is recommended practice. Significant deflection from the horizontal will reduce droplet size and increase drift potential.
- Nozzle Type Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using lowdrift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift.

BOOM LENGTH

For some use patterns, reducing the effective boom length to less than 3/4 of the wingspan or rotor length may further reduce drift without reducing swath width.

APPLICATION HEIGHT

Do not apply at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

SWATH ADJUSTMENT

When applications are made with a crosswind, the swath will be displaced downward. Therefore, on the upwind and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Increase swath adjustment distance with increasing drift potential (higher wind, smaller droplets, etc.).

WIND

Drift potential is lowest between wind speeds of 2 - 10 mph. However, many factors, including droplet size and equipment type, determine drift potential at any given speed. Do not apply when wind is below 2 mph due to variable wind direction and high inversion potential. **NOTE:** Local terrain can influence wind patterns. Every applicator must be familiar with local wind patterns and how they affect spray drift.

TEMPERATURE AND HUMIDITY

When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

TEMPERATURE INVERSIONS

Do not apply during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

SENSITIVE AREAS

Apply the pesticide only when the potential for drift to adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, or non-target crops) is minimal (e.g. when wind is blowing away from the sensitive areas).

WEED SPECIES CONTROLLED

UP-End HydroCap will not control established weeds. If weeds germinate before activation of herbicide, shallow cultivate to destroy existing weeds or, where practical, remove by hand. Any necessary cultivation must be shallow. **UP-End HydroCap** may be used together with herbicides registered for postemergence use (i.e. glyphosate or Finale) for the control of established weeds. Do not apply sprays containing glyphosate or Finale over the top of desirable plants. A **UP-End HydroCap** treatment may be followed by any registered herbicide to control weeds not listed on the **UP-End HydroCap** label.

The efficacy of **UP-End HydroCap** will be best if the application is followed by one-half inch of rainfall or its equivalent in sprinkler irrigation. Erratic weed control may result if **UP-End HydroCap** is not activated by rainfall or irrigation within 30 days.

The following grass and broadleaf weeds are controlled by preemergence treatments of **UP-End HydroCap** at the rates specified in this label:

GRASSES CONTROLLED

Common Name	Scientific Name
Barnyardgrass	Echinochloa crus-galli
Bluegrass, Annual	Poa annua
Crabgrass	<i>Digitaria</i> spp.
Crowfootgrass	Dactyloctenium aegyptium
Foxtail, Giant	Setaria faberi
Foxtail, Green	Setaria viridis
Foxtail, Yellow	Setaria glauca
Goosegrass	Eleusine indica
Itchgrass	Rottboellia exaltata
Johnsongrass (from seed)	Sorghum halepense
Junglerice	Echinochloa colona
Lovegrass (from seed)	<i>Eragrostis</i> spp.
Panicum, Browntop	Panicum fasciculatum
Panicum, Fall	Panicum dichotomiflorum
Panicum, Texas	Panicum texanum
Sandbur, Field	Cenchrus incertus
Signalgrass	Brachiaria platyphylla
Sprangletop, Mexican	Leptochloa uninervia
Sprangletop, Red	Leptochloa filiformis
Witchgrass	Panicum capillare
Woolly Cupgrass	Eriochloa villosa

BROADLEAF WEEDS CONTROLLED

Common Name	Scientific Name
Burweed, Lawn	Soliva pterosperma
Carpetweed	Mollugo verticillata
Chickweed, Common	Stellaria media
Chickweed, Mouseear	Cerastium vulgatum
Clover, Hop	Trifolium procumbens
Cudweed	<i>Gnaphalium</i> spp.
Evening primrose	Oenothera biennis
Fiddleneck	Amsinckia intermedia
Filaree	<i>Erodium</i> spp.
Henbit	Lamium amplexicaule
Knotweed, prostrate	Polygonum aviculare
Kochia	Kochia scoparia
Lambsquarters	Chenopodium album
Pigweed	Amaranthus spp.
Puncturevine	Tribulus terrestris
Purslane	Portulaca oleracea
Pusley, Florida	Richardia scabra
Rocket, London	Sisymbrium irio
Shepherdspurse	Capsella bursa-pastoris
Smartweed, Pennsylvania	Polygonum pensylvanicum
Speedwell, Corn	Veronica arvensis
Spurge, Annual	<i>Euphorbia</i> spp.
Spurge, Prostrate	Euphorbia humistrata
Woodsorrel, Yellow	Oxalis stricta
Velvetleaf (Buttonweed)	Abutilon theophrasti

