

{Outer Bag Label}

GROUP	2	HERBICIDE
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18-MAR-2008
2006-4730

VELOCITY[®] SP HERBICIDE

COMMERCIAL

SELECTIVE POSTEMERGENCE HERBICIDE FOR THE REDUCTION OF ANNUAL BLUEGRASS IN TURF (CREEPING BENTGRASS, PERENNIAL RYEGRASS, KENTUCKY BLUEGRASS, AND TALL FESCUE) ON GOLF COURSES AND SOD FARMS ONLY

GUARANTEE: Bispyribac (present as sodium salt)..... 76.1%

**KEEP OUT OF REACH OF CHILDREN
READ THE ENTIRE LABEL BEFORE USING
POTENTIAL DERMAL SENSITIZER**

REGISTRATION NO.: 28833
PEST CONTROL PRODUCTS ACT

**Net Contents: 226.8 grams (4 x 56.7 g packets)
DO NOT SELL WATER SOLUBLE PACKETS SEPARATELY
Do NOT use a knife or other sharp object to open this outer bag.
This outer bag is not water soluble. Do NOT put in spray tank.**

Store in a cool, dry, secure place. Do not remove water soluble packet from outer bag except for immediate use. Do not allow to become wet in storage. Keep outer bag sealed when not in use.

Valent U.S.A. Corporation
1600 Riviera Avenue, Suite 200
P.O. Box 8025
Walnut Creek, CA USA
94596-8025
800-6-VALENT

Engage Agro Corporation
1030 Gordon St.
Guelph, ON, Canada, N1G 4X5
1-866-613-3336

{Water Soluble Packet Label}

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FIRST AID:

If on SKIN or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

If in EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

If SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

If INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION:

There is no specific antidote for this product. Apply symptomatic therapy.

***IN CASE OF EMERGENCY INVOLVING A POISONING OR MAJOR SPILL,
CALL 1-866-336-2983***

PRECAUTIONS:**KEEP OUT OF REACH OF CHILDREN****USER SAFETY RECOMMENDATIONS**

Applicators and other handlers must wear long-sleeved shirt and long pants, chemical-resistant gloves made of any waterproof material (such as butyl or nitrile), shoes plus socks. Do not eat, drink or smoke during work. Wash hands and face thoroughly before eating, drinking, smoking, chewing gum, or using the toilet. Immediately wash off accidental splashes of the concentrate or spray mixture from skin, clothing and out of eyes. Remove clothing immediately if pesticide gets inside. Wash thoroughly and put on clean clothing. After work, change clothing and wash entire body thoroughly. Wash contaminated working clothes separately from other laundry before reuse. Follow manufacturer's instructions for cleaning/maintaining Person Protection Equipment (PPE). If there are no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. Keep all unprotected persons out of operating areas, or vicinity where there may be drift. Do not enter treated areas until sprays have dried.

ENVIRONMENTAL HAZARDS

TOXIC to aquatic organisms and non-target terrestrial plants. Observe buffer zones specified under DIRECTIONS FOR USE. DO NOT apply this product directly to freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs, and wetlands), estuaries or marine habitats. DO NOT

contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes. To reduce runoff from treated areas into aquatic habitats avoid application to areas with a moderate to steep slope, compacted soil, or clay.

Avoid application when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body. The use of this chemical may result in contamination of groundwater particularly in areas where soils are permeable (e.g., sandy soil) and/or the depth to the water table is shallow.

GENERAL RESTRICTIONS AND LIMITATIONS

- Do not apply through any type of irrigation system.
- **DO NOT APPLY BY AIR.**
- Do not apply to golf greens.
- Do not apply if rain is expected within 12 hours after application.
- Do not mow or irrigate turf within 12 hours after application.
- Do not apply to moist or wet turf.
- Do not mix with other pesticides, fertilizers, wetting agents, spreader stickers, surfactants or other adjuvants.
- Do not apply with flood jet nozzles or hand sprayers.

