

Product Bulletin



Valent U.S.A. Corporation
P.O. Box 8025
Walnut Creek, CA 94596

FOR DISTRIBUTION AND USE ONLY IN THE STATE OF MISSOURI
BOLERO® 8 EC
FOR CONTROL OF MOST ANNUAL GRASSES, BROADLEAF &
AQUATIC WEEDS IN RICE
EPA Reg. No. 59639-79
EPA SLN No. MO-940005
Rev. 1

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

DIRECTIONS FOR USE

GENERAL INFORMATION

BOLERO 8 EC plus FACET® 50 WP applied in one of the following herbicide programs will control most annual grasses, broadleaf and aquatic weeds in drill - seeded rice.

See specific Directions for Use for:

- Delayed preemergence
- Split applications

GENERAL USE DIRECTIONS

- **DO NOT** apply products through any type of irrigation system.
- For drill seeded rice only.
- Seedbeds should be well prepared and free of large clods.
- Uniformly apply in a minimum of 10 GPA with aerial or ground application equipment.
- **DO NOT APPLY TO STRESSED RICE.**
- **DO NOT** overlap or double treat the ends of rice fields.
- **DO NOT** allow spray containing FACET 50 WP to drift onto areas where tomatoes are to be planted or have been planted or onto emerged tomatoes that were transplanted as severe injury will occur.
- **DO NOT** apply to rice fields used for catfish/crayfish farming. Do not apply on rice fields adjacent to catfish or crayfish ponds.
- **DO NOT** allow spray drift or accidental application from turning aircraft into catfish, crayfish, minnow or shrimp ponds; nor into adjacent crops including cotton, cereal grains, corn, sorghum, soybeans, vegetables, orchards or ornamentals; nor into adjacent areas including gardens or shrubs.
- **DO NOT** apply more than 2 1/2 pts. Of BOLERO* EC per acre when using aerial application equipment east of the Rocky Mountains.

LISTS OF WEEDS CONTROLLED

BY BOLERO 8 EC ALONE

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

BOLERO 8 EC PLUS FACET 50 WP

(In Addition to Weeds Controlled by BOLERO 8 EC Alone - and Extended Residual Control)

COMMON NAME	SCIENTIFIC NAME	SIZE MOST EFFECTIVE CONTROL OCCURS
Barnyardgrass	<i>Echinochloa crus-galli</i>	pre - 2 leaf
Broadleaf Signalgrass	<i>Brachiaria platyphylla</i>	pre - 2 leaf
Eclipta	<i>Eclipta alba</i>	1 - 2 leaf
Large Crabgrass	<i>Digitaria sanguinalis</i>	pre - 2 leaf
Jointvetch Species		
Northern	<i>Aeschynomene virginica</i>	1 - 2 leaf
Indian	<i>Aeschynomene indica</i>	1 - 2 leaf
Junglerice	<i>Echinochloa colonum</i>	pre - 2 leaf
Morningglory species		
Tall (common)	<i>Ipomoea purpurea</i>	pre - 6 leaf
Cypressvine	<i>Ipomoea quamoclit</i>	pre - 6 leaf
Entireleaf	<i>Ipomoea hederacea intergruscula</i>	pre - 6 leaf
Ivyleaf	<i>Ipomoea hederacea</i>	pre - 6 leaf

LISTS OF WEEDS CONTROLLED (cont'd)

BOLERO 8 EC PLUS FACET 50 WP - cont.

COMMON NAME	SCIENTIFIC NAME	SIZE MOST EFFECTIVE CONTROL OCCURS
Morningglory species (continued)		
Palmleaf	<i>Ipomoea wrightii</i>	pre - 6 leaf
Pitted	<i>Ipomoea lacunosa</i>	pre - 6 leaf
Purple Moonflower	<i>Ipomoea muricata</i>	pre - 6 leaf
Smallflower	<i>Jacquemontia tamnifolia</i>	pre - 6 leaf
Sesbania	<i>Sesbania exaltata</i>	pre - 2 leaf

BOLERO 8 EC PLUS PROPANIL

(In Addition to Weeds Controlled by BOLERO Alone)

COMMON NAME	SCIENTIFIC NAME	SIZE MOST EFFECTIVE CONTROL OCCURS
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

DELAYED PREEMERGENCE FOR DRILL - SEEDED RICE

- Apply BOLERO 8 EC + FACET 50 WP as a delayed preemergence application 1 to 5 days before rice emerges (usually 5 to 9 days after seeding) and prior to weed emergence.
- The seedbed should be well prepared and free of large clods.
- Soil surfaces should be sealed by rain or flushing and be moist at application.
- Do not apply to sand or loamy sand soils.
- Do not apply to fields with standing water.
- 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.
- Refer to lists of weeds controlled.

