

GROUP

2

HERBICIDE



Active Ingredient	By Wt.
*Bispyribac-sodium.....	80.0%
Other Ingredients.....	20.0%
Total.....	100.0%
*Sodium 2,6-bis[(4,6-dimethoxypyrimidin-2-yl)oxy] benzoate	

EPA Reg. No. 59639-105 EPA Est. 065387-AR-001

KEEP OUT OF REACH OF CHILDREN CAUTION

SEE BELOW FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS CAUTION

Causes moderate eye irritation. Harmful if swallowed or absorbed through skin. Avoid contact with eyes, skin or clothing. Avoid breathing dust or spray mist.

FIRST AID

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

FIRST AID (continued)

HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact **1-800-892-0099** for emergency medical treatment information.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow instructions for 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 such as barrier laminate or butyl rubber ≥ 14 mils or nitrile rubber ≥ 14 mils or viton ≥ 14 mils, shoes plus socks. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

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 non-target plants. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters.

DIRECTIONS FOR USE

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

READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

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 restricted-entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: coveralls, chemical-resistant gloves, such as barrier laminate or butyl rubber ≥ 14 mils or nitrile rubber ≥ 14 mils and shoes plus socks.

DISCLAIMER, RISKS OF USING THIS PRODUCT, LIMITED WARRANTY AND LIMITATION OF LIABILITY

IMPORTANT: Read the entire Label including this Disclaimer, Risks of Using this Product, Limited Warranty, and Limitation of Liability before using this product. If the terms are not acceptable THEN DO NOT USE THE PRODUCT; rather, return the unopened product within 15 days of purchase for a refund of the purchase price.

RISKS OF USING THIS PRODUCT

The Buyer and User (referred to collectively herein as "Buyer") of this product should be aware that there are inherent unintended risks associated with the use of this product which are impossible to eliminate. These risks include, but are not limited to, injury to plants and crops to which this product is applied, lack of control of the target pests or weeds, resistance of the target pest or weeds to this product, injury caused by drift, and injury to rotational crops caused by carryover in the soil. Such risks of crop injury, non-performance, resistance or other unintended consequences are unavoidable and may result because of such factors as weather, soil conditions, disease, moisture conditions, irrigation practices, condition of the crop at the time of application, presence of other materials either applied in the tank mix with this product or prior to application of this product, cultural practices or the manner of use or application, (or a combination of such factors) all of which are factors beyond the control of Valent. The Buyer should be aware that these inherent (continued)

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unintended risks may reduce the harvested yield of the crop in all or a portion of the treated acreage, or otherwise affect the crop such that additional care, treatment and expense are required to take the crop to harvest. If the Buyer chooses not to accept these risks, THEN THIS PRODUCT SHOULD NOT BE APPLIED. By applying this product Buyer acknowledges and accepts these inherent unintended risks AND TO THE FULLEST EXTENT ALLOWED BY LAW, AGREES THAT ALL SUCH RISKS ASSOCIATED WITH THE APPLICATION AND USE ARE ASSUMED BY THE BUYER.

Valent shall not be responsible for losses or damages (including, but not limited to, loss of yield, increased expenses of farming the crop or such incidental, consequential or special damages that may be claimed) resulting from use of this product in any manner not set forth on the label. Buyer assumes all risks associated with the use of this product in any manner or under conditions not specifically directed or approved on the label.

LIMITED WARRANTY

Valent warrants only that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the label, under average use conditions, when used strictly in accordance with the label **and subject to the Risks of Using This Product as described above.**

To the extent consistent with applicable law AND AS SET FORTH ABOVE, VALENT MAKES NO OTHER WARRANTIES, EITHER EXPRESSED OR IMPLIED. No agent or representative of Valent or Seller is authorized to make or create any other express or implied warranty.

LIMITATION OF LIABILITY

To the fullest extent allowed by law, Valent or Seller is not liable for any incidental, consequential, indirect or special damages resulting from the use or handling of this product. The limitation includes, but is not limited to, loss of yield on all or any portion of the treated acreage, increased care, treatment or other expenses required to take the crop to harvest, increased finance charges or altered finance ratings, emotional or mental distress and/or exemplary damages. TO THE FULLEST EXTENT ALLOWED BY LAW, THE EXCLUSIVE REMEDY OF THE BUYER, AND THE EXCLUSIVE MAXIMUM LIABILITY OF VALENT OR SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT SHALL BE THE RETURN OF THE PURCHASE PRICE OF THIS PRODUCT OR, AT THE ELECTION OF VALENT OR SELLER, THE REPLACEMENT OF THE PRODUCT.

