# 03 AUG 1992

Jackie DiMaggio K-I Chemical U.S.A., Inc. c/o Valent U.S.A. Corporation 1333 N. California Blvd., Suite 600 Walnut Creek, CA 94596-8025

Dear Ms. DiMaggio:

Subject: Revised Label - Remove Listing of Rice States

Bolero 8 EC

EPA Registration No. 63588-6

Your Submission Dated June 19, 1992

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable. A stamped copy is enclosed for your records. Please submit three (3) final printed copies for the above mentioned label.

Please note that the Agency letter dated March 17, 1992 required additional label statements concerning restrictive use wording with rice to protect the endangered fat pocketbook pearly mussel. We still await your response to these items.

Sincerely yours,

Joanne I. Miller Product Manager (23) Fungicide-Herbicide Branch Registration Division (H7505C)

Enclosure

CC: DAN RIEDER (EEB)

	GANGUAGNOS:	
STHOR NH7505C		
TANKET		
MATE 1784/12		
GPA Perm 1979-1A (1/86)	Printed on Regulat Paper	oppicial file copy

### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS CAUTION

Causes eye irritation. Harmful if swallowed. Avoid contact with eyes, skin and clothing. Avoid breathing spray mist.

### STATEMENT OF PRACTICAL TREATMENT

In case of eye contact, wash eyes immediately with plenty of water. See a doctor if irritation persists. If swallowed, give a large amount of water to drink, make person vomit, and call a doctor.

Note to Physicians: Emergency Information — call 1-800-457-2022.

### ENVIRONMENTAL HAZARDS

This product is toxic to shrimp. Do not apply directly to lakes, streams, ponds, tidal marshes and estuaries. Do not contaminate water by cleaning of equipment or disposal of wastes.

The use of BOLERO 8 EC on rice is restricted to protect the endangered for pocketbook pearly mussel (Potamilus capax) and its habitat. Use is prohibited in the following greas of

Mississippi County - Within the basin that drains directly into the Right Hand Chute of Little River, south of Big Lake National Wildlife Refuge.

Poinsett County - Between Crowley's Ridge and the levee east of the Right Hand Chute of Little River and the St. Francis Floodway. Use is also prohibited west of Rt. 140 and north of Rt. 63 at the siphon near Marked Tree. Except that the prohibited area does not include the area bounded by Arkansas highway 373 on the west, highway 63 on the east and highway 14 on the south.

Cross, St. Francis and Lee Counties — Between Crowley's Ridge and the levee east of the Right Hand Chute of Little River and the St. Francis Floodway as far south as the confluence of L'Anguille River (Lee County).

## PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame.

ACCEPTED

(HERBICIDE)

Inert Ingredients

thiobencorb herbicide.

Active Ingredient
\*Thiobencarb .....

diethykarbamothicate per gollon.

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

BOLERO®-Reg. TM of Kumiai Chemical Industry Co., Ltd., for

Contains 8 pounds S-[(4-chlorophenyl)methyl]

DIRECTIONS FOR USE
It is a violation of Federal Law to use this product in a matter Direct. CUT OF REACH OF CHILDREN inconsistent with its labeling. inconsistent with its labeling.

CAUTION

DEST AVAILABLE COPT

BOLERO' & EC

PRECAUTIONARY STATEMENTS AND DIRECTIONS, AND WHAUG 1982 SIDE PANEL FOR ADDITIONAL APPLICABLE STATE AND FEDERAL REGULATIONS.

# STORAGE AND DISPOSAL for the pexicide

### **PROHIBITIONS**

Do not contaminate water, food or feed by storage or cleaning of equipment. Open dumping is prohibited 3.

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 1-800-457-2022, or Chemtrec 1-800-

### 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

Triple rinse (or equivalent). Do not reuse container. Offer for recycling or reconditioning, or puncture and dispose of in a contrary landfill, or dispose of by other procedures allowed by State and local authorities.

