

WEEDS CONTROLLED

Barnyardgrass (Watergrass)	
<i>Echinochloa crusgalli</i> or <i>Echinochloa colomum</i>	
Alligator Weed	Mexican Weed
<i>Alternanthera philoxeroides</i>	<i>Cyperus palustris</i>
Brachiaria	Paragrass
<i>Brachiaria</i> spp.	<i>Panicum purpurascens</i>
Crabgrass	Pigweed
<i>Digitaria sanguinalis</i>	<i>Amaranthus retroflexus</i>
Croton	Redweed (Teaweed)
<i>Croton capitatus</i>	<i>Melochia cochinchinensis</i>
Curly Indigo	Sour Dock
<i>Aeschynomene virginica</i>	<i>Rumex crispus</i>
Foxtail	Spearhead
<i>Setaria</i> spp.	<i>Rhynchospora corniculata</i>
Goosegrass	Tall Indigo or Coffee Bean
<i>Flourensia indica</i>	<i>Sesbania exaltata</i>
Gulf Cockspur	Texas Millet
<i>Echinochloa crus-galli</i>	<i>Panicum texanum</i>
Hoorabgrass	Wiregrass
<i>Imbristia millicecae</i>	<i>Eleocharis</i> spp.

WEEDS NOT CONTROLLED

Arrowhead	Johnsongrass
<i>Sagittaria</i> spp.	<i>Sorghum halepense</i>
Bermudagrass	Nutgrass
<i>Cynodon dactylon</i>	<i>Cyperus</i> spp.
Cattail	Red Rice
<i>Typha latifolia</i>	<i>Oryza sativa</i>
Ducksalad	Sprangletop
<i>Heteranthera</i> spp.	<i>Leptochloa</i> spp.

GENERAL INFORMATION

CRYSTAL PROPANIL 4E is a post-emergence herbicide for the control of many grasses and broadleaf weeds in rice fields only. It may be applied by either ground or aerial spray equipment, after dilution and thorough agitation with water. CRYSTAL PROPANIL 4E is not a hormone-type herbicide, but kills susceptible plants by direct contact action. For this reason, thorough spray coverage of weeds to be killed is necessary for best results.

CRYSTAL PROPANIL 4E should be applied when weeds and grasses are small. See Directions for Use. Use only on fields which have been drained of flood water.

Rice fields to be treated should be inspected frequently before the application of CRYSTAL PROPANIL 4E to insure that barnyard or watergrass is at the proper stage of growth: 1 to 3 leaf stage with an occasional 4 leaf plant.

ATTENTION: Never apply CRYSTAL PROPANIL 4E except as recommended on this label because use in any other way may cause injury to persons, animals, or crops, or other unintended consequences.

DO NOT APPLY CRYSTAL PROPANIL 4E WITHIN FOURTEEN DAYS before or after insecticide applications because serious damage to rice may occur.

Do not apply to any crops other than rice. Before applying CRYSTAL PROPANIL 4E, make sure the spray equipment is properly calibrated to avoid over- or under-treatment.

Do not apply CRYSTAL PROPANIL 4E under wind conditions which will allow drift to adjacent susceptible crops such as beans, soybeans, cotton, safflower, cucurbits, vegetables, orchards and other sensitive crops. Wind velocity greater than 5 miles per hour will often cause applications to be streaked and give less than maximum herbicidal control.

Keep this container closed when not in use. Do not reuse for other purposes as its toxic contents cannot be entirely removed.

Do not reuse empty container. Destroy it by perforating or crushing. Bury or discard in a safe place.

This product is toxic to fish. Keep out of lakes, streams and ponds. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water by cleaning of equipment, or disposal of wastes.

DIRECTIONS FOR USE—RICE ONLY

Do not use until you have also read the entire label. Rice fields should be well prepared and free of large clods to obtain uniform germination of grasses and weeds, and to insure uniform flood levels. If necessary, fields may be

CRYSTAL PROPANIL 4E

*For post-emergence control
of Barnyardgrass and
other weeds in Rice*

ACTIVE INGREDIENT:	3, 4-Dichloropropionanilide	45.0%
INERT INGREDIENTS:		55.0%
	*Contains 4 pounds of 3, 4-dichloropropionanilide per gallon.	

Use only according to these label instructions

CAUTION: KEEP OUT OF REACH OF CHILDREN.

