



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

November 7, 2016

Robin R. Charlton, Ph.D.
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Valent U.S.A. Corporation
1600 Riviera Ave Ste 200
Walnut Creek, CA 94596

Subject: Label Amendment – Revise water hold statements
Product Name: BOLERO 15 G (HERBICIDE)
EPA Registration Number: 59639-112
Application Date: August 2, 2016
Decision Number: 520969

Dear Ms. Charlton:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance

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with FIFRA section 6. If you have any questions, please contact Aswathy Balan by phone at 703-347-0510, or via email at balan.aswathy@epa.gov.



Shaja B. Joyner, Product Manager 20
Fungicide-Herbicide Branch
Registration Division 7505P



ACCEPTED
11/07/2016
Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 59639-112

GROUP	8	HERBICIDE
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[Bracketed text is optional.]
[Bracketed text in italics is information for the reviewer.]

**BOLERO[®] 15 G
 (HERBICIDE)**

Active Ingredient	By Wt
*Thiobencarb	15%
Other Ingredients	85%
Total	100%

*S-[(4-chlorophenyl)methyl] diethylcarbamothioate

For Use in California Only

KEEP OUT OF REACH OF CHILDREN

CAUTION

SEE NEXT PAGE FOR ADDITIONAL PRECAUTIONARY STATEMENTS

NET WEIGHT 50 AND 1200 POUNDS

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS

CAUTION

Causes eye irritation. Avoid contact with eyes or clothing. Avoid breathing dust.

FIRST AID	
If in eyes:	<ul style="list-style-type: none">• 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 inhaled:	<ul style="list-style-type: none">• 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.
If on skin or clothing:	<ul style="list-style-type: none">• 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 swallowed:	<ul style="list-style-type: none">• 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 by a poison control center or doctor.• Do not give anything to an unconscious person.
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 800-892-0099 for emergency medical treatment information.	
NOTE TO PHYSICIAN	
Thiobencarb is a cholinesterase inhibitor. If signs of cholinesterase inhibition appear, atropine is antidotal.	

PERSONAL PROTECTIVE EQUIPMENT (PPE):

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, chemical resistant apron when loading formulation into equipment or cleaning equipment and socks plus shoes.

Discard clothing or other absorbent material that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

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

All workers must wear: waterproof boots plus socks when entering flooded fields following treatment.

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 and shrimp. Do not apply directly to water except as directed on this label, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

This product is to be used in California Central Valley only. Not for use in other parts of California within the range of listed Pacific salmonids.

ENDANGERED SPECIES

The National Marine Fisheries Service has determined that thiobencarb, when used in California according to the label and existing restricted materials permit conditions, is not likely to jeopardize the continued existence of endangered or threatened salmonid species, nor is it likely to destroy or adversely modify designated critical habitat of these species. To ensure and continue the proper use of thiobencarb on rice in California, you must follow the measures contained in the Endangered Species Protection Bulletin for the county in which you are applying the product. To obtain Bulletins, no more than six months before using this product, consult <http://www.epa.gov/espp/> or call 1-800-447-3813. You must use the Bulletin valid for the month in which you will apply the product. The use limitations in the Bulletins and linked Mandatory Pesticide Use Limitations document are adapted from those currently in force for thiobencarb under the restricted materials permit conditions of the California Department of Pesticide Regulation, with enforcement by the County Agricultural Commissioners.

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 indirectly 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 7 days.

PPE required for entry within 24 hours after application 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 and waterproof boots plus socks.

PPE required for entry from 24 hours until 7 days following application 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: long pants, long-sleeved shirt and waterproof boots 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 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 AGREES THAT TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, RISKS ASSOCIATED WITH THE APPLICATION AND USE ARE ASSUMED BY THE BUYER.

To the extent consistent with applicable law, 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. To the extent consistent with applicable law, 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 EXCEPT 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 extent consistent with applicable 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 EXTENT CONSISTENT WITH APPLICABLE 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.

PROMPT NOTICE OF CLAIM

To the extent consistent with applicable law allowing such requirements Valent must be provided 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: Combination or use 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, consistent with applicable law.

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

RESISTANCE MANAGEMENT

Bolero 15 G Herbicide is a Group 8 herbicide (lipid synthesis inhibition). Any weed population may contain or develop plants naturally resistant to *Bolero* 15 G Herbicide and other Group 8 herbicides. Resistant biotypes weed species with acquired resistance to Group 8 may eventually dominate the weed population if Group 8 herbicides are used repeatedly in the same field or in successive years as the primary method of control for targeted species. These resistant biotypes may not be adequately controlled by herbicides in a mode of action class for which resistance has developed. This may result in partial or total loss of control of those species by *Bolero* 15 G Herbicide or other Group 8 herbicides.