# K-I Chemical U.S.A., Inc. © 1992

White Plains, New York 10606 Mede in U.S.A. R form 10129-N EPA Est. 5905-64-1

EPA Rog. No. 63588-6

E EZA Reg. J. la.

**NET CONTENTS GALLONS** 



By Wt.

..... 16%

DIRECTIONS Do not apply this product ti

RICE WEED CONTROL IN MISSOURI AND ARKANSA

## GENERAL INFORMATION

BOLERO 8 EC applied lat weeds in rice. The Proponi Proponil tank mixture increated of weeds listed. BOLERO of some weeds up to 5 week 8 EC plus Proponil tank mix Hemp Sesbania, Northern or grass or Pitted Marningglor non-flooded fields only, opp rice is in the 2 leaf stage sealed and wet at the tim stressed rice. Temporary inju certain conditions.

### DRY-SEEDED RICE

Late Preemergence Applicat gence) — For control of Ba spp.), Sprangletop (Leptochi Fall Panicum (Panicum dich communis), Eclipta (Eclipta o spp.): Apply BOLERO 8 EC generally this would be 5 to Apply 4 pts. of BOLERO 8 sealed by rainfall or by flus beds free of large clods. So cation. Do not apply BOLE ment to cracked soil.

Early Postemorgence Applic Watergrees: Apply 4 pts. of grass has developed no furti be fully emerged at time of time of application.

Early Postemorgence Applica For control of Bernyerdgress Signolgress (Brechierie plat Duckselad (Heteranthera spp. hyssep (Bacepa retundifelia hyssep (Bacapa retundifelia perus erythrerhizes, C. irle porvule), Horrahgress (Ciniti bania exelleta, Northorn on spp.), Dayflewer, Eclipte a locunose):

- 1. Application to Wet Seil -8 EC plus 2 to 3 ats. of P grasses at the 2 leaf stage of less than ½"), aquatics less less than 2" tall. Rice may be Soil should be wet at the tie
- 2. Application to Dry Clay 2 to 3 Loof Stage Appl - Appl plus 2 to 3 qts. of Proponil at the 2 leaf stage of de than 14"), aquatics less than than 2" tall. At the time of ed. Rice should be in the 2 must be wet by rain & on or o reduction in

De not apply this product through any type of intention system.

RICE WETH CONTROL IN TEXAS, LOUISIANA, MISSISSIPPI, S. MISSOURT AND ARKANSAS.

C GENERAL INFORMATION

BOLERO 8 EC applied late preemergence will control many weeds in rice. The Propanil component of BOLERO 8 EC plus Propanil tank mixture increases postemergence activity for control of weeds listed. BOLERO 8 EC will provide residual control of some weeds up to 5 weeks following application. The BOLERO 8 EC plus Propanil tank mixture will not prevent reinfestation of Hemp Sesbania, Northern or Indian Jointvetch, Broadleaf Signalgrass or Pitted Marningglory. For water-seeded rice, apply to non-flooded fields only, application should not be made before rice is in the 2 leaf stage of development and soils should be sealed and wet at the time of application. Do not apply ustressed rice. Temporary injury to seedling rice may occur under certain conditions.

DRY-SEEDED RICE

Late Preemergence Application (Prior to rice and weed emergence) — For control of Barnyardgrass, Junglerice (Echinochlou spp.), Sprongletop (Leptochlou spp.), Crabgrass (Digitaria spp.), Fall Panicum (Panicum dichotomiflorum), Dayflower (Commelina communis), Eclipta (Eclipta alba) and False Pimpernus (Lindernia spp.): Apply BOLERO 8 EC 1 to 5 days prior to rice emergence; generally this would be 5 to 9 days after planting of the rice. Apply 4 pts. of BOLERO 8 EC per acre after soils have been sealed by rainfall or by flushing. Apply to well prepared seedbeds free of large clods. Sails should be wet at time of application. Do not apply BOLERO 8 EC as a preemergence treatment to cracked soil.

