

FOR DISTRIBUTION AND USE ONLY IN THE STATE OF ARKANSAS

**BOLERO<sup>7</sup> 8 EC**

TO CONTROL ANNUAL GRASSES & AQUATIC WEEDS IN RICE

EPA REG. NO. 59639-79

EPA SLN NO. AR-940002

Rev. 1

**DIRECTIONS FOR USE**

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

**GENERAL INFORMATION**

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

BOLERO<sup>7</sup> applied in one of the following herbicide programs will control most annual grasses and aquatic weeds in rice:

- o Late preemergence
  - o BOLERO alone
  - o Tank mixture with ROUNDUP<sup>7</sup>
- o Early postemergence
  - o BOLERO Alone
  - o Tank mixture with Propanil
- o Split applications
  - o Late preemergence or preplant tank mixture with ROUNDUP followed by early postemergence tank mixture with Propanil
- o Preemergence or early postemergence followed by:
  - o BOLERO 10 G into flood
  - o BOLERO 8 EC impregnated on dry bulk fertilizer or blank granules into flood
  - o BOLERO 8 EC plus LONDAX<sup>7</sup> impregnated on blank granules into flood
  - o Preplant Red Rice suppression in water seeded rice

BOLERO will provide residual control of some weeds up to 5 weeks following application. Temporary injury to seedling rice may occur under certain conditions. DO NOT APPLY TO STRESSED RICE.

**WEEDS CONTROLLED  
BOLERO<sup>7</sup> ALONE**

| <b>COMMON NAME</b>     | <b>SCIENTIFIC NAME</b>                | <b>SIZE AT WHICH MOST EFFECTIVE CONTROL OCCURS</b> |
|------------------------|---------------------------------------|--|
| Barnyardgrass          | <i>Echinochloa crusgalli</i>          | pre - 2 leaf                                       |
| Junglerice             | <i>Echinochloa colonum</i>            | pre - 2 leaf                                       |
| Sprangletop            | <i>Leptochloa spp.</i>                | pre - 1/2"   |
| Crabgrass              | <i>Digitaria spp.</i>                 | pre - 2 leaf                                       |
| Fall Panicum           | <i>Panicum dichotomiflorum</i>        | pre - 2 leaf                                       |
| Ducksalad              | <i>Heteranthera spp.</i>              | pre - 1/2"   |
| Redstem                | <i>Ammannia spp.</i>                  | pre - 1/2"   |
| Waterhyssop            | <i>Bacopa rotundifolia</i>            | pre - 1/2"   |
| False Pimpernel        | <i>Lindernia spp.</i>                 | pre - 1/2"   |
| Annual Umbrella Plants | <i>Cyperus erythrorhizes, C. iria</i> | pre - 1/2"   |
| Hoorahgrass            | <i>Fimbristylis spp.</i>              | pre - 1/2"   |
| Annual Spikerush       | <i>Eleocharis obtusa, E. parvula</i>  | pre - 1/2"   |
| Gooseweed              | <i>Sphenoclea zeylanica</i>           | pre - 1/2"   |

**BOLERO<sup>7</sup> 8 EC PLUS ROUNDUP<sup>7</sup>  
(IN ADDITION TO WEEDS CONTROLLED BY BOLERO<sup>7</sup> ALONE)**

| <b>COMMON NAME</b>    | <b>SCIENTIFIC NAME</b>         | <b>MAXIMUM HEIGHT/LENGTH</b> | <b>RATE OF ROUNDUP D-PAK</b> | <b>RATE OF ROUNDUP</b> |
|-----------------------|--------------------------------|------------------------------|------------------------------|------------------------|
| Barnyardgrass         | <i>Echinochloa spp.</i>        | 4"                           |                              |                        |
| Little Barley         | <i>Hordeum pusillum</i>        | 12"                          |                              |                        |
| Annual Bluegrass      | <i>Poa annua</i>               | 4"                           |                              |                        |
| Downy Brome           | <i>Bromus tectorum</i>         | 6"                           |                              |                        |
| Buttercup             | <i>Ranunculus spp.</i>         | 12"                          |                              |                        |
| Cheat                 | <i>Bromus secalinus</i>        | 6"                           |                              |                        |
| Chickweed             | <i>Cerastium spp.</i>          | 6"                           |                              |                        |
| Crabgrass             | <i>Digitaria spp.</i>          | 12"                          |                              |                        |
| Dwarf Dandelion       | <i>Krigia cepitosa</i>         | 12"                          | 10 oz.                       | 16 oz.                 |
| Carolina Foxtail      | <i>Alopecurus caroliniaus</i>  | 12"                          |                              |                        |
| Seedling Johnsongrass | <i>Sorghum halepense</i>       | 12"                          |                              |                        |
| Lambsquarters         | <i>Chenopodium album</i>       | 6"                           |                              |                        |
| Marestail             | <i>Conyza canadensis</i>       | 6"                           |                              |                        |
| Morningglory Species  | <i>Ipomoea spp.</i>            | 2"                           |                              |                        |
| Mustard Species       | <i>Descurainia, Sinapis</i>    | 6"                           |                              |                        |
| Panicum Species       | <i>Panicum spp.</i>            | 12"                          |                              |                        |
| Pigweed               | <i>Amaranthus spp.</i>         | 12"                          |                              |                        |
| Shepherdspurse        | <i>Capsella bursa-pastoris</i> | 6"                           |                              |                        |
| Sicklepod             | <i>Cassia obtusifolia</i>      | 2"                           |                              |                        |
| Barnyardgrass         | <i>Echinochloa spp.</i>        | 6"                           |                              |                        |
| Broadleaf Signalgrass | <i>Brachiaria platyphylla</i>  | 4"                           | 15 oz.                       | 24 oz.                 |
| Sicklepod             | <i>Cassia obtusifolia</i>      | 3 - 4"                       |                              |                        |
| Teaweed               | <i>Sida spinosa</i>            | 4"                           |                              |                        |
| Sicklepod             | <i>Cassia obtusifolia</i>      | 8"                           | 20 oz.                       | 32 Oz.                 |
| Red Rice              | <i>Oryza sativa</i>            | 3 - 4"                       |                              |                        |