TABLE 1. RESIDENTIAL, GOLF COURSE, COMMERCIAL AND OTHER NON-RESIDENTIAL TURFGRASS USES

Application Rates For Preemergence Weed Control

UP-End HydroCap ¹					
		fl. oz. pints			
Turfgrass Species	Weeds	Product per 1,000 sq. ft.	Product per acre	Comments	
COOL SEASON GRASSES				•	
Bluegrass, Kentucky	Barnyardgrass	All Turf Uses:		Make a repeat application of 2.2 to	
Fescue, Fine Fescue, Tall	Crabgrass Evening Primrose	1.1 to 1.6 fl. oz.	3.1 to 4.2 pints	3.1 pints/Acre (0.86 to 1.1 fl. oz./ 1,000 sq. ft.) after 5 - 8 weeks for extended control or where heavy weed infestations are expected.	
Ryegrass, Perennial	Fall Panicum Foxtail Hop Clover Knotweed Oxalis <i>Poa annua</i> Prostrate Spurge Purslane	Initial application before we	ed germination in spring.		
	Goosegrass	Residential and Sod F	arm Turf Uses Only ² :	Make a repeat application of	
		1.1 to 1.6 fl. oz.	3.1 to 4.2 pints	3.1 pints/Acre (1.1 fl. oz./1,000 sq. ft.) if the lower rate was used initially or	
		Golf Course, Comn Non-Residential		for extended goosegrass control after 5 - 8 weeks.	
		1.1 to 2.3 fl. oz.	3.1 to 6.3 pints		
		Initial application before we	ed germination in spring.	J.	
	Chickweed	All Turf	All Turf Uses:		
	Corn Speedwell Cudweed Henbit Lawn Burweed <i>Poa annua</i>	1.1 to 1.6 fl. oz.	3.1 to 4.2 pints	before weed germination. Apply a repeat application of 3.1 to 4.2 pints/Acre (1.1 to 1.6 fl. oz./ 1,000 sq. ft.) after 5 - 8 weeks for extended <i>Poa annua</i> control.	
Bentgrass or established	Barnyardgrass	All Turf Uses (Non-Greens and Tees):		Make a repeat application of 2.2 to	
<i>Poa annua</i> ³ $(1/2 \text{ inch height or taller})$	Crabgrass Evening Primrose	1.1 fl. oz.	3.1 pints	3.1 pints/Acre (0.86 to 1.1 fl. oz./	
	Fall Panicum Foxtail Hop Clover Knotweed <i>Poa annua</i> Oxalis Prostrate Spurge Purslane	Initial application before we	ed germination in spring.	1,000 sq. ft.) after 5 - 8 weeks for extended control or where heavy weed infestations are expected.	
	Goosegrass	All Turf Uses (Non-G	Greens and Tees):	Apply a repeat application of	
		1.1 fl. oz.	3.1 pints	3.1 pints/Acre (1.1 fl. oz./1,000 sq. ft. for extended goosegrass control	
		Initial application before weed germination in spring.		after 5 - 8 weeks.	
	Chickweed	All Turf Uses (Non-Greens and Tees):		Apply in late summer or early fall	
	Corn Speedwell Cudweed Henbit Lawn Burweed <i>Poa annua</i>	1.1 to 1.6 fl. oz.	3.1 to 4.2 pints	before weed germination.	

(continued)

TABLE 1. RESIDENTIAL, GOLF COURSE, COMMERCIAL AND OTHER NON-RESIDENTIAL TURFGRASS USES

Application Rates For Preemergence Weed Control (continued)

		UP-End HydroCap ¹	1	
		fl. oz.	pints	
Turfgrass Species	Weeds	Product per 1,000 sq. ft.	Product per acre	Comments
WARM SEASON GRAS	SES			
Bahiagrass	Barnyardgrass	Residential and Sod F	arm Turf Uses Only:	Make a repeat application of 2.2 to
Bermudagrass Buffalograss	Crabgrass Evening Primrose	1.1 to 1.6 fl. oz.	3.1 to 4.2 pints	3.1 pints/Acre (0.86 to 1.1 fl. oz./ 1,000 sq. ft.) after 5 - 8 weeks if
Centipedegrass Fescue, Tall	Fall Panicum Foxtail	Golf Course, Commercial and Other Non-Residential Turf Uses Only:		necessary.
<i>Paspalum</i> , seashore St. Augustinegrass	Hop Clover Knotweed	1.1 to 2.3 fl. oz.	3.1 to 6.3 pints	
Zoysiagrass	<i>Poa annua</i> Oxalis Prostrate Spurge Purslane	Initial application before we	ed germination in spring.	
	Goosegrass	All Turf Uses (Non-C	Greens and Tees):	An additional application of
		1.1 fl. oz.	3.1 pints	3.1 pints/Acre (1.1 fl. oz./1,000 sq. ft.) may be made for extended goosegrass control 8 weeks after the second application.
		Apply before weed germina Make a second application a 1,000 sq. ft.) 5 - 8 weeks la	at 3.1 pints (1.1 fl. oz./	
	Chickweed	All Turf	Uses:	Apply in late summer or early fall
	Corn Speedwell Cudweed Henbit Lawn Burweed <i>Poa annua</i>	1.1 to 1.6 fl. oz.	3.1 to 4.2 pints	before weed germination. Make a repeat application of 3.1 to 4.2 pints/Acre (1.1 to 1.6 fl. oz./ 1,000 sq. ft.) 5 - 8 weeks for extended <i>Poa annua</i> control.

¹ Do not use more than 4.2 pints (2.1 quarts) per acre per application on residential and sod farm turfgrass.

Do not use more than 6.3 pints (3.1 quarts) per acre per application on golf course turfgrass, commercial or other non-residential turfgrass.

² Residential is defined as turf in any residential situation as well as home lawns, schools, parks and playgrounds.

³ Not for use on bentgrass or *Poa annua* greens or tees.

The efficacy of **UP-End HydroCap** is best if the application is followed by one-half inch of rainfall or its equivalent in sprinkler irrigation. If **UP-End HydroCap** is not activated by rainfall or irrigation within 30 days, weed control may be erratic.

To prevent establishment of weeds along the edges of treated area it may be necessary to overlap the spray three to six inches onto sidewalks or driveways, etc., to ensure effective application rates in these especially vulnerable sites. Where temporary discoloration of pavement is undesirable, <u>Do not</u> <u>rub or scrub surface</u>, <u>but rinse area immediately using a heavy spray of water</u> to avoid staining. Allow treated turfgrass to dry before entering to avoid staining non-treated surfaces.

TURFGRASS TANK MIXES

UP-End HydroCap can be mixed with postemergence herbicides to control emerged weeds in non-residential turfgrasses. For annual grass control, applications can be made with DRIVE[®] or MSMA to control emerged weeds.

Broadleaf weeds can be controlled using Trimec, Three Way, 2-4,D and other similar products.

Before tank mixing, perform a simple jar test to insure compatibility of herbicides.

Refer to manufacturers' labels for specific use directions, precautions, and limitations before tank mixing with **UP-End HydroCap** and follow those that are most restrictive.