SOIL TEXTURE	BOLERO 8 EC RATE PER ACRE	+ FACET 50 WP RATE PER ACRE
COARSE: Sandy loam only	2 - 3 pts.	0.50 lb.
MEDIUM: Loam, silt loam, silt, sandy clay loam	3 - 4 pts.	0.67 - 0.75 lb.
FINE: Silty clay loam, clay loam, sandy clay, silty clay, clay	3 - 4 pts.	0.75 - 1.0 lb.

SPLIT APPLICATION FOR DRILL-SEEDED RICE
Delayed Preemergence Followed by Postemergence

DELAYED PREEMERGENCE APPLICATION

- Apply BOLERO 8 EC + FACET 50 WP as a delayed preemergence application 1 to 5 days before rice emerges (usually 5 to 9 days after seeding) and prior to weed emergence.
- The seedbed should be well prepared and free of large clods.
- Soil surfaces should be sealed by rain or flushing and be moist at application.
- Do not apply to sand or loamy sand soils.
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- Refer to lists of weeds controlled.

SOIL TEXTURE	BOLERO 8 EC RATE PER ACRE	+	FACET 50 WP RATE PER ACRE
COARSE: Sandy loam only	2 pts.		0.50 lb.
MEDIUM: Loam, silt loam, silt, sandy clay loam	2 pts.		0.67 - 0.75 lb.
FINE: Silty clay loam, clay loam, sandy clay, silty clay, clay	2 pts.		0.75 - 1.0 lb.

FOLLOWED BY:

POSTEMERGENCE APPLICATION

- An early postemergence tank mixture application of BOLERO 8 EC + PROPANIL should be made when emerged grasses are in 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.

BOLERO 8 EC + PROPANIL

SOIL TEXTURE	BOLERO 8 EC RATE PER ACRE	+	PROPANIL RATE PER ACRE
COARSE, MEDIUM, and FINE	2 pts.		2 - 4 lb. ACTIVE

- Application should be made when the soil surface is sealed and moist (non-flooded).
- 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.
- Temporary injury to rice may occur under certain conditions.
- **DO NOT APPLY TO STRESSED RICE.**
- The BOLERO 8 EC + PROPANIL tank mixture will not prevent reinfestation of hemp sesbania, northern or Indian jointvetch, broadleaf signalgrass, or pitted morningglory.
- Refer to lists of weeds controlled. The PROPANIL component in the BOLERO 8 EC tank mixture increases the postemergence activity for control of weeds listed.
- **NOTE:** This application may also be made to dry-, medium-, and fine-textured soils which have previously been sealed by rain or flushing and are not cracked at application. **RICE SHOULD BE IN THE 2- TO 3- LEAF STAGE OF DEVELOPMENT. THE SOIL MUST BE WET BY RAIN OR FLUSHING WITHIN 3 DAYS AFTER APPLICATION OR A REDUCTION IN CONTROL CAN BE EXPECTED.** If flushing (or heavy rainfall) is used to wet the soil, causing rapid water movement through the flood gates, weed control around the gates may be reduced. **DO NOT APPLY TO STRESSED RICE**, as it may be seriously injured or killed.

Mixing Instructions

- **FACET 50 WP + BOLERO 8 EC**
Add FACET to the half-full spray tank of clean water with agitator running. After FACET is thoroughly mixed, add BOLERO 8 EC and mix thoroughly. Then add the remaining volume of water. Maintain constant agitation during application.
- **BOLERO 8 EC + PROPANIL**
Add PROPANIL to the half-full spray tank of clean water with agitator running. After PROPANIL is thoroughly mixed, add BOLERO 8 EC and mix thoroughly. Then add the remaining volume of water. Maintain constant agitation during application.

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. Do not use BOLERO or BOLERO tank mixtures on the rice varieties L-201 and Millie. Follow the most restrictive label directions concerning rotational cropping and crop failure. Do not apply this product to rice fields with catfish/crayfish farming. Do not apply this product on rice fields adjacent to catfish or crayfish ponds. Avoid drift to non-target areas. 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 95 degrees F. Do not apply BOLERO 8 EC alone or in tank mixtures when rain is expected within 24 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, zinc or surfactants with BOLERO 8 EC alone or when tank mixed with PROPANIL or FACET 50 WP for postemergence applications.

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 65 degrees F., or above 95 degrees F.; 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 or deep water after application.

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

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

FIFRA Section 24(c) Registrant: VALENT U.S.A. Corporation
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BOLERO - Reg. TM of Kumiai Chemical Industry Co., Ltd. for Thiobencarb Herbicide.
FACET - Reg. TM of BASF AG