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PROMPT NOTICE OF CLAIM

To the extent consistent with applicable law allowing such requirements, Valent must be provided prompt notice as soon as Buyer has reason to believe it may have a claim, but in no event later than twenty-one days from date of planting, or twenty-one days from the date of application, whichever is latter, so that an immediate inspection of the affected property and growing crops can be made. To the extent consistent with applicable law, if Buyer does not notify Valent of any claims, in such period, it shall be barred from obtaining any remedy.

NO AMENDMENTS

Valent and Seller offer this product, and Buyer accepts it, subject to the foregoing **Disclaimer, Risks of Using This Product, Limited Warranty and Limitation of Liability**, which may not be modified by any oral or written agreement.

TANK MIXES

NOTICE: Tank mixing of this product with any other product which is not specifically and expressly authorized by the label shall be the exclusive risk of user, applicator and/or application advisor, to the extent allowed by applicable law.

Read and follow the entire label of each product to be used in the tank mix with this product.

PRODUCT INFORMATION

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

Regiment® Herbicide is a selective, postemergence contact herbicide which provides control of many weeds infesting rice. It has an exceptionally wide window of application and should be used as an integral part of a weed control program in conjunction with a resistance management strategy*. The mode of action is the inhibition of the acetolactate synthase (ALS) enzyme, and thus, activity is relatively slow, 14 to 21 days for complete control. Susceptible weeds

turn yellow and stop growing 3 to 7 days after treatment. Browning of sensitive weeds is evident in 7 to 14 days after treatment with death of the stem and roots occurring within 14 to 21 days after treatment. *Regiment* Herbicide is not a residual/soil active herbicide and will not prevent reinfestation of weeds which germinate after application. Thorough application spray coverage of weed foliage is needed for acceptable control. *Regiment* Herbicide is rainfast 8 hours after application. Temporary injury to rice may occur after application, but injury is transient and yields are not adversely affected. Fertilizer top-dressing will speed temporary injury recovery.

APPLICATION PROGRAMS

Regiment Herbicide alone or in combination with other herbicides (refer to "Tank Mix Application" section) may be applied as a single application at rates, timings and for control of weed species stated in the table when used as part of a weed control program. *Regiment* Herbicide may also be used in one of the following split application programs:

1. **Early postemergence application of *Regiment* Herbicide in combination with a preemergence herbicide, followed by a *Regiment* Herbicide application either just prior to permanent flood or early post flood.** Apply *Regiment* Herbicide at 0.2 oz per acre plus the label rate of either Bolero® 8 EC, Command® 3 ME, Facet® or Prowl® 3.3 EC when rice is in at least the 2-leaf stage (2nd leaf fully expanded) followed by an application of *Regiment* Herbicide at 0.53 to 0.67 oz per acre alone (refer to the table) or in combination with other herbicides (refer to "Tank Mix Application" section).
2. **Mid postemergence application of *Regiment* Herbicide followed by a *Regiment* Herbicide application either just prior to permanent flood or early post flood.** Apply *Regiment* Herbicide at 0.5 oz per acre when barnyardgrass is in the 3 to 5-leaf stage followed by an application of *Regiment* Herbicide at 0.5 oz per acre alone (refer to the table) or in combination with other herbicides (refer to "Tank Mix Application" section).

*See resistance management statement on this label.

Table 1

PRODUCT USE RATES/WEEDS FOR USE IN RICE GROWING REGIONS (EXCEPT CALIFORNIA)