Early Postemergence Application — For control of emerged Wittergrass: Apply 4 pts. of BOLERO 8 EC per acre when Watergrass has developed no further than the 2 leaf stage. Rice may be fully emerged at time of application. Soil should be wet at time of application.

Early Postemergence Application in Combination with Propontil — For control of Barnyardgrass, Junglerice, Sprangletop, Braadleaf Signalgrass (Brachiaria platyphylla), Crabgrass, Fall Panicum, Ducksalad (Heteranthera spp.), Redstem (Ammannia spp.), Waterhyssop (Bacopa rotundifolia), False Pimpernel, Flatsedge (Cyperus erythrorhizos, C. iria), Spikerush (Eleacharis obtuse, E. parvulo), Horrahgrass (Fimbristylis spp.), Hemp Sesbania (Sespania exaltata, Northern and Indian Jointvetch (Asechynomene spp.), Dayflower, Eclipto and Pitted Marningglery (Impomea focunosa):

1. Application to Wet Soil — Apply 3 pts. per acre of BOLERO 8 EC plus 2 to 3 ats. of Proposil 4 E per acre for emerged grasses at the 2 leaf stage of development or less (Sprangletop less than ½"), aquatics less than ½" tall and broadleaf weeds less than 2" tall. Rice may be emerged at the time of application. Soil should be wet at the time of application.

2. Application to Dry Clay or Sile Loom Seils and Rice in the 2 to 3 teaf Stage — Apply 3 opin per ear street DLERO 8 EC plus 2 to 3 ats. of Propanil of E per acrif followers at the 2 leaf stage of development or less (Sprangleton less than ½"), aquatics less than ½" tall and hyperisof weeds less than 2" tall. At the time of application, the seil must have previously been sealed by rain or flushing only hyperison to be cracked. Rice should be in the 2 teas less stage of development. The soil must be wet by rain by Jerling within 3 days after opplication or a reduction in initial control and residual activity can be expected. Do not physical stressed rice as it may be seriously injured or killed. If a flush is used to wet the soil or

control around the gates may be evident.

3. Split Application — Apply BOLERO 8 EC alone as a Late Preemergence Application followed by a tank mixture with Proposil as an early postemergence application to dry seeded rice on a smooth, wet soil surface in a split application schedule as:

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 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 2 to 3 ats, per acre of Propanil 4 E. Emerged grasses should be in the 1 to 2 leaf stage or less (Sprangletop less than ½"), aquatics less than ½" tall and broadleaf weeds less than 2" tall. Rice may be emerged at the time of the early postemergence application, Soil should be wet at the time of application.

WATER-SEEDED RICE

Early Postemergence — For control of Barnyardgrass, Junglerice, Sprangletop, Broadleaf Signalgrass, Crabgrass, Fall Panicum, Ducksalad, Redstein, Waterhyssop, False Pimpernel, Flatsedge, Spikerush, Horrahgrass, Hemp Sesbania, Northern and Indian Jointgrass, Dayflower, Eclipta and Pitted Morningglory; Apply to non-flooded fields only. Apply 3 pts. of BOLERO 8 EC per acre plus 2 to 3 ats. of Propanil 4 E for emerged grasses at the 2 leaf stage of development or less (Sprangletop less than ½") broadleaf weeds less than 2" tall and aquatics less than ½" tall. Application should not be made before rice is in the 2 leaf stage of development and soil should be sealed and wet at the time of application,

Do not apply BOLERO 8 EC to stressed rice. Do not apply BOLERO 8 EC to fields with exposed seed as exposed seed will be killed. Do not apply BOLERO 8 EC to second crop (stubble crop) rice.

Water Management—After application, flush the fields as often as necessary to prevent crusting and drying of the soil. Fields should be flooded as soon as the rice plants will tolerate permanent flooding.

**Application Equipment** 

Aircraft: Apply BOLERO 8 EC in no less than 10 gals, spray mix per ocre.

Ground Sprayers: Apply in 10 to 20 gals, of total spray mix per acre.