Harmful if swallowed or absorbed through skin. Causes severe eye irritation. May cause skin irritation. Avoid contact with eyes, skin or clothing. Avoid prolonged breathing of vapor or mist. Do not use, pour, spill or store near heat or open flame. In case of contact, flush skin or eyes with plenty of water for at least 15 minutes; for eyes, get medical attention. Do not store near food, fertilizer, seeds, insecticides or fungicides.

CRYSTAL CHEMICAL COMPANY

1525 N. Post Oak Road
Houston, Texas 77055



30 NET U.S. GALLONS

ACCEPTED

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flushed prior to treatment to produce uniform grass germination. If fields are flushed prior to treatment, flush in sufficient time so that grass and rice are growing vigorously at time of treatment. Water should be drained from fields before spraying so that grasses and weeds are fully exposed to the spray.

CRYSTAL PROPANIL 4E acts only on grasses and weeds which have already germinated. Maximum action usually is not apparent until 3 to 5 days after application. To prevent weeds from germinating after treatment, fields should be flooded within 24 hours after spraying, or as soon as possible after 24 hours. Flooding after spraying will improve the grass control after CRYSTAL PROPANIL 4E treatment. In cases where flooding of the field would not be complete within seven days or less after application of CRYSTAL PROPANIL 4E, it is best to treat a portion of the field, flood that treated portion, and then treat the remainder. This will help prevent reinfestation of weeds and grasses. Higher rates (4-6 quarts) may be necessary on the remainder since the grass will be more mature.

If the rice is too small to maintain a flood on the field, treatment should be delayed until the rice is large enough. The grass may then be large enough to require 4-6 quarts of CRYSTAL PROPANIL 4E.

Avoid treatment if rain threatens within 6-8 hours or if high winds may cause uneven application or drift.

In case of unseasonably cool weather, higher rates (4-6 quarts) of CRYSTAL PROPANIL 4E may be necessary. The number of leaves of barnyard or watergrass determines the time and amount of CRYSTAL PROPANIL 4E to spray, regardless of the size of the rice. THE GROWER SHOULD INSPECT FIELDS FREQUENTLY TO DETERMINE PROPER TIME OF APPLICATION. The ideal application time is when most barnyardgrass has one to three leaves, with only an occasional plant having four leaves. During drought conditions grasses may reach the three leaf stage while still quite short or stunted, so special attention to stage of growth is necessary in these situations to avoid grasses becoming too mature for best results.

Apply 4 quarts of CRYSTAL PROPANIL 4E per acre when most grass has reached the one to three leaf stage. Use 1 to 6 quarts of CRYSTAL PROPANIL 4E per acre if grasses are larger, with most in the four to six leaf stage. Mix CRYSTAL PROPANIL 4E thoroughly with water for spraying, using vigorous mechanical agitation. For AERIAL APPLICATION dilute to the proper amount of CRYSTAL PROPANIL 4E with 10 to 12 gallons of water per acre. For GROUND EQUIPMENT dilute to the proper amount of CRYSTAL PROPANIL 4E with 10 to 25 gallons of water per acre. Lesser amounts of water often give inadequate coverage and may cause poor results.

If fields cannot be completely drained so that all of the grass is exposed, a higher dosage of CRYSTAL PROPANIL 4E (4-6 quarts per acre) should be used.

NOTICE: When CRYSTAL PROPANIL 4E is applied, especially after the fourth leaf stage of growth of the rice, under some conditions, visible leaf injury or rice may result. However, the rice plants quickly outgrow such injury when caused by the later applications.

USE IN CALIFORNIA ONLY: Where rice fields are not completely drained.

NOTE: Before using, read entire label.

To control watergrass, apply CRYSTAL PROPANIL 4E 30 to 45 days after planting, before rice is fully tillered, when watergrass extends 6 to 8 inches above water surface. If rice has a deep flood, water level may be lowered to 3-4 inches over highest part of field to expose 6-8 inches of watergrass.

When lowering water level, do so slowly to avoid pulling down rice plants. Use 4 quarts per acre if most grass has developed 3-5 leaves, use 5 quarts if most grass has 5-6 leaves, and use 6 quarts per acre if most grass has 7 or more leaves. Apply in no less than 10-12 gallons of water, using a medium-fine spray.

If higher water level is desired after treating, reflooding may be started 12 hours after treatment.

NOTICE

Use of this material other than in accordance with directions on this label may produce plant injury, excessive residues, or other undesirable results. Crystal Chemical Company makes no express or implied warranties other than specified on this label.