TURFGRASS RESTRICTIONS

- Use on well established turfgrass with a dense and uniform stand. If turf has been thinned or damaged due to winter injury, excessive moisture, etc., allow turf to recover before application.
- On newly planted areas, do not apply until the turfgrass has filled in and has been mowed at least four times. Applications made to overseeded warmseason turfgrasses may cause thinning or injury of the overseeded species.
- Do not use on bentgrass or Poa annua greens and tees or injury may occur.
- Delay reseeding or winter overseeding of treated turfgrass for at least three (3) months following the last UP-End HydroCap application.
- Delay sprigging turfgrass for five (5) months after application.

LANDSCAPE AND GROUNDS MAINTENANCE

UP-End HydroCap can be incorporated into landscape and grounds maintenance programs to provide extended preemergence control of most annual grasses and certain broadleaf weeds in areas such as mulch beds, parking areas and roadsides, fencelines and borders, and around statuary or monuments. Ensure that these areas are free of emerged weeds before application. To remove emerged weeds either cultivate or tank mix **UP-End HydroCap** with a postemergence product labeled for such use.

Not all ornamental species or cultivars of species have been tested for plant safety. Refer to the list of ornamental plant species found in this label. While **UP-End HydroCap** may be used on plant species not listed on this label, a small number of plants should be tested at the specified rate to evaluate suitability before a broad-use application is made.

Refer to **Table 2. Application Rates for Weed Control in Ornamental Plantings, Tree Plantations and Other Noncropland Areas**. Avoid contact of spray solution with stone, wood, or other porous surfaces as staining may occur. Rinse surfaces immediately using a heavy spray of water to avoid staining.

ORNAMENTAL PLANTINGS AND TREE PLANTATIONS INCLUDING NONCROPLAND AREAS

Use **UP-End HydroCap** for grounds maintenance in noncropland areas, preemergence control of the weed species listed in and around established tree plantations for site preparation, and maintenance and conifer and hardwood seedling nurseries and pulpwood and fiber farms. **UP-End HydroCap** may be used for hardwood and conifer regeneration on conservation reserve program (CRP) land. **UP-End HydroCap** can also be used in Christmas trees and non-bearing fruit and nutcrops and vineyards established, or bulb and wildflower field plantings, and in and around established ornamentals planted in noncropland areas such as highway rights-of-way and utility substations. Refer to **Table 2. Application Rates for Weed Control in Ornamentals Plantings, Tree Plantations and Other Noncropland Areas**.

Applications at planting or to established trees: When applying at planting, it is important that slit closure be achieved to prevent UP-End HydroCap from directly contacting the tree roots or being washed into the root zone via the open slit or root stunting may occur. Refer to section on Instructions and Restrictions in Landscape and Ornamental Plantings before making an application.

For postemergence control of weeds, use tank-mix combinations of **UP-End HydroCap** plus VANTAGE[®], Roundup[®], Finale[®], or other labeled herbicides. Refer to approved labeling for species recommendations. Determine rates for the tank mix compounds from the product labels of both **UP-End HydroCap** and partner herbicides before use. Take care to prevent combination sprays from direct contact with desirable foliage or injury may result. **UP-End HydroCap** plus diuron or simazine combinations will broaden weed control spectrum, however, use of combinations may restrict **UP-End HydroCap** usage in sensitive areas. Refer to manufacturers' labels for specific use directions, precautions, and limitations before use and follow those that are most restrictive.

ORNAMENTAL BULBS

UP-End HydroCap may be applied for control of susceptible annual weeds in ornamental bulbs listed under the Perennial section on the label (crocus, daffodil [narcissus], gladiolus, lilies, tulip, etc.). Apply **UP-End HydroCap** before, during or after bulb emergence. If weeds have already germinated add a labeled postemergence herbicide to control emerged weeds.

WILDFLOWERS

UP-End HydroCap may be applied for control of susceptible annual weeds in plantings of wildflowers listed in the Perennial section on the label. Those perennial species noted (*Black-eyed Susan, California Poppy, Coreopsis, Oxeye Daisy, etc.) have been evaluated for plant tolerance to applications of **UP-End HydroCap** at 4.2 pints (2.1 quarts) per acre. **UP-End HydroCap** may be applied to established perennial wildflowers before emergence of weeds or wildflowers. For wildflowers being established from seed, apply **UP-End HydroCap** no sooner than 4 weeks after wildflowers have emerged but before weed germination. If weeds have already germinated, add a labeled postemergence product to control emerged weeds. Refer to all label restrictions before making an application.

Due to the diversity of species and varieties which exist in areas where wild-flowers are grown, the response to **UP-End HydroCap** may vary greatly. Test desirable species carefully to determine if area-wide applications can be made.

NON-BEARING FRUIT AND NUTCROPS AND VINEYARDS

UP-End HydroCap may be applied for preemergence control of most annual grasses and certain broadleaf weeds on the following non-bearing crops:

Almond	Citrus	Olive	Pistachio
Apple	Fig	Peach	Plum
Apricot	Grape	Pear	Prune
Cherry	Nectarine	Pecan	Walnut, English

NON-CROPLAND WEED CONTROL

Use **UP-End HydroCap** for preemergence control of most annual grasses and certain broadleaf weeds as they germinate on noncropland areas such as railroad, utility, highway, and pipeline rights-of-way, highway guardrails, delineators, and sign posts, utility substations, petroleum tank farms, pumping installations, fence rows, storage areas, windbreaks and shelterbelts.

INDUSTRIAL (UNIMPROVED) TURF

UP-End HydroCap will provide preemergence control of the annual grasses and broadleaf weeds listed in **Weed Species Controlled** section of this label that might germinate in established grasses in rights-of-way, roadsides, construction sites, parks, substations or lots.

Apply before weeds germinate. A postemergence herbicide such as 2,4-D, DRIVE[®], VANTAGE[®], MSMA, or similar products may be tank mixed to control established weeds. Apply according to label instructions for the respective products and follow the most restrictive wording.