Precautions: Do not apply more than 4 lbs. active ingredient per acre per year. Do not plant subsequent crops in treated fields within 6 months of last application. Do not overlap or double spray ends of field. Avoid drift to non-target areas. Do not use in fields where fall farming of crayfish will be practiced. Do not use adjacent to catfish ponds. In Texas and other areas where double cropping is the agricultural practice, do not apply to a second stubble rice crop. Water drained directly from treated fields must not be used to irrigate other crops.

Do not apply BOLERO 8 EC plus Propanil mixture within 14 days before or after organophosphate or carbamate insecticide application. Do not apply tank mix with Propanil 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 recover after 10 to 14 days. Do not mix liquid nitrogen, zinc or surfactants with BOLERO 8 EC alone or when mixed with Propanil.

This product can be mixed with Proposil for use on rice in accordance with the more restrictive of label limitations and precautions. No label dosage rates should be exceeded. This

prohibition against such mixing.

Application to stressed rice can result in stand reduction, chlorosis, growth inhibition, delayed maturity and/or leaf desiccation. Stress toctors include but are not limited to the following: Daily temperatures below 65° F., or above 95° F., problem soils, (i.e., Zn deficiency, high salt content, high pH.), excessive moisture, (i.e., above field copacity while rice seed is germinating), drought conditions, paor field drainage or deep water after application.

**VEGETABLES** 

CELERY — Grown on muck soil (Florida only): For control of Common Purslane, Barnyardgrass and Gaosegrass and suppression of Common Lambequarters and Figweed. Make application of 4 qts. BOLERO 8 EC per acre after transplanting and prior to weed germination/emergence. Apply with ground equipment in 30 to 40 gals, of water per acre no later than 10 days after transplanting. For best performance, soil must be wet at the time of application. Additional moisture (overhead irrigation) after application may improve performance. Celery must be trimmed (tops removed) at horvest. Do not use tips for celery flakes, Do not apply BOLERO 8 EC within 70 days of harvest.

ENDIVE (ESCAROLE), LETTUCE — Grown on muck soil (Florida only): For control of Common Pursiane and Barnyardgrass and suppression of Pigweed. Make application of 3 qts. BOLERO 8 EC per acre after planting and prior to weed germination/emergence (no later than 10 days after planting). Apply by either broadcast or a directed, shielded spray (to row middles) with ground equipment in 30 to 50 gals, of water per acre. For best performance soil must be wet at the time of application. Additional moisture (overhead irrigation) soon after application may improve performance. BOLERO 8 EC can cause crop stunting if the crop seed zone is treated (particularly under high temperature and moisture conditions), Do not apply BOLERO 8 EC within 60 days of harvest.

PRECAUTIONS: Do not rotate crops other than celery, endive (escorole) and lettuce into BOLERO treated fields within 4 months of BOLERO application. Do not feed crop or crop remains to livestock or allow grazing in treated areas.

Do not apply under conditions involving possible drift to food, forage or other plantings that might be damaged or the crops thereof rendered until for sale, use or consumption.

IMPORTANT INFORMATION, READ BEFORE USING PRODUCT.

LIMITED WARRANTY: 1. K-I Chemical U.S.A., Inc., warrants that this product conforms to the chemical description on the label and is reasonably fit for use under average conditions when used strictly in occordance with the directions on the labeling. K-I Chemical does not make nor authorizes any agent or representative to make, any other warranty, guarantee or representation, express or implied, concerning this product. Specifically, NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE IS MADE.

2. Critical and unforeseeable factors beyond K-1 Chemical's control prevent it from eliminating all risks in connection with the use of this product. Such risks include, but are not limited to, admage to plants and crops to which product is applied, fack of complete control over the handling and application of this product, and damage caused by drift to other plants or crops. Such risks occur even though the product is reasonably fit under average conditions for the uses stated on the labeling and even though label directions are followed. Buyer and user acknowledge and assume all risks and liability (except those assumed by K-1 Chemical under 1 above) resulting from handling, storage, and use of the product.

3. Precautions stated on the labeling should be followed to avoid hazardous exposure to the graduct.

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