**BOLERO 8 EC PLUS PROPANIL  
(IN ADDITION TO WEEDS CONTROLLED BY BOLERO ALONE)**

| <b>COMMON NAME</b> | <b>SCIENTIFIC NAME</b> | <b>SIZE AT WHICH MOST EFFECTIVE CONTROL OCCURS</b> |
|--------------------|------------------------|--|
|--------------------|------------------------|--|

|                       |                               |                 |
|-----------------------|-------------------------------|-----------------|
| Dayflower             | <i>Commelina communis</i>     | 1/2" and less   |
| Hemp Sesbania         | <i>Sesbania exaltata</i>      | 2" and less     |
| Northern Jointvetch   | <i>Aeschynomene virginica</i> | 2" and less     |
| Broadleaf Signalgrass | <i>Brachiaria platyphylla</i> | 2" and less     |
| Goosegrass            | <i>Eleusine indica</i>        | 2 leaf and less |
| Pitted Morningglory   | <i>Ipomoea lacunosa</i>       | 2" and less     |

**BOLERO 8 EC (PLUS LONDAX IMPREGNATED ON BLANK GRANULES  
IN ADDITION TO WEEDS CONTROLLED BY BOLERO ALONE)**

| COMMON NAME       | SCIENTIFIC NAME                    | RATE OZ./A | SIZE AT WHICH MOST EFFECTIVE CONTROL OCCURS |
|-------------------|------------------------------------|------------|---|
| Annual Arrowhead  | <i>Sagitaria spp.</i>              | 1 - 1 2/3  | Less than 3 leaves                          |
| Blunt Spikerush   | <i>Eleocharis obtusa</i>           | 1 - 1 2/3  | Less than 3 leaves                          |
| Dayflower         | <i>Commelina communis</i>          | 1 - 1 2/3  | Less than 3 leaves                          |
| Ducksalad         | <i>Heteranthera limosa</i>         | 1 - 1 2/3  | Less than 3 leaves                          |
| Eclipta           | <i>Eclipta alba</i>                | 1 - 1 2/3  | Less than 3 leaves                          |
| Eisen Waterssop   | <i>Bacopa eisenii</i>              | 1 - 1 2/3  | Less than 3 leaves                          |
| False Pimpernel   | <i>Lindernia spp.</i>              | 1 - 1 2/3  | Less than 3 leaves                          |
| Gooseweed         | <i>Sphenoclea zeylanica</i>        | 1 - 1 2/3  | Less than 3 leaves                          |
| Mexicanweed       | <i>Cyperonia castanaefolia</i>     | 1 - 1 2/3  | Less than 3 leaves                          |
| Mud Plantain      | <i>Heteranthera reniformis</i>     | 1 - 1 2/3  | Less than 3 leaves                          |
| Pickernelweed     | <i>Pontederia cordata</i>          | 1 - 1 2/3  | Less than 3 leaves                          |
| Purple Ammannia   | <i>Ammannia coccinea</i>           | 1 - 1 2/3  | Less than 3 leaves                          |
| Redstem           | <i>Ammannia auriculata</i>         | 1 - 1 2/3  | Less than 3 leaves                          |
| Rice Flatsedge    | <i>Cyperus iria</i>                | 1 - 1 2/3  | Less than 3 leaves                          |
| Roughseed Bulrush | <i>Scirpus mucronatus</i>          | 1 - 1 2/3  | Less than 3 leaves                          |
| Southern Naiad    | <i>Najas guadalupensis</i>         | 1 - 1 2/3  | Less than 3 leaves                          |
| Texasweed         | <i>Cyperonia palustris</i>         | 1 - 1 2/3  | Less than 3 leaves                          |
| Water Plantain    | <i>Alisma spp.</i>                 | 1 - 1 2/3  | Seedling                                    |
| Waterwort         | <i>Elatine spp.</i>                | 1 - 1 2/3  | Less than 3 leaves                          |
| Yellow Nutsedge   | <i>Cyperus esculentus</i>          | 1 - 1 2/3  | Less than 3 leaves                          |
| Alligatorweed*    | <i>Alternanthera philoxeroides</i> | 1 2/3      | Runners under 12"                           |

\*Severe reduction in growth

**IMPORTANT NOTE:**

Read and carefully observe the label claims, cautionary statements, rates and all other information on the labels of all products. Use according to the most restrictive label directions for each product in the mixture. Occasionally registered use rates and other information on product labels are altered to reflect new information. Refer to the most recent labeling of all products.

**BOLERO ALONE OR IN COMBINATION WITH PROPANIL**

**GENERAL USE DIRECTIONS**

BOLERO 8 EC applied late preemergence or BOLERO 8 EC alone or as a tank mixture with Propanil applied early postemergence will control most annual grasses and aquatic weeds in rice. BOLERO 8 EC will provide residual control of some weeds up to 5 weeks following application. Temporary injury to seedling rice may occur under certain conditions. DO NOT APPLY TO STRESSED RICE.