MIXING AND SPRAYER CLEAN-UP INSTRUCTIONS:

WATER SOLUBLE PACKAGING INFORMATION

The bag contains multiple water soluble packets of VELOCITY SP HERBICIDE. Do not handle the packets with wet gloves or allow the packets to become wet prior to addition to spray tank. Do not break open packets. Open outer bag by pulling perforated tearstrip and place intact water soluble packet(s) in the spray tank. If all packets are not used, close and reseal outer container to protect remaining packet(s).

Water soluble packets should completely dissolve in the spray tank within approximately five minutes. Dissolution rate may be slowed by cold water, lack of agitation or water containing high concentrations of boron or sulfur. High concentrations of boron or sulfur may result in spray screen or nozzle clogging due to the incomplete dissolution of the water soluble packet material.

If broken water soluble packets are found when the outer bag is opened, avoid contact with, and inhalation of the product. Wear chemical resistant gloves and dust mask, and dispose of broken water soluble packet according to the DISPOSAL section.

MIXING

1. Fill clean spray tank 1/3 to 1/2 of desired level with clean water.
2. While agitating, add VELOCITY SP HERBICIDE water soluble packets and ensure they have dissolved completely before proceeding. Agitation should create a rippling or rolling action on the water surface.
3. Fill spray tank to desired level with water. Agitation should continue until spray solution has been applied.

4. Mix only the amount of spray solution that can be applied the day of mixing.
5. Apply VELOCITY SP HERBICIDE within 6 hours after mixing with water in spray tank.

SPRAYER CLEAN-UP

Trace amounts of VELOCITY SP HERBICIDE in or on mixing or spraying equipment may have an adverse effect on subsequently sprayed plants. Therefore, it is important that the sprayer be properly cleaned after spraying VELOCITY SP HERBICIDE. Thoroughly drain, clean and rinse all mixing and spraying equipment including tanks, booms, hoses, strainers, screens and nozzles immediately after use. Use the following procedure:

1. Remove all physical residues.
2. Thoroughly drain and rinse tanks, booms and hoses with clean water.
3. Fill the tank one half full with clean water and use a spraying or mixing tank cleaner that does not contain chlorine. Fill the remainder of the tank with clean water. Let agitate or recirculate according to the directions of the cleaner manufacturer. Thoroughly flush the boom and hoses before draining.
4. Rinse all hoses, tanks, nozzles, strainers and booms with clean water to remove the tank cleaner. Follow the directions provided by the tank cleaner manufacturer.
5. Fill the tank half full with clean water and add 1 L of 3% active household ammonia for every 100 L of water the tank will hold. Fill the remainder of the tank with clean water and allow the solution to agitate or recirculate for 15 minutes. Thoroughly flush the ammonia cleaning solution through the boom, hoses, nozzles, screens and strainers before draining the tank.
6. Remove the strainers, nozzles and screens and clean separately in a solution of household ammonia and water.
7. Replace the strainers, nozzles and screens.
8. Repeat Step 5.
9. Thoroughly rinse the tank with clean water and flush the water through the boom, nozzles and hoses in order to remove all traces of ammonia.
10. Dispose of the rinsate on-site or at an approved waste disposal facility.

IMPORTANT: Do not use chlorine bleach with ammonia or toxic chlorine gas may be released. Remove all traces of liquid fertilizer containing any form of ammonia or ammonium before adding any chlorine source such as chlorine bleach.

RESISTANCE MANAGEMENT:

For resistance management VELOCITY SP HERBICIDE contains a Group 2 herbicide. Any weed population may contain or develop plants naturally resistant to VELOCITY SP HERBICIDE and other Group 2 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. Other resistance mechanisms that are not linked to site of action, but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed. To delay herbicide resistance:

- Where possible, rotate the use of VELOCITY SP HERBICIDE or other Group 2 herbicides with different herbicide groups that control the same weeds in the field.
- Use tank mixtures with herbicides from a different group when such use is permitted.

- Herbicide use should be based on an IPM program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical), cultural, biological and other chemical control practices.
- Monitor treated weed populations for resistance development.
- Prevent movement of resistant weed seeds to other fields by cleaning equipment and planting clean seed.
- Contact your local extension specialist or certified crop advisor for any additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes.
- For further information and to report suspected resistance, contact Engage Agro Corporation at 1-866-613-3336 or at www.engageagro.com.