TOTAL VEGETATION CONTROL

UP-End HydroCap may be tank mixed with ARSENAL[®], SAHARA[®], PLATEAU[®], VANTAGE[®], Roundup[®] PRO, Karmex[®], Finale[®], Oust[®], diuron, glyphosate or other products to provide bare ground, or total vegetation control. **UP-End HydroCap** can be used to provide greater plant selectivity in areas where such action may be desired. Such sites might have roots of landscape vegetation, ornamentals, or desirable trees encroaching into the treated zone. Refer to tank mix partner labels regarding effects on desirable plants. Do not tank mix with ARSENAL, SAHARA or PLATEAU herbicides in California.

Applications may be made to existing weeds controlled by the partner herbicide. Determine rates from the product labels before use. Follow the most restrictive label instructions.

For Kochia control, use a combination of **UP-End HydroCap** with ARSENAL herbicide or diuron if control has been a problem for other herbicides.

TABLE 2. APPLICATION RATES FOR WEED CONTROL IN LANDSCAPE ORNAMENTALS, TREE PLANTATIONS, AND OTHER NONCROP AREAS*

For preemergence control of the weed species listed, apply **UP-End HydroCap** as follows:

Length of Control	Product per Acre	Product per 1,000 sq. ft.
Short Term Control (2 - 4 months)	2.1 Quarts	1.6 fl. oz.
Long Term Control (6 - 8 months)	4.2 Quarts	3.2 fl. oz.

* For all turfgrass weed control rates, refer to Table 1 instructions.

For extended weed control, repeat applications of **UP-End HydroCap** can be made.

INSTRUCTIONS AND RESTRICTIONS LANDSCAPE AND ORNAMENTAL PLANTINGS¹

Site	Application Instructions and Restrictions
Landscape Plantings ²	Do not apply to newly-transplanted ornamentals until plants have been watered and soil has been thoroughly packed and settled around roots. Apply as a directed or over-the-top spray. Use the lowest labeled rate when making applications to annuals. Repeat applications can be made for extended landscape weed control.
Ornamental Bulbs ³	UP-End HydroCap may be applied to bulb species listed on the label. Apply before, during or after bulb emergence, but not during bloom.
Wildflowers ³	UP-End HydroCap may be applied in plantings of wildflowers listed on the label. Refer to specific instructions for rate and plant tolerance. For wildflowers being established from seed, apply at 4 weeks after wildflowers have germinated, but before weed seed germination.

- ¹ Plant only those desirable plant species listed on this label into soil treated the previous season with **UP-End HydroCap** or injury may occur.
- ² Do not treat plants grown for food or feed. Do not use treated plants for food or feed.
- ³ Before treating a large number of plants, spray a few plants and observe for 1 2 months for plant damage before full-scale application.

HAND-HELD SPRAY EQUIPMENT:

Refer to **Table 2** to determine the amount of **UP-End HydroCap** to be applied per 1,000 square feet, in sufficient water for thorough coverage without runoff. Calibration of backpack or other hand-held equipment will vary with each operator. Determine the amount of water needed to treat 1,000 square feet before mixing the spray solution. Follow information in **MIXING INSTRUCTIONS** section of this label.

COMMERCIAL ORNAMENTAL PRODUCTION

GENERAL INFORMATION

Application Use Sites: UP-End HydroCap can be used in and around field, liner and container ornamental production.

UP-End HydroCap sprays may be used around and over the top of the established plants listed in **Table 4** of this label. However, not all varieties or strains of the plant species listed have been tested. Refer to ornamental instructions and restrictions in this label before any application of **UP-End HydroCap**. Unintentional consequences such as crop injury may result because of certain environmental or growing conditions, manner of use or application. Therefore, before treating a large number of plants, spray a few plants and observe for plant damage before full-scale application.

APPLICATION INSTRUCTIONS

UP-End HydroCap will not control established weeds. Therefore, ensure that areas to be treated are free of established weeds at the time of treatment, or **UP-End HydroCap** may be used together with herbicides registered for postemergence use in ornamentals and vegetation control sites. Consult the labels of those herbicides for suggested treatments, rates to be used and precautions or restrictions for use in these areas.

The efficacy of **UP-End HydroCap** will be best if the application is followed by one-half inch of rainfall or its equivalent in sprinkler irrigation. If **UP-End HydroCap** is not activated by rainfall or irrigation within 30 days, erratic weed control may result.

Applied according to label directions and under normal growing conditions, **UP-End HydroCap** or **UP-End HydroCap** tank-mix combinations will not cause crop injury. Over-application can result in crop stand loss, crop injury, or soil residues. Uneven application can decrease weed control or cause crop injury.

Seedling diseases, cold weather, excessive moisture, high soil pH, high soil salt concentration, or drought can weaken seedlings and plants, and increase the possibility of plant damage from **UP-End HydroCap**.

SPRAYING INSTRUCTIONS

Apply uniformly with properly calibrated ground equipment in suggested spray volumes of 20 - 200 gpa for ornamental applications to uniformly treat the area with a spray pressure of 25 to 50 psi. Maintain continuous agitation during spraying with good mechanical or bypass agitation. Avoid overlaps that will increase rates above those specified. Avoid application when winds may cause drift.

Avoid contact of spray solution with driveways, stone, wood, or other porous surfaces. Rinse immediately with water to avoid staining. Avoid mechanically scrubbing until surface area is thoroughly rinsed using a heavy spray of water.