**APPLICATION DIRECTIONS--DRY-SEEDED RICE**

Apply BOLERO 8 EC alone or as a tank mixture with Propanil to dry seeded rice on a moist soil surface that has no standing water as:

**Late Preemergence--** Apply 4 pts. per acre of BOLERO 8 EC (prior to rice and weed emergence) 1 to 5 days before rice emerges (usually 5 to 9 days after seeding). Soil surfaces should be sealed by rain or by flushing.

**Early Postemergence--** Apply 4 pts. per acre of BOLERO 8 EC alone or 3 - 4 pts. of BOLERO 8 EC per acre plus 3 lbs. of active Propanil per acre for emerged grasses at the 2-leaf stage of development or less (Sprangletop less than 1/2 inch), aquatics less than 1/2 inch tall and broadleaf weeds less than 2 inches tall. Rice may be emerged at the time of application. Soil should be moist at time of application.

#### **APPLICATION TO DRY CLAY OR SILT SOILS AND RICE IN THE 2 TO 3 LEAF STAGE**

Apply 3 - 4 pts. per acre of BOLERO 8 EC plus 3 lbs. of active Propanil per acre for emerged grasses at the 2-leaf stage of development or less (Sprangletop less than 1/2 inch), aquatics less than 1/2 inch tall and broadleaf weeds less than 2 inches tall. At the time of application, the soil must have previously been sealed by rain or flushing and should not be cracked. Rice should be in the 2 to 3 leaf stage of development. The soil must be moist by rain or flushing within 3 days after application or a reduction in initial control and residual activity can be expected. **DO NOT APPLY TO STRESSED RICE**, as it may be seriously injured or killed. If a flush is used to moisten the soil or heavy rains move quickly through the flood gates, lack of weed control around the gates may be evident.

#### **SPLIT APPLICATION--DRY SEEDED RICE**

##### **Preemergence Followed by Postemergence Split Application Technique**

Apply 2 pts. per acre of BOLERO 8 EC as a late preemergence application 1 to 5 days before rice emerges (usually 5 to 9 days after seeding) and prior to weed emergence. Soil surfaces should be sealed by rain or flushing and be wet at application. The seedbed should be well prepared and free of large clods. This application should be followed in 10 to 14 days by an early postemergence application of 2 pts. per acre of BOLERO 8 EC plus 3 lbs. of active Propanil per acre. Emerged grasses should be in the 1- to 2-leaf stage or less (Sprangletop less than 1/2 inch), aquatics less than 1/2 inch tall and broadleaf weeds less than 2 inches tall. Rice may be emerged at the time of the early postemergence application. Soil should be moist (without standing water) at the time of application.

OR

##### **Early Postemergence Followed by Late Postemergence Split Application Technique**

Apply an early postemergence application of 2 pts. of BOLERO 8 EC per acre plus 3 lbs. of active Propanil per acre for control of emerged grasses at the 2-leaf stage of development or less (Sprangletop less than 1/2 inch), aquatics less than 1/2 inch tall and broadleaf weeds less than 2 inches tall. This application should be followed by a late postemergence application of 2 pts. of BOLERO 8 EC per acre plus 3 lbs. of active of Propanil per acre. At the time of the late postemergence application, grasses must not exceed the 2-leaf stage of development (Sprangletop less than 1/2 inch), aquatics must be less than 1/2 inch tall and broadleaf weeds must be less than 2 inches tall. Both applications should be made when the soil surface is sealed and moist (without standing water).

#### **APPLICATION DIRECTIONS FOR WATER-SEEDED RICE**

##### **Water-Seeded Rice (Non-Flooded)**

Apply to non-flooded fields only. Application should **not** be made before rice is in the 2-leaf stage of development. Soils should be sealed and moist at the time of application.

##### **Early Postemergence**

Apply 3 pts. of BOLERO 8 EC per acre plus 3 lbs. of active Propanil per acre for emerged grasses at the 2-leaf stage of development or less (Sprangletop less than 1/2 inch), broadleaf weeds less than 2 inches tall and aquatics less than 1/2 inch tall. Application should not be made before rice is in the 2-leaf stage of development.

#### **WATER MANAGEMENT**

Soil should be kept moist after application and not be allowed to crust and crack. Fields should be flooded as soon as the rice plants will tolerate permanent flooding.

### **BOLERO COMBINATION WITH ROUNDUP STALE SEEDBED-DRILL SEEDED RICE**

## **GENERAL USE DIRECTIONS**

BOLERO 8 EC in combination with ROUNDUP applied preplant or late preemergence in a stale seedbed situation will provide control of most winter annual grasses and broadleaf weeds and provide up to 5 weeks residual control of most annual grass and aquatics infesting rice.

## **APPLICATION DIRECTIONS--STALE SEEDBED-DRILL SEEDED RICE**

### **Preplant Non-Incorporated Application Stale Seedbed--Soils With More Than 45% Clay**

Apply only in a stale seedbed situation (minimum tillage) when the clay soil has been previously prepared and has had an opportunity to weather into a surface free of large clods. DO NOT apply to a freshly prepared cloddy surface which will prohibit seed placement below the herbicide. Apply a tank mixture of 4 pts. of BOLERO 8 EC plus 10 to 20 oz. of ROUNDUP D-Pak OR 16 to 32 oz. of ROUNDUP per acre plus 4 quarts of a non-ionic surfactant (80% active) to every 100 gals. of spray solution. Seed must be drilled to a depth of at least 5/8 to 3/4 inch.