WEEDS CONTROLLED	SCIENTIFIC NAMES	WEED SIZE	RATE OUNCES/ACRE
Barnyardgrass/Junglerice (including propanil and/or Facet® resistant barnyard- grass)	<i>Echinochloa crus-galli</i> / <i>Echinochloa colonum</i>	2 leaf up to 5 leaf 5 leaf through 1 tiller Up to 3 tillers	0.4 0.53 0.57
Late Application Barnyardgrass/Junglerice Suppression	<i>Echinochloa crus-galli</i> / <i>Echinochloa colonum</i>	3 tillers to early booting	0.67
Baronet grass (bayonet grass) – POST FLOOD ONLY	<i>Echinochloa pungens</i>	1 to 3 tillers	0.57 – 0.67
Annual Rice Flatsedge	<i>Cyperus iria</i>	1 leaf up to 4 leaf	0.4 - 0.57
Dayflower	<i>Commelina communis</i>	1 leaf up to 4 leaf	0.4 - 0.57
Ducksalad	<i>Heteranthera</i> spp.	1 leaf up to “spoon leaf”	0.4 - 0.57
Gooseweed	<i>Sphenoclea zeylanica</i>	1 leaf up to 4 leaf	0.4 - 0.57
Hemp Sesbania	<i>Sesbania exaltata</i>	3 to 18 inches	0.4 - 0.57
Johnsongrass	<i>Sorghum halepense</i>	3 to 24 inches	0.4 - 0.57
Jointvetch Indian Northern	<i>Aeschynomene indica</i> <i>Aeschynomene virginica</i>	3 to 18 inches 3 to 18 inches	0.4 - 0.57 0.4 - 0.57
Smartweed, Pennsylvania	<i>Polygonum pensylvanicum</i>	1 to 4 inches	0.4 - 0.57
Waterhyssop	<i>Bacopa rotundifolia</i>	1 leaf up to 4 leaf	0.4 - 0.57
Barnyardgrass, perennial	<i>Echinochloa polystachya</i>	Up to 2 tillers	0.53 - 0.57
Alligatorweed	<i>Alternanthera philoxeroides</i>	Up to 10 inch runners	0.53 - 0.57
Eclipta	<i>Eclipta</i> spp.	1 leaf up to 4 leaf	0.4 - 0.57
Knotgrass - POST FLOOD ONLY	<i>Paspalum ditichum</i>	Up to heading	0.53 - 0.57
Morningglory Entireleaf Pitted	<i>Ipomoea hederacea</i> <i>Ipomoea lacunosa</i>	1 to 4 inches 1 to 4 inches	0.4 - 0.57 0.4 - 0.57
Pigweeds	<i>Amaranthus</i> spp.	1 to 12 inches	0.4 - 0.57
Redstem	<i>Ammannia</i> spp.	1 to 4 inches	0.4 - 0.57
Smartweed, Pennsylvania	<i>Polygonum pensylvanicum</i>	4 to 24 inches	0.4 - 0.57
Texas/Mexicanweed	<i>Caperonia</i> spp.	1 leaf up to 4 leaf	0.4 - 0.57

Adjuvant: Application of *Regiment* Herbicide must include a surfactant unless otherwise specified in another section of this label or in supplemental labeling. Refer to the Valent bulletin “Approved Surfactants for use with *Regiment* Herbicide” for a list of approved surfactants and rates. Use of surfactants other than the ones specified is done at the sole risk of the user. Under some adverse conditions the addition of UAN to the approved surfactants may improve control or suppression of listed weeds. Refer to Valent product bulletin “Approved Surfactants For Use With *Regiment* Herbicide” for additional information.

**DRY-SEEDED OR WATER-SEEDED RICE -
U.S. RICE GROWING REGIONS (Except California)**

- Except where noted, *Regiment* Herbicide may be applied to rice after the 3-leaf (3rd leaf fully expanded) stage of development until the panicle initiation (green ring/just prior to joint movement) stage of development. Do not apply to rice before the 3rd leaf is fully expanded, except in the early postemergence split application technique where it can be applied at a reduced rate to rice in the 2-leaf stage of development (2nd leaf fully expanded), or after panicle initiation. Regardless of seeding method, rice must have the 3rd leaf fully expanded, except where noted and the root system must be completely below the soil surface prior to *Regiment* Herbicide application. Medium grain varieties may be more sensitive to *Regiment* Herbicide than long grain varieties. Pubescent (hairy) leaf varieties may be more sensitive to *Regiment* Herbicide than glabrous (smooth) leaf varieties, as may be varieties with low seedling vigor.
Do not apply to the rice variety Bengal.
- **Pre-Flood Application:** At application, the soil should be wet to the surface and the weeds actively growing. Following application, wait at least one day for herbicide uptake, then establish the permanent flood as soon as the rice will tolerate flooding. Under conditions in which the permanent flood is delayed, flush as necessary to maintain rice growth and maintain moisture in the weed root zone in order to ensure active weed growth. If soil is allowed to dry after application, a reduction in efficacy and/or weed re-growth may occur. Establishing the permanent flood 2 to 7 days after application will optimize weed control. Reinfestation of weeds and/or weed re-growth may occur if a permanent flood is not established in a timely manner.
- **Post-Flood Application:** Prior to application, the floodwater must be lowered so that at least 70% of the weed plant surface is above the floodwater. Failure to do so will result in insufficient weed control. Bring the field to normal flood level 2 to 3 days after application.
- When nighttime temperatures are below 60°F for 3 or more consecutive nights before or after *Regiment* Herbicide application, loss of weed control and/or weed re-growth may occur.
- Refer to the table: "Product Use Rates/Weeds."
- Use the upper end of the recommended use rate range when weed populations are approaching the maximum controllable size and/or weed infestation is severe. When weed populations are severe, a second application of *Regiment* Herbicide or another herbicide may be necessary.
- Multiple applications of *Regiment* Herbicide may be made as long as the total seasonal amount does not exceed 1.06 oz per acre and at least 3 weeks elapse between applications.
- **Late Application Barnyardgrass Suppression:** When barnyardgrass develops to stages between 4-tiler and booting, a negative influence on yield has already occurred. Controlling or suppressing barnyardgrass at these stages will maximize the remaining yield potential and reduce weed seed production.