INSTRUCTIONS AND RESTRICTIONS¹ IN PRODUCTION ORNAMENTALS

Site	Application Instructions and Restrictions
Newly-Transplanted Field-Grown Nursery Stock ^{2,3}	Do not make over-the-top applications at time of field transplanting. Use shielded sprayer until plantings have been established for one (1) year or more in the field. Do not apply until transplants have been watered and soil has been thoroughly packed and settled around transplants. Take care to ensure there are no cracks in the soil where UP-End HydroCap could come into contact with the roots. DO NOT apply during bud swell, bud break or at time of first flush of new growth. Direct sprays away from grafted or budded tissue on transplants at all times.
Newly-Transplanted Container-Grown Nursery Stock ^{2,3}	Do not apply until transplants have been watered and soil has been thoroughly packed and settled around transplants. Care must be taken to ensure there are no cracks in the soil where UP-End HydroCap could come into contact with the roots. For container grown ornamentals, delay first application of the product to bareroot liners for two (2) weeks after transplanting. Do not apply during bud swell, bud break or at time of first flush of new growth. Direct sprays away from grafted or budded tissue on transplants at all times.
Established Container, or Field-Grown Nursery Stock ^{2,3}	Do not apply during bud swell, bud break or at time of first flush of new growth. Apply as a directed or over-the-top spray. If newly budded or grafted rootstock, make an application using a shielded sprayer. Take care to ensure there are no cracks in the soil where UP-End HydroCap could come into contact with the roots.
Bare Ground for Container Placement	Apply to soil then water in (including mulch, gravel, wood chips, or other permeable base), replace containerized ornamentals onto pad.

Do not apply in greenhouses, shadehouses or	other enclosed structures.
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¹ Plant only those desirable plant species listed on this label into soil treated the previous season with **UP-End HydroCap** or injury may occur.

² Before treating a large number of plants, spray a few plants and observe for 1 - 2 months for plant damage before full-scale application.

³ Do not treat plants grown for food or feed. Do not use treated plants for food or feed.

Refer to Table 3. Application Rates for Weed Control in Production Ornamentals.

ORNAMENTAL TANK MIXES

Emerged weeds in ornamentals can be controlled using tank mixes containing VANTAGE[®], Roundup[®], Finale[®], Ornamec[®], Gallery[®], Princep[®], and other similar products. Do not apply sprays containing Roundup or Finale over the top of ornamental plants.

Before tank mixing, perform a simple jar test to insure compatibility of herbicides.

Refer to manufacturers' labels for specific use directions, precautions, and limitations before tank mixing with **UP-End HydroCap** and follow those that are most restrictive.

CHRISTMAS TREE PLANTATIONS

UP-End HydroCap may be used in and around Christmas tree plantations. **UP-End HydroCap** may be applied at planting or to established trees. When making an application at planting, it is important that slit closure be achieved to prevent **UP-End HydroCap** from directly contacting the tree roots or being washed into the root zone via the open slit or root stunting may occur.

For postemergence control of weeds, use tank-mix combinations of **UP-End HydroCap** plus VANTAGE, Roundup, Finale, or other labeled herbicides. Refer to approved labeling for species information. Determine rates for the tank-mix compounds from the product labels of both **UP-End HydroCap** and partner herbicides before use. Precaution must be exercised to prevent combination sprays from direct contact with desirable foliage or injury may result. **UP-End HydroCap** plus diuron or simazine combinations may restrict **UP-End HydroCap** usage in sensitive areas. Refer to manufacturers' labels for specific use directions, precautions, and limitations before use and follow those that Refer to **Table 3. Application Rates for Weed Control in Production Ornamentals**.

VEGETATION CONTROL IN ORNAMENTAL PRODUCTION

UP-End HydroCap may be used for preemergence control of most annual grasses and certain broadleaf weeds as they germinate on noncropland areas such as sign posts, pumping installations, fence rows, storage areas, and windbreaks and shelterbelts. **UP-End HydroCap** may be tank mixed with VANTAGE, Roundup PRO, Karmex^{®3}, Finale^{®4}, diuron, glyphosate or other products to provide bare ground or total vegetation control, or can be used to provide greater plant selectivity in areas where such action may be desired. Such sites might have roots of landscape vegetation, ornamentals, or desirable trees encroaching into the treated zone. Refer to tank mix partner labels regarding effects on desirable plants. Applications may be made to existing weeds controlled by the partner herbicide. Determine rates from the product labels before use. Follow the most restrictive label instructions. Refer to **Table 3. Application Rates For Weed Control In Production Ornamentals**.

TABLE 3. APPLICATION RATES FOR WEED CONTROL IN PRODUCTION ORNAMENTALS*

For preemergence control of the weed species listed, apply **UP-End HydroCap** at the following rates:

Length of Control	Product per Acre	Product per 1,000 sq. ft.
Short Term Control (2 - 4 months)	2.1 Quarts	1.6 fl. oz.
Long Term Control (6 - 8 months)	4.2 Quarts	3.2 fl. oz.

* For extended weed control, repeat applications of **UP-End HydroCap** can be made.

HAND-HELD SPRAY EQUIPMENT:

Use the table above to determine the amount of **UP-End HydroCap** to be applied per 1,000 square feet. The amount of water used for the application is not critical but should be sufficient for thorough coverage without runoff. Calibration of backpack or other hand-held equipment will vary with each operator. Determine the amount of water needed to treat 1,000 square feet before mixing the spray solution. Follow information in **MIXING INSTRUCTIONS** section of this label.

TABLE 4. ORNAMENTAL SPECIES

UP-End HydroCap sprays may be used around and over the top of the established plants listed below. Refer to Ornamental Instructions and Restrictions before application. Refer to Table 3. Application Rates For Weed Control Production Ornamentals.