NOTE: Some varieties such as Lemont, Gulfmont, Rexmont and Mercury have shown reduced emergence when planted below 1/2 inch. Adjust seeding rate to compensate for possible stand reduction due to seed phytotoxicity and seeding depth. The soil must be wet by rain or flushing within 3 days of application or a reduction in residual activity can be expected. Weeds larger than those specified in the preceding tables will not be controlled. Supplemental herbicides may be needed for season long weed control.

OR

#### **Late Preemergence Application (Prior to Rice Emergence)**

Apply a tank mixture of 4 pts. of BOLERO 8 EC plus 10 to 20 oz. of ROUNDUP D-PAK OR 16 to 32 oz. of ROUNDUP per acre plus 4 quarts of a non-ionic surfactant (80% active) to every 100 gals. of spray solution. Application of the tank mixture must be made after the rice has begun the germination process but BEFORE emergence; generally this will be 4 to 8 days after planting. **Emerged rice will be killed.** Apply the BOLERO 8 EC plus ROUNDUP + Surfactant tank mixture to moist soils which have been sealed by rainfall or flushing. At the time of application, soil should be free of large clods. Weeds larger than those specified in the preceding tables will not be controlled.

OR

#### **SPLIT APPLICATION TECHNIQUE**

##### **First Application--Preplant Non-Incorporated Application--Soils With More Than 45% Clay**

Apply only in a stale seedbed situation (minimum tillage) when the clay soil has been previously prepared and has had an opportunity to weather into a surface free of large clods. DO NOT apply to a freshly prepared cloddy surface which will prohibit seed placement below the herbicide. Apply a tank mixture of 2 pts. of BOLERO 8 EC plus 10 to 20 oz. of ROUNDUP D-Pak OR 16 to 32 oz. of ROUNDUP per acre plus 4 quarts of a non-ionic surfactant (80% active) to every 100 gals. of spray solution. Seed must be drilled to a depth of at least 5/8 to 3/4 inch.

NOTE: Some varieties such as Lemont, Gulfmont, Rexmont and Mercury have shown reduced emergence when planted below 1/2 inch. Adjust seeding rate to compensate for possible stand reduction due to seed phytotoxicity and seeding depth. The soil must be wet by rain or flushing within 3 days of application or a reduction in residual activity can be expected. Weeds larger than those specified in the preceding tables will not be controlled. This application should be followed by an early postemergence application.

OR

##### **First Application--Late Preemergence (Prior to Rice Emergence)**

Apply a tank mixture of 2 pts. of BOLERO 8 EC plus 10 to 20 oz. of ROUNDUP D-PAK OR 16 to 32 oz. of ROUNDUP per acre plus 4 quarts of a non-ionic surfactant (80% active) to every 100 gals. of spray solution. Application of the tank mixture must be made after the rice has begun the germination process but BEFORE emergence; generally this will be 4 to 8 days after planting. **Emerged rice will be killed.** Apply the BOLERO 8 EC plus ROUNDUP + surfactant tank mixture to moist soils which have been sealed by rainfall or flushing. At the time of application, soil should be free of large clods. Weeds larger than those specified in the preceding tables will not be controlled. This application should be followed by an early postemergence application.

##### **Second Application--Early Postemergence**

Apply a tank mixture of 2 pts. of BOLERO 8 EC plus 3 lbs. of active Propanil per acre. Emerged grasses should be in the 1- to 2-leaf stage or less (Sprangletop less than 1/2 inch), aquatics less than 1/2 inch tall and broadleaf weeds less than 2 inches tall. Soil should be moist at time of application but NOT in a flooded condition.

#### **WATER MANAGEMENT**

Soil should be kept moist after application and not be allowed to crust or crack. Fields should be flooded as soon as the rice plants will tolerate permanent flooding.

**BOLERO COMBINATION WITH ROUNDUP  
WATER-SEEDED RICE**

**GENERAL USE DIRECTIONS**

BOLERO 8 EC combination with ROUNDUP applied preplant to NON-FLOODED, previously prepared rice fields will provide control of most winter annual grasses and broadleaf weeds and provide up to 5 weeks residual control of most annual grasses and aquatics infesting rice. The split application technique enables a post-flood application of BOLERO alone or in combination with LONDAX to increase the spectrum of aquatic weed control.

**APPLICATION DIRECTIONS FOR PREPLANT APPLICATION IN WATER-SEEDED (NON- FLOODED) RICE**

**Preplant Non-Flooded**

Apply a tank mixture of 4 pts. of BOLERO 8 EC plus 10 - 20 oz. of ROUNDUP D-PAK OR 16 to 32 oz. of ROUNDUP per acre plus 4 quarts of a non-ionic surfactant (80% active) to every 100 gals. of spray solution. Application of the tank mixture must be made to a non-flooded, previously prepared field which preferably has been mechanically ridged and has had drains plowed. Flood the field within 3 days after the BOLERO plus ROUNDUP application but not sooner than 1 day after application. Do not drag the field in the water after flooding nor disturb the treated seedbed in any way. Do not seed any sooner than 48 hours after the field has been brought to flood level. Follow State Extension Service recommendations for correct seeding rates. After the seeding flood has been removed to allow for stand establishment, follow normal cultural practices. Weeds larger than those specified in the preceding tables will not be controlled.

OR

**SPLIT APPLICATION TECHNIQUE**

**First Application--Preplant**

Apply a tank mixture of 2 pts. of BOLERO 8 EC plus 10 to 20 oz. of ROUNDUP D-PAK OR 16 to 32 oz. of ROUNDUP per acre plus 4 quarts of a non-ionic surfactant (80% active) to every 100 gals. of spray solution. Application of the tank mixture must be made to a non-flooded, previously prepared field which preferably has been mechanically ridged and has had drains plowed. Flood the field within 3 days of the BOLERO plus ROUNDUP application but not sooner than 1 day after application. Do not drag the field in the water after flooding nor disturb the treated seedbed in any way. Do not seed any sooner than 48 hours after the field has been brought to flood level. Follow State Extension Service recommendations for proper seeding rates. After the seeding flood has been removed to allow for stand establishment, follow normal cultural practices. This application should be followed either by an early postemergence application OR a post-flood application.