- **Suppression of Knotgrass:** Make application after the rice is in permanent flood and 70% of the knotgrass is above the flood level. Make application prior to knotgrass heading.
- *Regiment* Herbicide may be used on Clearfield® and hybrid varieties.

TANK MIX APPLICATIONS

Regiment Herbicide may be tank mixed with 2,4-D, Blazer®, Bolero 8 EC, Command 3 ME, Dimilin®, Facet, Fury®, Grandstand® R, Karate® or Karate® Z, Londax®, Permit®, Prowl 3.3 EC, Quadris® and Rice Star™ HT. Tank mixing with Aim® may cause antagonism to the activity of *Regiment* Herbicide. Due to the potential for antagonism, a subsequent application of *Regiment* Herbicide or another herbicide may be necessary. If this tank mixture is utilized, use the *Regiment* Herbicide rate that corresponds to the next largest barnyardgrass/junglerice size as compared to the size of the barnyardgrass/junglerice in the field and do not exceed 1.0 oz of Aim per acre. If tank mixing with Facet, use the surfactants recommended for use with *Regiment* Herbicide. Do not use a crop oil concentrate surfactant with *Regiment* Herbicide alone or in combination with other herbicides or insecticides. Read and carefully observe the label claims, cautionary statements, rates and all other information on the labels of products to be used in tank mixture. Use according to the most restrictive label directions of each product in the mixture. **Do not tank mix *Regiment* Herbicide with malathion, methyl parathion, propanil or herbicidal mixtures which contain propanil because antagonism and/or injury will occur.** Do not make an application of methyl parathion or malathion within 7 days of a *Regiment* Herbicide application. Tank mixing or use of *Regiment* be the exclusive risk of the user, applicator and/or application advisor. For further information regarding tank mixtures, see the "Resistance Management" section of the label.

METHOD OF APPLICATION

Regiment Herbicide is a contact herbicide and does not have any systemic activity and thus, thorough coverage is essential for acceptable weed control. Inadequate coverage will result in unacceptable weed control and/or weed re-growth. Uniformly apply *Regiment* Herbicide or *Regiment* Herbicide tank mixes by aircraft in **no less than 10 gallons** of water per acre total spray volume or by ground equipment in a minimum of 15 to 20 gallons of water per acre total spray volume. Any factor, such as reduced spray volume, which adversely affects coverage and canopy penetration will have a negative effect on the performance of *Regiment* Herbicide. Use nozzle types and nozzle arrangements which will provide maximum coverage and minimize the potential for off target movement of spray particles. Droplet size for both **ground and air** applications should be in the "Medium" size category as defined in the August 1999 ASAE S572 publication entitled, "Spray Nozzle Classification by Droplet Spectra". Refer to that publication for additional information.

When making application with ground equipment, use flat fan nozzles only. Do not use air inducing or flood type nozzles. Do not use ditch water, turbid or high sediment water in spray equipment. Buffer application water if the pH is above 7.0 or below 6.0. (Refer to label section "Spray Drift").

MIXING AND SPRAYING EQUIPMENT PREPARATION AND CLEANUP

PRECAUTION: DO NOT USE CHLORINE BLEACH WITH AMMONIA. REMOVE ALL TRACES OF LIQUID FERTILIZER CONTAINING ANY FORM OF AMMONIA OR AMMONIUM BEFORE ADDING ANY CHLORINE SOURCE SUCH AS CHLORINE BLEACH.