DISPOSAL:

1. When all the water soluble packets are used, make the empty outer bag unsuitable for further use.
2. Dispose of the outer bag in accordance with provincial requirements.
3. For information on the disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

STORAGE:

Do not contaminate water, food or feed by storage. Keep pesticide in original container. Store in a cool, dry, secure place. Do not put formulation or dilute spray solution into food or drink containers. Do not store or transport near feed or food. Not for use or storage in or around the home. Do not remove water soluble packet from outer bag except for immediate use. Do not allow to become wet in storage. Keep outer bag sealed when not in use.

NOTE TO BUYER/USER - READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR SPECIAL USE APPLICATIONS:

The **DIRECTIONS FOR USE** for this product for the use described on this label were developed by persons other than Valent U.S.A. Corporation and accepted for registration by Health Canada under the User Requested Minor Use Registration program. Valent U.S.A. Corporation itself makes no representation or warranty with respect to performance (efficacy) and/or crop tolerance (phytotoxicity) claims for this product when used in accordance with this label. Accordingly, the user assumes risk of damage or loss resulting from such use and agrees to hold Valent Professional Products harmless from any claims based on efficacy and/or phytotoxicity in connection with the use described on this label.

GENERAL INFORMATION

VELOCITY SP HERBICIDE is a postemergence herbicide that, when used in accordance with the label, will selectively reduce the presence of annual bluegrass (*Poa annua*) within certain species of established turf, specifically creeping bentgrass (*Agrostis stolonifera*), perennial ryegrass (*Lolium perenne*), Kentucky bluegrass (*Poa*

pratensis), and tall fescue (*Festuca arundinacea*). VELOCITY SP HERBICIDE will also suppress seedhead production by annual bluegrass. VELOCITY SP HERBICIDE will not have any effect on annual bluegrass that germinates after application as it has almost no preemergent activity.

VELOCITY SP HERBICIDE inhibits the enzyme acetolactate synthase (ALS), which plants require to produce three key amino acids. Annual bluegrass usually stops growing within 3 to 7 days after treatment, and turns yellow or brown within 3 to 14 days after treatment. Plant death typically occurs by 21 to 28 days after treatment. More than one application of VELOCITY SP HERBICIDE is usually required for maximum control.

VELOCITY SP HERBICIDE is absorbed by plant foliage. Plant uptake and performance of VELOCITY SP HERBICIDE is influenced by environmental conditions, cultural practices and spray coverage. For best results, only apply VELOCITY SP HERBICIDE when turf and annual bluegrass are actively growing. Apply to turf that is well established and mowed at the prescribed height. Do not apply to greens because VELOCITY SP HERBICIDE may cause unacceptable injury to turf mowed at greens height.

VELOCITY SP HERBICIDE should not be applied in heavy traffic and/or heavily shaded turf areas, which are more prone to herbicide injury. VELOCITY SP HERBICIDE may be less effective on weeds or injurious to turf if applied when weeds or turf are under stress due to extremes in temperature, chemicals, drought, excessive water, pests, diseases, low fertility, heavy thatch, mechanical injury or other stresses. Do not apply VELOCITY SP HERBICIDE to turf that is exhibiting symptoms of heat stress, or if significant heat stress (temperatures above 32°C) is expected during the week following application. VELOCITY SP HERBICIDE may increase the susceptibility of creeping bentgrass to Pythium blight when it is applied under conditions favorable to infection by this pathogen (i.e., prolonged high heat stress, poor air circulation and wet soil). Therefore, avoid application of VELOCITY SP HERBICIDE to creeping bentgrass that is exhibiting symptoms of Pythium infection, or under conditions that are favourable to infection.

VELOCITY SP HERBICIDE may be less efficacious if applied in the spring before turf resumes active growth, or in the fall after growth slows. Application during these times may result in a more extended period of chlorosis to turf. In general, VELOCITY SP HERBICIDE will perform optimally (i.e. least chlorosis to turf) under sunny conditions when daytime high temperatures are between 21°C and 27°C during and after application.

Contact your VELOCITY SP HERBICIDE representative for a recommendation specific to your area.