**Second Application Early Postemergence--(Non-Flooded)**

Apply to non-flooded fields only. **Application should not be made before rice is in the 2-leaf stage of development.** Soils should be sealed and moist at the time of application. Apply 2 pts. of BOLERO 8 EC per acre plus 3 lbs. of active Propanil per acre for emerged grasses at the 2-leaf stage of development or less (Sprangletop less than 1/2 inch), broadleaf weeds less than 2 inches tall and aquatics less than 1/2 inch tall.

OR

**Second Application--Post-Flood**

Apply:

1. 2 pts. of BOLERO 8 EC per acre impregnated on either dry bulk fertilizer or blank granules

OR

2. 2 pts. of BOLERO 8 EC plus 1 to 1 2/3 oz. LONDAX per acre (refer to LONDAX label for specific use rates) impregnated on blank granules

OR

3. 20 lbs. of BOLERO 10 G per acre

The post-flood application should be made when rice is in at least the 2-leaf stage of development and grass weeds are 2-leaf or less (Sprangletop less than 1/2 inch) and aquatics 1/2 inch or less (aquatics less than 3 leaf if a tank mixture of BOLERO plus LONDAX is used). Water movement between checks should be stopped or reduced to a minimum just prior to and for 3 days following application. Water should be held static for 7 days after a BOLERO + LONDAX application in order to obtain maximum weed control. **Weeds, larger than those specified in the preceding tables, will not be controlled and rice smaller than the 2-leaf stage will be injured or killed.** Water level should be maintained at 2 to 4 inches with no exposed soil. DO NOT APPLY TO STRESSED RICE.

NOTE: REFER TO BOLERO 8 EC IMPREGNATION LABELS FOR IMPREGNATION PROCEDURES, INSTRUCTIONS AND RESTRICTIONS.

### PRECAUTIONS FOR THE PREPLANT AND POST FLOOD WATER-SEEDED USES OF BOLERO

BOLERO 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 down 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 these situations and thereby promote good soil conditions for the production of healthy rice treated with BOLERO are:

- ! Destruction of previous crop and weed residues by:
  - ! burning where state regulations allow.
  - ! fall and winter plowing
  - ! use of ROUNDUP or GRAMOXONE EXTRA as a "burndown" to prevent vegetation buildup after initial ground preparation and prior to final seedbed preparation.
- ! Application of fertilizer according to soil test results  
--Do not apply excess phosphorous.
- ! Uniform leveling practices which eliminate low spots in the field and insure that the field is entirely drained for prescribed flood removal periods. 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 the intense water management practices required for the red rice suppression, pinpoint flood program.
- ! Uniform flood depth of 2" to 4".
- ! Not exceeding labeled rates of BOLERO, accurate calibration of application equipment and eliminating application overlap.
- ! Do NOT use BOLERO 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. To minimize potential injury after 18 month period in the cut and fill acres, use Bolero at the reduced rate (2 2 pts/A) for preplant red rice suppression until the soil returns to uniform structure.
- ! Do NOT use BOLERO on water-seeded rice grown in fields which have received chicken litter or had large amounts of green vegetative residue incorporated in the past 10 months. To minimize potential injury after the 10 month period, use BOLERO at the reduced rate (2 2 pts/A) for preplant red rice suppression.
- ! If a preplant BOLERO herbicide program is adopted for water-seeded rice, **DO NOT PLANT MILLIE OR L-201 rice varieties.**

Water-seeded rice fields treated with BOLERO preplant or post flood should be inspected regularly through the stand establishment and seedling growth stages. If the following phytotoxic symptoms (associated with low oxygen soil conditions)

occur:

1. dark green foliage  
and/or
2. reduced plant height  
and/or
3. plant deformation

immediately drain the flood and allow the soil to oxygenate (no standing water for 3 to 5 days) then reflood. Low spots which do not drain completely may continue to display phytotoxic symptoms.

### **DIRECTIONS FOR PREPLANT APPLICATION IN WATER-SEEDED RICE RED RICE SUPPRESSION AND SPRANGLETOP CONTROL**

#### **GENERAL USE DIRECTIONS**

##### **Preplant Non-Incorporated**

Apply BOLERO 8 EC to a well prepared seedbed which preferably has been mechanically ridged and has had drains plowed. Make application immediately after soil preparation (before any weed germination). If rain should occur after soil preparation, BOLERO 8 EC should not be applied until the soil is dry enough to support tillage operations. Red Rice or Sprangletop plants which are not killed by seedbed preparation and Red Rice or Sprangletop seed which have germinated before BOLERO 8 EC application will not be controlled. Flood the field between 2 and 3 days after the BOLERO 8 EC application. Do not drag the field or disturb the treated seedbeds after flooding. Seeding should **not** occur before 24 hours after the field has been brought to flood level. Refer to and follow State Extension Service recommendations regarding seeding rate, seeding time after flood, and drainage of seeding flood. Rice in areas which do not completely drain when the seeding flood is removed may be injured or killed. **Refer to PRECAUTIONS FOR THE PREPLANT AND POST FLOOD WATER-SEEDED USES OF BOLERO.** Begin drainage when the first leaf is about 1/4 to 1/2 inch long. For red rice suppression normal pin-point flood cultural practices (not flush or continuous flood culture) should be followed with the post seeding drainage period not to exceed 3 to 5 days. Supplemental herbicides may be needed for season long weed control. Preplant nitrogen enhances the program by promoting fast growth. The planting of early season varieties of rice as soon as possible after soil temperatures are favorable; fall preparation of rice land involving deep-plowing and subsequent shallow cultivations; and rotational schemes involving fallow, pasture and/or other non-crops, are essential for long-term integrated management of Red Rice, Sprangletop and other rice weeds. Rice injury and/or stand thinning may be evident, especially when germinating rice is subjected to stress conditions.