TREES

Common Name	Scientific Name
Alder, European Black	Alnus glutinosa
Apple	Malus spp.
Arborvitae, American	Thuja occidentalis
Arbutus	Arbutus spp.
Ash, Red	Fraxinus pennsylvanica
Ash, White	Fraxinus americana
Aspen, Bigtooth	Populus grandidentata
Aspen, Quaking	Populus tremuloides
Basswood	<i>Tilia</i> spp.
Birch, European Weeping	Betula pendula
Birch, River	Betula nigra
Buckeye, Red	Aesculus pavia
Cedar, White	Thuja occidentalis
Chamaecyparis, Boulevard	Chamaecyparis pisifera
Cherry, Black	Prunus serotina
Cherry, Choke	Prunus virginiana
Cherry, Kwanzan	Prunus serrulata
Cherry, Nanking	Prunus tomentosa
Cottonwood	Populus deltoides
Crabapple	Malus spp.
Crepe Myrtle	Lagerstroemia indica
Cryptomeria, Japanese Cedar	Cryptomeria japonica
Cypress, Bald	Taxodium distichum
Cypress, Leyland	Cupressocyparis leylandii
Dogwood, Flowering	Cornus florida
Dogwood, Korean	Cornus kousa
Dogwood, Silky	Cornus amomum
Dogwood, Shrub	Cornus spp.
Elm	Ulmus japonica
	Ulmus alata
Elm, Winged Eucolyptus (Silver deller) tree	Eucalyptus cinerea
Eucalyptus (Silver-dollar) tree Fir, Balsam	Abies balsamae
Fir, Douglas	Pseudotsuga menziesii
Fir, Fraser	Abies fraseri
Fir, White	Abies concolor
Franklinia Fringe tree	Franklinia spp.
Fringe tree	Chlonenthus retusus
Ginkgo Guna Black	Ginkgo biloba
Gum, Black	Nyssa sylvatica
Gum, Sour	Nyssa sylvatica
Haw, Black	Viburnum prunifolium
Hawthorn	<i>Crataegus</i> spp.
Hemlock, Canada	Tsuga canadensis
Hemlock, Eastern	Tsuga canadensis
Holly, American	llex opaca
Honeylocust	Gleditsia triacanthos
-	• • •
Lilac, Common	Syringa vulgaris
-	<i>Syringa vulgaris Syringa reticulata Tilia</i> spp.

TREES (continued)

Common Name	Scientific Name
Magnolia, Saucer	Magnolia soulangiana
Magnolia, Southern	Magnolia grandiflora
Magnolia, Star	Magnolia stellata
Maidenhair Tree	Ginkgo biloba
Maple, Norway	Acer platanoides
Maple, Japanese	Acer palmatum
Maple, Red	Acer rubrum
Maple, Sugar	Acer saccharum
Nannyberry, Rusty	Viburnum rufidulum
Oak, Chinquapin	Quercus muehlenbergii
Oak, Live	Quercus virginiana
Oak, Pin	Quercus palustris
Oak, Red	Quercus rubra
Oak, Swamp Chestnut	Quercus michauxii
Oak, Water	Quercus nigra
Oak, White	Quercus alba
Oak, Willow	Quercus phellos
Olive	Olea europaea
Palm, Date	Phoenix spp.
Palm, Fan	Washingtonia spp.
Palm, Pindo	<i>Butia</i> spp.
Palm, Washington	Washingtonia spp.
Peach	Prunus persica
Pear, Bradford	Pyrus calleryana
	'Bradford'
Pecan	Carya illinoensis
Pine, Austrian	Pinus nigra
Pine, Italian Stone	Pinus pinea
Pine, Loblolly	Pinus taeda
Pine, Monterey	Pinus radiata
Pine, Red	Pinus resinosa
Pine, Scotch	Pinus sylvestris
Pine, Virginia	Pinus virginiana
Pine, White	Pinus strobus
Plum, Purple Leaf	Prunus cerasifera
Poplar, Black	Populus nigra
Redcedar, Eastern	Juniperus virginiana
Redcedar, Western	Thuja plicata
Red Ironbark	<i>Eucalyptus sideroxylon</i> 'Rosea'
Redwood, Dawn	Metasequoia glyptostroboides
Sequoia, Giant	Sequoiadendron giganteum
Serviceberry	Amelanchier laevis
Sourwood	Oxydendrum arboreum
Spruce, Colorado Blue	Picea pungens
Spruce, Dwarf Alberta	Picea glauca
	'albertiana'
Spruce, Norway	Picea abies
Spruce, White	Picea glauca
Sweetgum	Liquidambar styraciflua
Sycamore	Platanus occidentalis
Trachycarpus	Trachycarpus spp.
Tulip tree	Liriodendron tulipifera
Walnut, Black	Juglans nigra
Willow, Weeping	Salix babylonica
Yellowwood	Cladrastis lutea

SHRUBS

Common Name Abelia, Glossy Alder, Witch Aucuba, Gold Azalea Bamboo, Heavenly Barberry Barberry, Japanese Blue Indigo Bush Bottlebrush, Lemon Boxwood, Common Boxwood, Japanese Brittlebush Buttonbush Camellia Cape Jasmine Cassia, Feathery Cordyline Correa Cotoneaster Cotoneaster, Bayberry Cotoneaster, Rock Cypress, Italian Cypress, Leyland Deutzia, Slender Dogwood, Red Twig Elaeagnus Escallonia Euonymus Euonymus, Golden Euonymus, Winged Firethorn Forsythia, Border Fragrant Olive Fuschia, California Gardenia Hawthorne, Indian Hibiscus Holly, Chinese Holly, Japanese Holly, Fosters

Holly, Savannah Holly, Yaupon Honeysuckle, Bush Hopseed Bush Hopbush Hydrangea Juniper Juniper, Chinese Juniper, Chinese Juniper, Trailing Laurel, Cherry Laurel, Mountain Laurel, Otto Luyken Laurel, Schipka

Scientific Name

Abelia grandiflora Fothergilla gardenii Aucuba japonica Rhododendron sp. Nandina domestica Berberis gladwynensis Berberis thunbergii Dalea gregii Callistemon citrinus Buxus sempervirens Buxus microphylla Encelia farinosa Cephalanthus occidentalis Camellia japonica Gardenia jasminoides Cassia artemisioides Cordyline spp. Correa spp. Cotoneaster apiculatus Cotoneaster dammeri Cotoneaster horizontalis Cupressus sempervirens Cupressocyparis leylandii Deutzia gracilis Cornus sericea Elaeagnus ebbingei Escallonia fradesii Euonymus fortunei Euonymus japonica Euonymus alata Pyracantha coccinea Forsythia intermedia Osmanthus fragrans Zauschineria californica Gardenia jasminoides Raphiolepis indica Hibiscus syriacus llex cornuta llex crenata llex attenuata 'Fosteri' llex attenuata llex vomitoria Diervilla Ionicera Dodonaea viscosa Dodonaea viscosa Hydrangea macrophylla Juniperus sp. Juniperus chinensis v. pfitzer Juniperus conferta Juniperus horizontalis Prunus laurocerasus Kalmia latifolia Prunus laurocerasus Prunus schipkanensis