Prior to using *Regiment* Herbicide, thoroughly drain, clean, and rinse all mixing and spraying equipment that will come in contact with *Regiment* Herbicide. Follow the cleanup procedures recommended by the manufacturer of the previously sprayed product. Failure to remove all deposits of previously sprayed products may result in collection of *Regiment* Herbicide residues and inhibit cleanup of mixing and spraying equipment after *Regiment* Herbicide use. Failure to remove all deposits of previously sprayed products may also result in a reduction in the efficacy of *Regiment* Herbicide or crop injury.

Residual amounts of herbicide in or on mixing or spraying equipment may have an adverse effect on subsequently sprayed crops. 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 of clean water and use a spraying/mixing tank cleaner that DOES NOT contain chlorine. Fill the remainder of the tank with clean water. Let agitate/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 of clean water and add one (1) gallon of 3% active household ammonia for every 100 gallons of water the tank will hold. Fill the remainder of the tank with clean water and allow the solution to agitate/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 strainer(s), 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.

Regiment Herbicide may remain in the spray or mixing tank for up to 3 days following mixing without loss of activity. If the spray solution is allowed to sit, thoroughly agitate before use. Carefully follow clean out instructions after the tank is emptied.

SPRAY DRIFT MANAGEMENT

Do not allow spray from ground or aerial equipment to drift onto adjacent land or crops. 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 factors involved in minimizing drift potential. **When drift may be a problem, do everything possible to reduce spray drift, including:**

1. Do not spray if wind speed is greater than 8 mph. If sensitive crops or plants are downwind, extreme caution must be used under all conditions.
2. The distance of the outer most nozzles on the boom must not exceed 3/4 the length of the wing-span or rotor.
3. Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees. Where states have more stringent regulations, they should be observed.
4. Do not apply under conditions involving possible drift to food, forage or other plantings that might be damaged or the crops thereof rendered unfit for sale, use or consumption.
5. When making tank mixture application follow the most restrictive label directions, including application buffer zones, of each product in the mixture.

Importance of Droplet size

The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Use nozzle types and nozzle arrangements that will provide maximum coverage and minimize the potential for off target movement of spray particles. Droplet size for both ground and air applications should be in the "Medium" size category as defined in the August 1999 ASAE S572 publication entitled, "Spray Nozzle Classification by Droplet Spectra". Refer to that publication for additional information. Regardless of droplet size, if applications are made improperly, or under unfavorable environmental conditions there will be off target movement of spray particles. (see Wind, Temperature and Humidity, and Temperature Inversion sections of this label).

Controlling Droplet size

Volume: use high flow rate nozzles that produce medium droplets to apply the highest practical spray volume.

Pressure: use the lower spray pressures recommended for the nozzle and do not exceed the manufacturer's recommended pressure. Higher pressure reduces droplet size and does not improve canopy penetration.

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 backwards, parallel to the airstream will produce larger droplets than other orientations. 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. Do not use air inducing or flood type nozzles.

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: applications should not be made 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 cross wind, the swath will be displaced downwind. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase, with increasing drift potential (higher wind, smaller drops, etc.).

Wind

Variable wind speeds with changing directions may pose the largest potential for drift damage if crops other than rice are adjacent to the field to be sprayed. Drift potential is lowest between wind speeds of 2 to 8 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application should be avoided below 2 mph due to variable wind direction and high inversion potential. Note: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect drift.

Temperature and Humidity

When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation but they still should remain within the medium droplet size category. Droplet evaporation is most severe when conditions are both hot and dry.

Temperature Inversions

Do not spray at times when spray particles may be entrained into a temperature inversion layer. If inversion conditions are suspected, consult with local weather services before making an application. Applications should not occur during 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 unpre-

dictable 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 connected cloud (under low wind conditions) indicates an inversion, while smoke that moves upwards and rapidly dissipates indicates good vertical air mixing.

Sensitive Areas

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

MIXING INSTRUCTIONS

Water Soluble Packaging

The bag contains water soluble packets of *Regiment* Herbicide. Do not handle the packets with wet gloves or allow the packets to become wet prior to mixing. If all packets are not used, close and reseal outer container to protect remaining packet(s). Do not add any liquid fertilizers, micronutrients or adjuvants to the spray solution until after the water soluble packets and their contents have completely dissolved. Water soluble packet(s) should completely dissolve in 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.