### **DIRECTIONS FOR PREPLANT APPLICATION FOR PARTIAL RED RICE CONTROL IN WATER-SEEDED PIN POINT FLOOD RICE**

Preplant Non-Incorporated: For Partial Control of Red Rice. Apply 4 pts. of BOLERO 8 EC per acre. A reduced rate of Bolero 8 EC should be used under certain conditions. Refer to precautions concerning cut ground and organic matter. The reduced rate will not provide the same degree of red rice suppression and will require the use of postemergence herbicides and increased water management to achieve weed control and red rice suppression. Normal pin point flood culture (not flush or continuous flood culture) should be followed. THIS IS AN INTENSE MANAGEMENT PROGRAM IN WHICH SUPPRESSION OF RED RICE IS A RESULT OF BOLERO 8 EC AND WATER MANAGEMENT.

### **SPLIT APPLICATION TECHNIQUE FOR RICE WITH SEVERE AQUATIC INFESTATION EARLY POSTEMERGENCE FOLLOWED BY POST-FLOOD**

#### **GENERAL USE DIRECTIONS FOR RICE WITH SEVERE AQUATIC WEED INFESTATION**

When aquatic weeds are a severe problem, use a tank mixture of BOLERO plus Propanil as an early postemergence treatment to non-flooded rice followed by an early post-flood application of:

1. BOLERO 8 EC plus LONDAX impregnated on blank granules  
OR
2. BOLERO 8 EC impregnated on dry bulk fertilizer or blank granules  
OR
3. BOLERO 10 G

## SPLIT APPLICATION TECHNIQUE

### Water-Seeded Rice (Non-Flooded) Early Postemergence Application

#### First Application

For control of emerged grasses at the 2-leaf stage of development or less (Sprangletop less than 1/2 inch), aquatics less than 1/2 inch and broadleaf weeds less than 2 inches: Apply a tank mixture of 2 pts. of BOLERO 8 EC plus 3 lbs. of active Propanil per acre to non-flooded fields. Application should NOT be made before rice is in the 2-leaf stage of development. Soils should be sealed and moist at the time of application. This application should be followed by a post-flood application as described below in the Post-Flood Use Directions.

#### Dry-Seeded Rice - Early Postemergence Application

#### First Application

For control of emerged grasses at the 2-leaf stage of development or less (Sprangletop less than 1/2 inch), aquatics less than 1/2 inch and broadleaves less than 2 inches: Apply a tank mixture of 2 pts. of BOLERO 8 EC plus 3 lbs. of active Propanil per acre. Soils should be sealed and moist at time of application. This application should be followed by a post-flood application as described below in the Post-Flood Use Directions.

## WATER MANAGEMENT

Soil should be kept moist after application and not be allowed to crust or crack. Fields should be flooded as soon as the rice plants will tolerate permanent flooding.

## POST-FLOOD USE DIRECTIONS DRY-SEEDED AND WATER-SEEDED RICE

### Second Application--Post-Flood

For control of grasses in the 2-leaf stage of development or less (Sprangletop less than 1/2 inch) and aquatics less than 1/2 inch. Apply a post-flood application of:

1. 20 lbs. per acre of BOLERO 10 G  
OR
2. 2 pts. of BOLERO 8 EC per acre impregnated on either dry bulk fertilizer or blank granules  
OR
3. If larger aquatics are present (up to 3 leaves), 2 pts. of BOLERO 8 EC plus 1 to 1 2/3 oz. LONDAX per acre impregnated on blank granules (refer to LONDAX label for specific use rates)

Water movement between checks should be stopped or at least reduced to a minimum just prior to and for 3 days following application. Water should be held static for 7 days after a BOLERO + LONDAX application in order to obtain maximum weed control. **Weeds larger than those specified in the preceding tables will not be controlled, and rice smaller than the 2-leaf stage will be injured or killed.** Water level should be maintained at 2 to 4 inches with no exposed soil. DO NOT APPLY TO STRESSED RICE.

NOTE: REFER TO BOLERO 8 EC IMPREGNATION LABELS FOR IMPREGNATION PROCEDURES, INSTRUCTIONS AND RESTRICTIONS.

### POST-FLOOD APPLICATION OF DRY BULK FERTILIZER OR BLANK GRANULES WITH EITHER BOLERO 8 EC OR BOLERO 8 EC PLUS LONDAX

## APPLICATION DIRECTIONS

### Post-Flood Application

Apply 3 to 4 pts. of BOLERO 8 EC impregnated on dry bulk fertilizer or blank granules or 3 to 4 pts. of BOLERO 8 EC plus 1 to 1 2/3 oz. of LONDAX impregnated on blank granules. Rice should be in at least the 2-leaf stage of development. Water movement between checks should be stopped or reduced to a minimum just prior to and for 3 days following an application

for BOLERO alone and held static for 7 days following an application of BOLERO plus LONDAX. Grass weeds should be in the 2-leaf stage of development or less (Sprangletop less than 1/2 inch) and aquatics less than 1/2 inch when BOLERO alone is used or aquatics and broadleaf weeds less than 3 leaves when BOLERO + LONDAX is used. **Weeds larger than those specified in the preceding tables will not be controlled and rice smaller than the 2-leaf stage may be injured or killed.** Water level should be maintained at 2 - 4 inches with no exposed soil. DO NOT APPLY TO STRESSED RICE.