SHRUBS (continued)

Common Name	Scientific Name
Laurustinus	Viburnum tinus
Lavender, English	Lavandula angustifolia
Leucothoe	Leucothoe fontanesiana
Leucothoe, Coast	Leucothoe axillaris
Lilac, Cut-leaf	
	Syringa laciniata
Lily-of-the-Nile Mahonia	Agapanthus africanus Mahonia aquifolium
Mock Orange	
0	Pittosporum tobira Myrtus communis
Myrtle, Compact	•
Myrtle, Wax Nandina	Myrica cerifera Nandina domestica
Oleander	Nerium oleander
Oregon Grape	
Osmanthus	Mahonia aquifolium
	Osmanthus fragrans
Palm, European Fan Palm, Maditarranaan Fan	Chamaerops humilis
Palm, Mediterranean Fan	Chamaerops spp. Leptodactylon californicum
Phlox, Prickly	Photinia x Fraseri
Photinia, Fraser	
Pieris, Japanese	Pieris japonica
Pine, Mugo	Pinus mugo
Plum, Natal	Carissa grandiflora
Privet, California	Ligustrum ovalifolium
Privet, Glossy	Ligustrum lucidum
Privet, Variegated	Ligustrum sinensis
Privet, Waxleaf Pyracantha	Ligustrum japonicum Puracantha coccinca
Quince, Flowering	Pyracantha coccinea
Ranger, Texas	Chaenomeles japonica Leucophyllum frutescens
Redroot	<i>Ceanothus</i> spp.
Rhododendron	Rhododendron spp.
Robira	Pittosporum tobira
Rose	Rosa spp.
Spice Plant	Illicium parviflorum
Spiraea	Spiraea vanhouttei
Spiraea, Anthony Waterer	Spiraea X bumalda
Spiraea, Japanese	Spiraea japonica
Sweet Bay	Laurus nobilis
Trumpet Bush	Tecoma stans
Verbena, Lemon	Aloysia triphylla
Viburnum	Viburnum suspensum
Vitex	Vitex spp.
Weigela	Weigela florida
Wild Lilac	<i>Ceanothus</i> spp.
Wisteria	Wisteria spp.
Xylosma	Xylosma congestum
Yellowbells	Tecoma stans
Yew*	Taxus media
Yew, Japanese*	Taxus cuspidata
Yew, Southern*	Podocarpus macrophyllus
Yucca, Adam's Needle	Yucca filamentosa
Yucca, Weeping	Yucca pendula

* Do not apply **UP-End HydroCap** during spring growth or injury to terminals may occur.

GROUND COVERS

Common Name Ajuga Baby Sun Rose Beach Strawberry Capeweed Cinquefoil, Spring Coyotebrush, Dwarf Daisy, Trailing African Dymondia Gazania Iceplant, Large Leaf Ivy, English Ivy, Geranium Jasmine, Asiatic Jasmine, Primrose Jessamine, Carolina Manzanita, Bearberry Miscanthus Mondograss Morning glory Myoporum Pachysandra Potentilla Red Apple Rosemary Rose-Of-Sharon Sand Strawberry Sedum St. Johnswort, Creeping Stonecrop Verbena, Peruvian Vervain Vetch. Crown Vinca Wintercreeper

PERENNIALS

Common Name Acacia Asparadus Aster, New York Aster. Stokes Astilibe (False Spirea) Avens Baby's Breath Baby's Breath Beard-Tongue Bellflower Bellflower, Willow Bird of Paradise Black-eved Susan[†] Blanket Flower[†] Blanket Flower[†] **Bleeding Heart Butterfly Weed**

Scientific Name

Ajuga reptans Aptenia cordifolia Fragaria chiloensis Arctotheca calendula Potentilla verna Baccharis pitularis Osteospermum fruticosum Dymondia margaretae Gazania splendens Carpobrotus edulis Hedera helix Pelargonium peltatum Trachelospermum asiaticum Jasminum mesnyi Gelsemium sempervirens Arctostaphylos uva-ursi Miscanthus spp. Ophiopogon japonica Convolvulus spp. Myoporum parviflolium Pachysandra terminalis Potentilla fruticosa Aptenia cordifolia Rosmarinus officinalis Hypericum calycinum Fragaria chiloensis Sedum spurium Hypericum calycinum Sedum spurium Verbena peruviana Verbena peruviana Vicia sativa Vinca minor Euonymous fortunei

Scientific Name

Acacia redolens Asparagus spp. Aster novi-belgii Stokesia laevis Astilibe spp. Geum triflorum Gypsophila elegans Gypsophila paniculata Penstemon spp. Campanula spp. Campanula persicifolia Caesalpinia pulcherrima Rudbeckia hirta Gaillardia aristata Gaillardia x grandiflora Dicentra spectabilis Asclepias tuberosa

PERENNIALS (continued)