- Partially fill tank with water to approximately the half way mark.
- Begin agitation.
- Add *Regiment* Herbicide water soluble packets and make sure that they have dissolved completely before proceeding.
- Add approved surfactant*.
- Add tank mix partner (if any) in the following order:
 - water soluble packets (preferably added before the surfactant)
 - water dispersible granules/wettable powder
 - soluble powders
 - suspension concentrate
 - emulsifiable concentrate
- Fill remainder of tank.

*If foaming is anticipated, add defoamer prior to the addition of the surfactant.

RESISTANCE MANAGEMENT

Regiment Herbicide is a Group 2 herbicide. Any weed population may contain or develop plants naturally resistant to herbicides in various mode

of action classes. Resistant biotypes may eventually dominate the weed population if the same class of chemistry/mode of action herbicides are used repeatedly in the same field or in successive years. These resistant biotypes may not be adequately controlled by herbicides in a mode of action class for which resistance has developed. A gradual or total loss of weed control may occur over time. Other resistance mechanisms that are not linked to site of action, such as enhanced metabolism, may also exist. Appropriate resistance management strategies should be followed.

TO DELAY HERBICIDE RESISTANCE

- *Regiment* Herbicide is a Group 2 herbicide.
- Avoid the use of herbicides that have a similar target site mode of action in consecutive years. Herbicide use should be based on an IPM program that includes scouting, record keeping, and consideration of cultivation practices, water management, weed free crop seed, crop rotation, and other chemical or cultural control practices.
- Monitor treated weed population for resistance development and report suspected resistance.
- Contact your local extension or crop expert (advisor) for any additional pesticide resistance management and/or IPM recommendations for specific crops and weed biotypes.
- For further information contact Valent U.S.A. Corporation at the following toll free number 1-800-682-5368.

USE PRECAUTIONS

- Water drained directly from treated fields must not be used to irrigate other crops.
- DO NOT double spray ends of field.
- DO NOT apply more than 1.06 oz of *Regiment* Herbicide per acre per year. DO NOT apply to second crop (stubble/ratoon crop) rice.
- *Regiment* Herbicide is a contact herbicide which is not soil active and does not provide residual activity.

Reinfestation of weeds may occur if a permanent flood is not established in a timely manner.

- Any environmental (e.g., temperature, drought, etc.) or other stress (e.g., herbicide injury, fertilizer injury or nutrient deficiencies, etc.) factors which decrease plant metabolism and growth may reduce *Regiment* Herbicide efficacy and increase rice injury. DO NOT APPLY TO STRESSED RICE OR WEEDS.
- Temporary injury, chlorosis and/or stunting may occur after application but injury is transient. Fertilizer top-dressing will speed temporary injury recovery. Medium grain varieties may be more sensitive than long grain varieties. Pubescent (hairy) leaf varieties may be more sensitive to *Regiment* Herbicide than glabrous (smooth) leaf varieties.
- Varieties with low seedling vigor such as the Japanese cultivars and M-206 may be more sensitive to *Regiment* Herbicide, especially under stress conditions.
- Water-seeded rice that has not fully pegged (rice root system not completely below the soil surface) is susceptible to significant injury from *Regiment* Herbicide, regardless of number of leaves.
- DO NOT use *Regiment* Herbicide on the first rice crop grown in fields that have been land leveled resulting in severe cut and heavy fill areas (does not apply to maintenance leveling).
- *Regiment* Herbicide is a contact herbicide and does not have any systemic activity and thus, thorough coverage is essential for acceptable weed control. Inadequate coverage will result in unacceptable weed control and/or weed re-growth.
- When weed populations are severe, a second application of *Regiment* Herbicide or another herbicide may be necessary.
- Do not make an application of methyl parathion or malathion within 7 days of a *Regiment* Herbicide application.
- Do not apply to rice paddies where commercial crayfish farming is practiced.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE

Store in a cool dry place.

Keep pesticide in original container.

Keep container closed when not in use.

Do not put concentrate or dilute into food or drink containers.

Not for use or storage in or around the home.

For help with any spill, leak, fire or exposure involving this material, call day or night 1-800-892-0099.

PESTICIDE DISPOSAL

Waste resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER HANDLING

Nonrefillable outer bag. Do not reuse or refill the outer bag. Offer for recycling, if available or dispose of outer bag in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned stay out of smoke.

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Manufactured for

Valent U.S.A. Corporation

P.O. Box 8025 Walnut Creek CA 94596-8025

Form 1437-E Made in U.S.A.

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Always check with your state to verify state registration status or call 800-6-VALENT (682-5368).



For state registration and/or supplemental labels, please call or visit us online.

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