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. If poor performance occurs and cannot be attributed to adverse weather or application conditions, a resistant biotype may be present. Contact your local extension specialist or certified crop advisor for additional pesticide resistance management and/or integrated weed management recommendations for specific crops and weed biotypes.

To delay herbicide resistance consider:

- Avoiding the consecutive use of *Bolero* 15 G Herbicide or other target site of action Group 8 herbicides that have a similar target site of action, on the same weed species.
- Using tank mixtures or premixes with herbicides from different target site of action Groups as long as the involved products are all registered for the same use, have different sites of action, and are both effective at the tank mix or prepack rate on the weed(s) of concern.
- Basing herbicide use on a comprehensive Integrated Pest Management (IPM) program.
- Monitoring treated weed populations for loss of field efficacy.
- Contacting your local extension specialist, certified crop advisors and/or manufacturer for herbicide resistance management and/or integrated weed management recommendations for specific crops and resistant weed biotypes.

For further information or to report suspected resistance, you may contact Valent U.S.A Corporation at 800-6-VALENT (682-5368).

USE INSTRUCTIONS

CROP	WEEDS	AMOUNT <i>BOLERO</i> 15 G HERBICIDE
Rice	Barnyardgrass (Watergrass) [Suppressed] Smallflower Umbrellaplant Sprangletop	[20.0 to 26.7 lb/A] [23.3 lb/A] [Use the higher rate when weed pressure is high or when the weed growth stage is near the upper application limit. Use the lower rate when weed pressure is lower and weeds are smaller in size.] [At a rate of 23.3 lb/A Barnyardgrass (Watergrass) is suppressed.]

SPECIAL INSTRUCTIONS

Apply after flooding when rice is in the expanded two-leaf stage (first open leaf). Do not apply if rice exhibits symptoms of stress. The variety Cal Pearl may react adversely to some stress conditions more than other varieties.

Optimum size for [control] [suppression] of Barnyardgrass (Watergrass) is two (2) leaves or less. Optimum size for control of Smallflower Umbrellaplant is three (3) leaves or less. Smallflower Umbrellaplant must be submerged for optimum control. Cold weather during the planting season may result in decreased weed control due to prolonged period of weed seed germination.

[Do not drain *Bolero* 15 G Herbicide treated fields for a minimum of 14 days after application, except where state regulation may allow shorter water holding periods for hydrologically isolated fields or for fields associated with systems designed to isolate discharged water from natural bodies of water. Examples of such systems include tailwater recovery systems for single or multiple fields, and use of fallowland for ponding discharge water. Contact your Department of Pesticide Regulation for further information on acceptable water management practices.]

[-or-]

[SPECIAL INSTRUCTIONS FOR CALIFORNIA ONLY]

[Do not drain *Bolero* 15 G Herbicide treated fields for a minimum of 30 days after application, except where the County Agricultural Commissioner may allow shorter water holding periods for hydrologically isolated fields, or for fields associated with systems designed to isolate discharged water from natural bodies of water. Examples of such systems include tailwater recovery systems for single or multiple fields, and use of fallow land for ponding discharge water. Contact the County Agricultural Commissioner for further information on acceptable water management practices.]

Water level in the checks should be maintained at 3 to 4 inches with no exposed soil. Water flow should be maintained at a minimum during and up to four days after application for good weed control.

USE PRECAUTIONS

- Do not make more than one application per year.
- Do not plant subsequent crops in treated fields within 6 months of last application.
- Do not apply to rice paddies where commercial catfish or crayfish farming will be practiced.
- Do not use on rice fields adjacent to catfish or crayfish ponds.
- Water drained directly from treated fields must not be used to irrigate other crops.
- Avoid application of this product within 24 hours of rainfall, or when heavy rain is expected to occur within 24 hours.
- Do not mix/load or otherwise handle this product within 100 feet of aquatic habitat.

SUGGESTED MANAGEMENT PRACTICES

Bolero 15 G Herbicide use in rice fields which have received spring incorporation of high amounts (no straw burning or removal) of straw and/or green organic matter, may reduce plant stand and yield.