VELOCITY SP HERBICIDE has not been evaluated under all microclimates or against all biotypes of annual bluegrass. Therefore, performance may be less effective in some locations, and against some biotypes of annual bluegrass.

Thorough spray coverage is also required to maximize performance. Irrigation is not required to activate VELOCITY SP HERBICIDE. Turf should not be mowed or irrigated for at least 12 hours after application in order to allow time for VELOCITY SP

HERBICIDE to be absorbed and translocated within foliage. Do not apply if rain is expected within 12 hours of application.

TOLERANT TURF SPECIES

VELOCITY SP HERBICIDE has not been evaluated on all varieties of creeping bentgrass, perennial ryegrass, Kentucky bluegrass, or tall fescue. When applied in accordance with the label, it has not been known to cause commercially unacceptable injury to creeping bentgrass and perennial ryegrass under good growing conditions. However, the tolerance of Kentucky bluegrass, which is closely related to annual bluegrass, is known to vary by variety. Varieties of any one turf species on a golf course may not always be known, and varieties may vary from one area of a golf course to another. Therefore, VELOCITY SP HERBICIDE should be tested in a number of small areas around the golf course, or one area for each sod planting, to determine if the herbicide can be used without causing unacceptable injury to the turf. In particular, VELOCITY SP HERBICIDE should be used with caution when Kentucky bluegrass comprises a significant portion of a mixed stand of turf. Contact your VELOCITY SP HERBICIDE representative for more information about which turf varieties of Kentucky bluegrass are tolerant to VELOCITY SP HERBICIDE.

Treated turf may exhibit temporary chlorosis (yellowing) and mild growth regulation. These symptoms generally appear 3 to 10 days after application, but tolerant turf species usually outgrow symptoms within 1 to 3 weeks. The onset, intensity and persistence of symptoms are at least partially influenced by environmental conditions (i.e., temperature, cloud cover and rainfall) and cultural practices. Under cool and cloudy conditions, symptoms tend to appear more slowly than under warm sunny conditions, but symptoms may also be more persistent under cool cloudy conditions because turf is growing less vigorously.

IMPORTANT: VELOCITY SP HERBICIDE is a very active herbicide, and users should exercise good judgment and caution until familiarity is gained with this product. Due to variability of turf varieties, growth stages, environmental conditions, cultural practices and application techniques, users should test this product under user growing conditions in a small area, and evaluate treated turf for 28 days for phytotoxicity. Testing VELOCITY SP HERBICIDE in a small area will help determine if the herbicide can be used safely in a widespread application.

Annual bluegrass chlorosis can be mistaken for turf chlorosis, especially in sites with a moderate to heavy infestation. Turf chlorosis is usually more apparent when small patches of turf within a fairway or tee box are treated with VELOCITY SP HERBICIDE, and less apparent when entire fairways or tee boxes are treated. Therefore, if temporary turf chlorosis is a concern, avoid treating small patches of turf that are surrounded by nontreated areas of turf.

OVERSEEDING

VELOCITY SP HERBICIDE may considerably reduce overall turf cover in areas of heavy annual bluegrass infestation. In turf with >10% annual bluegrass, overseeding is recommended in combination with the VELOCITY SP HERBICIDE program to promote conversion to desirable turf species and to avoid stand thinning due to loss of annual bluegrass. Do not apply VELOCITY SP HERBICIDE between 10 days before and at

least 60 days after overseeding with perennial ryegrass, Kentucky bluegrass, or tall fescue. Do not apply VELOCITY SP HERBICIDE between 10 days before and at least 30 days after overseeding with creeping bentgrass. For creeping bentgrass, no more than one application of 93 g/ha or two applications of 31 g/ha at least one week apart may be made between 30 days and 60 days after overseeding.

RESEEDING, SPRIGGING OR SODDING

VELOCITY SP HERBICIDE may be applied to sodded or sprigged turf or to newly sown (reseeded) turf. Turf must have a well developed root system and uniform stand and have received at least two mowings before the first application of VELOCITY SP HERBICIDE.