Common Name	Scientific Name	
California Poppy	Eschscholzia california	
Calla Lily	Zantedeschia aethiopica	
Canna, Common Garden	<i>Canna generalis</i> 'Lucifer'	
Carex	<i>Carex</i> spp.	
Chincherinchee	Ornithogalum thyrsoides	
Clover, Crimson [†]	Trifolium incarnatum	
Columbine	<i>Aquilegia</i> 'McKana Giant'	
Columbine	Aquilegia x hybrida	
Coreopsis (tickseed) [†]	Coreopsis lanceolata	
Crinum Lily	<i>Crinum</i> spp.	
Crocus	<i>Crocus</i> spp.	
Daffodil	Narcissus spp.	
Daylily	Hemerocallis spp.	
Fairy Duster	Calliandra eriophylla	
-		
Fern, Asparagus Fern, Boston	Asparagus officinalis	
,	Nephrolepis exaltata	
Fern, Hay-scented	Dennstaedtia punctilobula	
Fern, Leatherleaf*	Rumohra adiantiformis	
Fortnight Lily	<i>Moraea</i> spp.	
Foxglove	Digitalis purpurea	
Freesia	Freesia x hybrida	
Gaillardia	Gaillardia pulchella	
Geum	Geum spp.	
Gladiolus	<i>Gladiolus</i> spp.	
Heather, Dwarf	Calluna vulgaris	
Hosta	Hosta spp.	
Indian Blanket [†]	Gaillardia pulchella	
Iris, Japanese	Iris kaemphera	
Lantana, Weeping	Lantana montevidensis	
Leopards Bane	Doronicum cordatum	
Lily	<i>Lillium</i> spp.	
Liriope, Big Blue	Liriope muscari	
Liriope, Creeping	Liriope spicata	
Liriope, Variegated	Liriope muscari	
Moonbeam	Coreopsis verticillata	
Montbretia	Crocosmia crocosmiiflora	
Mugwort, Western	Artemesia ludoviciana	
Nightshade	<i>Solanum</i> spp.	
Orchid, Peacock	Acidanthera bicolor	
Oxeye Daisy [†]	Chrysanthemum leucanthemum	
Palm, Areca	Chysalidocarpus lutescens	
Palm, Pygmy Date	Phoenix roebelence	
Palm, Washington	Washington robusta	
Peony, Chinese	Paeonia lactiflora	
Purple Coneflower [†]	Echinacea purpurea	
Purple Gay-feather	Liatris pycnostachys	
Purple Loosestrife	Lythrum virgatum	
Rodgersia	Rodgersia henricie	
Rosemary	Rosmarinus officinalis	
Sedge	Carex spp.	
Shasta Daisy [†]	Chrysanthemum x superbum	
Statice	Limonium latifolia	
Statice, German	Goniolimon tartaricum	
	demonitori tartariouri	

PERENNIALS (continued)

Common Name	Scientific Name
Sweet Flag	Acorus calamus
Tickseed [†]	Coreopsis lanceolata
Texas Bluebonnet	Lupinus texenis
Tulip	<i>Tulipa</i> spp.
Wonder Flower	Ornithogalum thyrsoides
Yarrow [†]	Achillea millefolium
Zephyr Lily	Zephyranthes spp.
** ** **	

* Applications of **UP-End HydroCap** to immature ferns (during periods of new growth of fronds) may result in some injury.

[†] These plants have shown tolerance to **UP-End HydroCap** applications of 4.2 pints (2.1 quarts) in wildflower plantings established from seed.

ORNAMENTAL GRASSES

Common Name	Scientific Name
Beach Grass	Ammophila breviligulata
Fescue, Blue	Festuca glauca
Fescue, Sheep	Festuca ovina
Fountain Grass	Pennisetum setaceum
Pampas Grass	Cortaderia selloana
Reed Canary Grass	Phalaris arundinacea
Reed, Giant	Arundo spp.
Ribbon Grass	Phalaris arundinacea
Tufted Hair Grass	Deschampsia caespitosa

BEDDING PLANTS

Common Name	Scientific Name
Ageratum	Ageratum houstonianum
Alyssum*	Alyssum saxatile
Anemone, Poppy-flowered	Anemone coronaria
Artemesia	Artemesia spp.
Balloonflower	Platycodon grandiflorum
Begonia*	<i>Begonia</i> spp.
Cabbage, Ornamental	Brassica oleracea
Caladium	<i>Caladium</i> spp.
Cast-Iron Plant	Aspidistra elatior
China Aster*	Callistephus chinensis
Crocosmia, Montbretia	Crocosmia x crocosmiiflora
Dahlia*	<i>Dahlia</i> spp.
Dianthus	Dianthus barbatus
Dusty Miller	Senecio cineraria
Gayfeather	<i>Liatris</i> spp.
Gazania, Treasure Flower	Gazania rigens
Gazania, Trailing	Gazania rigens leucolaena
Gloxinia	Gloxinia simningia
Kale, Ornamental	Brassica napus
Marigold, African	Tagetes erecta
Moss Rose*	Portulaca grandiflora
Mum, Garden	Chrysanthemum spp.
Periwinkle*	Vinca major
Periwinkle, Rose	Catharanthus roseus
Petunia*	<i>Petunia</i> spp.
Plumosa Cockscomb	Celosia cristata
Portulaca*	Portulaca grandiflora
Salvia*	Salvia splendens
Snapdragon	Antirrhinum majus
Statice*	<i>Limonium</i> spp.
Sweet William	Dianthus barbatus
Vinca*	Vinca major

* Do not apply **UP-End HydroCap** sooner than four weeks after transplanting for these annuals. Use the lower labeled rate.

UP-End HydroCap may be used on plant species not listed on this label. Determine the suitability for such uses by treating a small number of such plants at the specified rate. Evaluate treated plants 1 - 2 months following treatment for possible injury.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. **PESTICIDE STORAGE:** DO NOT STORE BELOW 15° F. Extended storage at temperatures below 15° F can result in the formation of crystals on the bottom of container. If crystallization does occur, store the container on its side at room temperature (70° F) and rock occasionally until crystals dissolve.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying. Triple rinse after emptying, then offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

Containers less than or equal to 5 gallons: triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a rinse tank, or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Containers larger than 5 gallons: triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on it end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Repeat this procedure two more times.

IMPORTANT INFORMATION READ BEFORE USING PRODUCT

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

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