NOTE: REFER TO THE BOLERO 8 EC IMPREGNATION SECTIONS OF THIS LABEL FOR IMPREGNATION PROCEDURES, INSTRUCTIONS AND RESTRICTIONS. READ AND CAREFULLY OBSERVE THE LABEL CLAIMS, CAUTIONARY STATEMENTS, RATES AND ALL OTHER INFORMATION ON THE LABELS OF ALL PRODUCTS.

## IMPREGNATION OF DRY BULK FERTILIZER WITH BOLERO 8 EC

### DRY BULK FERTILIZER IMPREGNATION

The impregnation or coating of dry bulk fertilizer with BOLERO 8 EC can only be done by commercial fertilizer or agricultural chemical suppliers equipped for this procedure. Dry bulk fertilizer impregnated with BOLERO 8 EC is to be used immediately (delays due to short periods of inclement weather affecting field application are acceptable) and is not to be stored or placed into small package containers. It is the responsibility of the company selling dry bulk fertilizer impregnated with BOLERO 8 EC to follow state regulations regarding bulk dry fertilizer blending, registration, labeling and application.

Preparation of the BOLERO 8 EC impregnated dry bulk fertilizer can be done with any type of commonly used dry bulk fertilizer blending equipment. Nozzles used to spray BOLERO 8 EC onto the fertilizer must be placed to provide uniform coverage. Allow sufficient time in the blending equipment to insure product uniformity and flowability. Use a minimum of 600 lbs. of blended fertilizer per gallon of BOLERO 8 EC. Do not use additional absorbent material when impregnating dry bulk fertilizer with BOLERO 8 EC.

Calculation of the proper amount of BOLERO 8 EC to be blended with fertilizer can be accomplished using the following formula:

$$\frac{\text{Intended BOLERO Use Rate}}{\text{Pounds Fertilizer/Acre}} \times \frac{\text{Pints/Acre} \times 2000}{\text{Pounds Fertilizer/Acre}} = \frac{\text{Pints BOLERO 8 EC}}{\text{Per Ton of Dry Bulk Fertilizer}}$$

**DO NOT impregnate BOLERO 8 EC mixtures on ammonium nitrate, potassium nitrate or sodium nitrate either alone or in blends with other fertilizers.**

### APPLICATION

In order to obtain maximum weed control, uniformity of BOLERO 8 EC on the dry bulk fertilizer particles and uniformly consistent distribution in the field are essential. The amount of BOLERO 8 EC used in the dry bulk fertilizer blending procedure must be carefully calculated for each intended use in order to ensure the correct use rate of BOLERO is being applied. Follow all use directions and label precautions as specified in the BOLERO label(s) regarding the use of dry bulk fertilizer impregnated with BOLERO 8 EC.

## IMPREGNATION OF BLANK GRANULES WITH BOLERO 8 EC

### IMPREGNATION ON GRANULE BLANKS

The impregnation or coating of granule blanks with BOLERO 8 EC alone or specified BOLERO 8 EC tank mixtures can be done only by commercial fertilizer or agricultural chemical suppliers equipped for this procedure. Blank granules impregnated with BOLERO 8 EC or specified BOLERO 8 EC tank mixtures must be used immediately (delays due to short periods of inclement weather affecting field application are acceptable) and are not to be stored or placed into small package containers. It is the responsibility of the company selling blank granules impregnated with BOLERO 8 EC or BOLERO tank mixtures to follow state regulations regarding impregnation of blank granules, registration, labeling and application.

Preparation of the BOLERO 8 EC alone or specified BOLERO 8 EC tank mixtures can be done with any type of commonly used dry bulk fertilizer blending equipment. Nozzles used to spray BOLERO 8 EC or specified BOLERO 8 EC tank mixtures must be placed to provide uniform coverage. Allow sufficient time in the blending equipment to ensure product uniformity and flowability. Use a minimum of 80 lbs. of granule blanks per gallon of BOLERO 8 EC alone or specified BOLERO 8 EC tank

mixtures. Do not use additional absorbent material when impregnating granule blanks with BOLERO 8 EC alone or specified BOLERO 8 EC tank mixtures. Calculation of the proper amount of BOLERO 8 EC to be blended with blank granules can be accomplished using the following formula.

$$\frac{\text{Intended BOLERO Use Rate}}{\text{Pounds Blank Granules/A}} \times 1000 = \frac{\text{Pints BOLERO 8 EC}}{\text{Per 1000 Pounds of Blank Granules}}$$

Calculation of the proper amount of dry formulated herbicide to be blended with blank granules can be accomplished using the following formula.

$$\frac{\text{Intended Use Rate}}{\text{Blank Granules}} \times 1000 = \frac{\text{Ounces Dry Formulated Herbicide}}{\text{Per 1000 Pounds of Pounds Blank Granules/A}}$$

#### **FURTHER INSTRUCTIONS REGARDING MIXING BOLERO AND DRY FORMULATED HERBICIDES, I.E., LONDAX**

Clay granules are exceptionally absorptive. Ensure spraying and mixing times are adequate to provide uniformity. Uniform particle coverage during impregnation is essential in order to provide even distribution of BOLERO alone or BOLERO in combination with LONDAX during field application.