Following a single application of VELOCITY SP HERBICIDE, wait 10 days before reseeding or sprigging. When reseeding or sprigging, always use proper cultural practices, such as soil cultivation, irrigation and fertilization to ensure rapid turf establishment. For best results, use mechanical or power seeding equipment (slit seeders) designed to give good seed-to-soil contact.

APPLYING VELOCITY SP HERBICIDE

Apply VELOCITY SP HERBICIDE by ground using standard, low pressure (138-345 kPa; 20-50 psi) spray equipment and a uniform spray pattern. Calibrate spray equipment before each use and check periodically during application. To ensure thorough coverage, apply a minimum of 234 L of spray solution per hectare. Avoid streaking, skips or excessive overlaps during application. Do not apply with flood jet nozzles or hand held sprayers as equipment may not provide adequate or uniform coverage. The addition of a spray indicator, such as dyes or foams, is recommended.

DIRECTIONS FOR USE IN TURF

CROP AND USE SITE INFORMATION

CROP	USE SITE
Creeping bentgrass (<i>Agrostis stolonifera</i>)	Golf course fairways and tees mowed at 0.9 to 1.9 cm height.
Perennial ryegrass (<i>Lolium perenne</i>)	Sod farms mowed at 1.3 to 1.9 cm height.
Kentucky bluegrass ¹ (<i>Poa pratensis</i>) and Tall Fescue (<i>Festuca arundinacea</i>)	Sod farms and golf courses

RECOMMENDED PROGRAMS FOR ANNUAL BLUEGRASS REDUCTION

The program for VELOCITY SP HERBICIDE should be determined by the severity of annual bluegrass infestation and/or the turf species present. The degree of annual bluegrass control normally increases with increasing numbers of VELOCITY SP HERBICIDE applications made in accordance with the selected program.

- Do not begin applications prior to June 1st or extend applications after September 15th.

¹ Kentucky bluegrass varieties vary in phytotoxic response to Velocity SP Herbicide. See section “Tolerant Turf Species” for more information.

<ul style="list-style-type: none"> • Do not retreat with VELOCITY SP HERBICIDE if turf is exhibiting undesirable chlorosis. • Do not treat turf unless daily high air temperatures reach 21°C. • Do not apply more than a total of 185 g per hectare in a 28 day period. • Do not apply more than a total of 370.8 g per hectare per season. • Do not apply more than 140 g per hectare per application. 		
CONTROL PROGRAM	RATE (g/ha)	REMARKS
Creeping Bentgrass and Perennial Ryegrass Program 1	31	Apply on a 7-day interval. Continue until the desired level of control of annual bluegrass is achieved. This program should be considered for turf where complete removal of annual bluegrass during a single season could result in an unacceptable stand of turf.
Creeping Bentgrass and Perennial Ryegrass Program 2	93	Apply up to four times on a 14-day interval. This program should be considered for turf with light infestations of annual bluegrass, where removal of these weeds would NOT result in an unacceptable stand of turf.
Kentucky Bluegrass and Tall Fescue Program	31	Apply on a 7- to 14-day interval. Begin applications early in the recommended use season, and continue until the desired level of annual bluegrass control is achieved. A shorter mowing height will increase the tolerance of the Kentucky bluegrass and fescue to VELOCITY SP HERBICIDE.

Field sprayer application: **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) medium classification. Boom height must be 60 cm or less above the crop or ground.

DO NOT apply by air.

Buffer zones: The buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas and shrublands) and sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands).

Method of application	Buffer Zones (metres) Required for the Protection of:		
	Freshwater Habitat of Depths:		Terrestrial Habitat
	Less than 1 m	Greater than 1 m	
Field sprayer*	1	1	5

*For field sprayer application, buffer zones can be reduced with the use of drift reducing spray shields. When using a spray boom fitted with a full shield (shroud, curtain) that extends to the crop canopy, the labelled buffer zone can be reduced by 70%. When using a

spray boom where individual nozzles are fitted with cone-shaped shields that are no more than 30 cm above the crop canopy, the labelled buffer zone can be reduced by 30%.

NOTICE TO USER: This pest control product is to be used only in accordance with the directions on the label. It is an offence under the PEST CONTROL PRODUCTS ACT to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

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