

63588-14

05/24/2007

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# K-I CHEMICAL CO. LTD.

GROUP 8 HERBICIDE

## BOLERO<sup>®</sup> 15 G (HERBICIDE)

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

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

**ACCEPTED**  
MAY 24 2007  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
63588-14

KEEP OUT OF REACH OF CHILDREN

### CAUTION

SEE NEXT PAGE FOR ADDITIONAL PRECAUTIONARY STATEMENTS

NET WEIGHT \_\_\_\_\_

**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:**
- 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:**
- 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:**
- 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:**
- 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 a poison control center or doctor.
  - Do not give anything by mouth 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  $\geq$  14 mils or Nitril Rubber  $\geq$  14 mils or Viton  $\geq$  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 there are 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, 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.

**In Louisiana**, do not apply this product south of the Intercoastal Waterway.

**In Texas**, do not apply this product within two (2) miles from the shorelines of Matagorda Bay or within two (2) miles from the shorelines of Galveston Bay.

### 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 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, sleeved shirt and waterproof boots plus socks.

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**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 K-I Chemical. 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 TO THE FULLEST EXTENT ALLOWED BY LAW, AGREES THAT ALL SUCH RISKS ASSOCIATED WITH THE APPLICATION AND USE ARE ASSUMED BY THE BUYER.

K-I Chemical 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**

K-I Chemical 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. EXCEPT AS SET FORTH ABOVE, K-I Chemical MAKES NO OTHER WARRANTIES, EITHER EXPRESSED OR IMPLIED. No agent or representative of K-I Chemical or Seller is authorized to make or create any other express or implied warranty.

**LIMITATION OF LIABILITY**

To the fullest extent allowed by law, K-I Chemical 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 K-I CHEMICAL 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, AT THE ELECTION OF K-I CHEMICAL OR SELLER, THE REPLACEMENT OF THE PRODUCT.

**PROMPT NOTICE OF CLAIM**

K-I Chemical 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 later, so that an immediate inspection of the affected property and growing crops can be made.

If Buyer does not notify K-I Chemical of any claims, in such period, it shall be barred from obtaining any remedy.

**NO AMENDMENTS**

K-I Chemical 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.

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 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 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 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).

**DIRECTIONS FOR USE**

<b>CROP</b>	<b>WEEDS</b>	<b>AMOUNT BOLERO 15 G PER ACRE</b>
Rice	Barnyardgrass (Watergrass) Smallflower Umbrellaplant Sprangletop	20.0 to 26.7 lbs.  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.

**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.

Barnyardgrass beyond the two-leaf stage and Smallflower Umbrellaplant beyond the three-leaf stage may not be controlled. 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 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.

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 adjacent to catfish 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 ft of aquatic habitat.

**SUGGESTED MANAGEMENT PRACTICES:**

*Bolero* 15 G 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 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.
- Uniform flood depth of 3 to 4 inches.

Water-seeded rice fields treated with *Bolero* 15 G 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 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 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. Accurately calibrate application equipment and minimize or eliminate application overlap.
- Do **NOT** use *Bolero* 15 G 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 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 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 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 (post flood) should be inspected regularly through the stand establishment and tillering stages. If phytotoxic symptoms (see Special Instructions above) occur, immediately drain the field (if recirculating systems or water impoundment allows or the fields 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

### PROHIBITIONS

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 1-800-892-0099.

### PESTICIDE DISPOSAL

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

### CONTAINER DISPOSAL

Completely empty bag into application equipment. Do not reuse container. Dispose of empty 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  
K-I Chemical Co. Ltd.  
White Plains, New York 10606

Made in U.S.A.

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EPA Est.