## APPROVED BLANK GRANULE SPECIFICATIONS:

Two absorptive granular clays are appropriate for impregnation with BOLERO 8 EC; attapulgite or montmorillonite clay, RVM or LVM grades. The granular clays can be obtained in various particle sizes, as defined by the mesh size. Typical agricultural chemical granular particle size ranges include 15/30, 20/40 or 24/48 mesh. These ranges, or similar ranges, are recommended for use with BOLERO 8 EC and for the intended applications.

## APPLICATION:

In order to obtain maximum weed control, uniformity of BOLERO 8 EC alone or specified BOLERO 8 EC tank mixtures on the approved blank granule particles and uniformly consistent distribution in the field are essential. The amount of BOLERO 8 EC or specified BOLERO 8 EC tank mixtures used in the blank granule impregnation procedure must be carefully calculated for each intended use in order to ensure the correct use rate is being applied. Follow all use directions and label precautions as specified in the BOLERO label(s) regarding the use of blank granules impregnated with BOLERO 8 EC. When using a specified tank mixture, read and follow all precautionary, worker safety, warning, mixing and cleanup procedure statements on the label of the specified tank mixture. Conform to the most restrictive labeling when using a specified tank mixture.

## METHOD OF APPLICATION

Uniformly apply BOLERO 8 EC OR BOLERO 8 EC plus Propanil OR BOLERO 8 EC plus ROUNDUP by aircraft in no less than 10 gals. per acre of total spray mixture or by ground equipment in 10 to 20 gals. per acre of total spray mixture. Uniformly apply BOLERO 8 EC impregnated on dry bulk fertilizer or blank granules, OR BOLERO 8 EC + LONDAX impregnated on blank granules OR BOLERO 10 G by aircraft. Do not overlap or double-treat ends of fields. Do not permit drift onto catfish, crayfish, shrimp or minnow ponds. DO NOT APPLY TO STRESSED RICE. DO NOT apply to exposed seed.

NOTE: The Propanil or ROUNDUP component in the BOLERO 8 EC tank mixtures increases the postemergence activity for control of weeds listed. The tank mixture BOLERO 8 EC plus Propanil or BOLERO plus ROUNDUP plus surfactant will not prevent reinfestation of Hemp Sesbania, Northern or Indian Jointvetch, Broadleaf Signalgrass, Annual Morningglory, Annual Bluegrass, Little Barley, Downy Brome, Buttercup, Cheat, Chickweed, Dwarf Dandelion, Carolina Foxtail, Johnsongrass, Lambsquarters, Marestail, Mustard, Panicum species other than Fall Panicum, Pigweed, Red Rice, Shepherdspurse, Sicklepod, Teaweed, Goosegrass, Gulf Cockspur, Paragrass, Redroot Pigweed, Redweed, Texas Weed, and Pitted Morningglory.

## PRECAUTIONS

Read and carefully observe the label claims, cautionary statements, rates and all other information on the labels of all products. Use according to the most restrictive label directions of each product in the mixture. **REFER TO STATE PRECAUTIONARY STATEMENTS ON RICE VARIETAL HERBICIDE SENSITIVITY.**

Do not apply to stressed rice or second crop (stubble crop) rice. For additional water-seeded precautions refer to **PRECAUTIONS FOR THE PREPLANT AND POST FLOOD WATER-SEEDED USES OF BOLERO.** Do not use BOLERO or BOLERO tank mixtures on the rice variety L201. Do not plant subsequent crops in BOLERO treated fields within 6 months of last application. Follow the most restrictive label directions concerning rotational cropping and crop failure. Do not permit drift into catfish, crayfish, shrimp or minnow ponds. Water drained directly from treated fields must not be used to irrigate other crops. Do not apply more than 4 lbs. BOLERO active ingredient per acre per year. Do not apply BOLERO tank mixtures within 14 days before or after organophosphate or carbamate insecticide application. Do not apply when temperatures exceed 95EF. Do not apply BOLERO 8 EC postemergence tank mixtures when rain is expected within 6 hours. Rice seedlings with succulent growth may exhibit temporary foliar burn which may be greater than conventional propanil application but usually recovers after 10 to 14 days. Do not add liquid nitrogen or zinc with BOLERO 8 EC alone or when tank mixed with Propanil or ARROSOLO 3-3 OR FACET 75 DF for postemergence applications. The use of surfactants or other spray additives with BOLERO 8 EC alone or in tank mix combinations with ARROSOLO 3-3 E or propanil or FACET 75 DF is done at the sole risk of the user.

Application to stressed rice can result in stand reductions, chlorosis, growth inhibition, delayed maturity and/or leaf desiccation. Stress factors include but are not limited to the following: Daily temperatures below 65EF, or above 95EF, problem soils (i.e., Zn deficiency, high salt content, high pH), excessive moisture (i.e., above field capacity while rice seed is germinating), drought conditions, poor field drainage, deep water after application, or application of herbicide(s) either before or after Bolero application. Stress management practices include determining rice plant vigor by inspecting both top growth and root growth before applying herbicides.



**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.**

\* \* \* \* \*

Follow all applicable directions, restrictions, and precautions on the EPA-registered label.

This labeling must be in the possession of the user at the time of pesticide application.

24(c) Registrant: VALENT U.S.A. Corporation  
P. O. Box 8025  
Walnut Creek, CA 94596-8025

BOLERO<sup>7</sup> - Reg. TM of Kumiai Chemical Industry Co., Ltd. for thiobencarb herbicide.

ROUNDUP<sup>7</sup> - Reg. TM of Monsanto Agricultural Company.

LONDAX<sup>7</sup> - Reg. TM of E.I. du Pont de Nemours & Co. (Inc.)