Suggested management practices which will help promote soil conditions conducive for the production of healthy rice treated with *Bolero* 15 G Herbicide include:

- Burn crop residue where state regulations allow, or remove straw.
- Fall plowing/discing of crop straw.
- Chemical "burndown" of green vegetation after fall plowing/discing prior to final seed bed preparation.
- Maintain uniform flood depth of 3 to 4 inches.

Water seeded rice fields treated with *Bolero* 15 G Herbicide post-flood should be inspected regularly during tillering. If the following symptoms (associated with decomposition of crop/weed residues) occur:

1. Dark green foliage, and/or
2. Reduced plant height, and/or
3. Plant deformation, immediately drain the field (if recirculating systems or water impoundment allows) for 7 to 14 days or until the soil starts to crack. Low spots which do not drain completely may continue to display symptoms.

SUGGESTED MANAGEMENT PRACTICES POST-FLOOD WATER-SEEDED USES OF *BOLERO* 15 G HERBICIDE

Bolero 15 G Herbicide use in rice fields which develop anaerobic (low oxygen content) soil conditions following planting may reduce plant stand and yield. Anaerobic soil conditions are likely to occur when: (1) green matter and crop residue is plowed or worked into the soil prior to planting, (2) internal soil drainage is slow (poor percolation), (3) there is a continuous flood, and (4) there are areas in the field which retain water during periods of prescribed flood removal.

Management practices which will help to minimize the development of anaerobic soil conditions and thereby promote good soil conditions for the production of healthy rice treated with *Bolero* 15 G Herbicide are:

- Removal of previous crop and weed residues, or
- Destruction of previous crop and weed residues by:
 - burning (where state regulations allows)
 - fall and winter plowing
 - use of chemical “burndown” (glyphosate or paraquat) to prevent vegetation buildup after initial ground preparation (fall and winter plowing) and prior to final seedbed preparation.
- Application of fertilizer based on soil test results – do not apply excess phosphorous.
- Uniform leveling practices which eliminate low spots in the field and ensure that the field can be entirely drained, if necessary (This is far more difficult to achieve with the use of contour levees. Fields which have been precision leveled for perimeter ditches or straight levees are more suited to rapid removal of flood water.)
- Uniform flood depth of 3 to 4 inches.
- Do **NOT** exceed labeled rates of *Bolero* 15 G Herbicide. Accurately calibrate application equipment and minimize or eliminate application overlap.
- Do **NOT** use *Bolero* 15 G Herbicide on water seeded rice grown in fields which have been land leveled resulting in severe cuts and heavily filled areas (does not apply to normal maintenance leveling) in the past 18 months. Fields with a “loose” seedbed may also exhibit severe injury.
- Do **NOT** use *Bolero* 15 G Herbicide on rice grown in fields which have received chicken litter or had large amounts of green vegetative residue incorporated in the past 10 months.
- Do **NOT** use *Bolero* 15 G Herbicide on rice fields which cannot be drained as necessary due to water holding restrictions, should phytotoxic symptoms occur.
- If a post flood *Bolero* 15 G Herbicide program is used in water seeded rice, **DO NOT PLANT ADAIR, MILLIE OR L-201 RICE VARIETIES.**

Water seeded rice fields treated with *Bolero* 15 G Herbicide (post-flood) should be inspected regularly through the stand establishment and tillering stages. If phytotoxic symptoms (see Further Instructions above) occur, immediately drain the field (if recirculating systems or water impoundment allows or the field is hydrologically isolated) for 7 to 14 days or until the soil starts to crack to allow the soil to oxygenate; then re-flood. Low spots which do not drain completely may continue to display phytotoxic symptoms.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage, disposal or cleaning of equipment. Open dumping is prohibited.

PESTICIDE STORAGE

Keep pesticide in original container. Do not put concentrate or dilute into food or drink containers. Store in cool, dry place. Protect from excessive heat. For help with any spill, leak, fire or exposure involving this material, call day or night: 800-892-0099.

PESTICIDE DISPOSAL

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

CONTAINER HANDLING

Nonrefillable bag. Do not reuse or refill the bag. Completely empty the bag by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into equipment. Offer for recycling if available or dispose of empty bag in a sanitary landfill or by incineration.

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Bolero is a registered trademark of Kumiai Chemical Industry Co., Ltd.

Manufactured for:

Valent U.S.A. Corporation

P.O. Box 8025

Walnut Creek, CA 94596-8025

Made in U.S.A.

EPA Reg. No. 59639-112

EPA Est.

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