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341-337

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NOV 23 1988

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 341-337



CYANAMID



Net Contents: Bulk

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Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under
EPA Reg. No. 241-337

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PROWL 3.3 EC PLUS BANVEL¹ PLUS BLADEx² HERBICIDE TANK MIXTURE FOR USE IN FIELD CORN

OBSERVE ALL PRECAUTIONARY STATEMENTS IN THE PROWL 3.3 EC, BANVEL, AND BLADEx LEAFLET LABELS BEFORE USING.

SEE THE PROWL 3.3 EC, BANVEL, AND BLADEx LEAFLET LABELS FOR PRECAUTIONS, GENERAL INFORMATION, MIXING AND APPLICATION AND SPRAYING INSTRUCTIONS, USE RATES, USES WITH OTHER PRODUCTS, WEEDS CONTROLLED, AND ROTATIONAL CROP RESTRICTIONS. OBSERVE THE MOST RESTRICTIVE INSTRUCTIONS ON ANY PRODUCT LABEL.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. This label must be in the possession of the user at the time of herbicide application.

DO NOT apply this mixture through any type of irrigation system.

DO NOT APPLY TANK MIX BY AIR. AVOID drift of this mixture to soybeans or other sensitive crops. DO NOT apply on peat or muck soils.

This label expires December 31, 1995.

DO NOT use in California.

GENERAL INSTRUCTIONS

Observe all use directions given in the PROWL 3.3 EC, Banvel, and Bladex labels sections on precautions, general information, mixing and application and spraying instructions, uses with other products, weeds controlled and rotational crop restrictions. Additional instructions are given below. Always follow the most restrictive instructions on any product label.

This label can be used in conventional, minimum tillage, and no-tillage systems. Observe the instructions in the PROWL 3.3 EC leaflet label in the section on Field Corn Grown in Minimum Tillage Systems, or in a PROWL 3.3 EC Supplemental label for no-tillage systems.

¹Registered Trademark of American Cyanamid Company

²Banvel is a trademark of Sandoz Crop Protection Inc.

³Bladex is a trademark of E.I. duPont De Nemours and Company.

Plant corn AT LEAST 1 1/2 INCHES DEEP and provide good soil coverage of the corn seed.

MIXING AND RATES OF APPLICATION

Refer to the PROWL 3.3 EC, Banvel, and Bladex labels for mixing instructions.

DO NOT apply PROWL 3.3 EC plus Banvel plus Bladex under extended cold (below 50 °F) and wet weather conditions, or when cold, wet conditions are predicted or serious crop injury can result.

PREEMERGENCE (soil surface treatment after planting)

Apply PROWL 3.3 EC plus Banvel plus Bladex preemergence, after planting, but before weeds or crop emerge. Apply in water or liquid fertilizer with ground equipment only. Refer to Application with Liquid Fertilizers section (see Table of Contents for page number in the PROWL 3.3 EC leaflet label) for liquid fertilizer compatibility determinations.

DO NOT use on furrow irrigated corn. DO NOT INCORPORATE or serious corn injury can result.

EARLY POSTEMERGENCE

Apply PROWL 3.3 EC plus Banvel plus Bladex 90DF after corn emergence but no later than when corn is in the 4 leaf stage of growth and when weeds are no larger than 1 inch tall. DO NOT use Bladex 4L postemergence on corn. A serious corn injury can result.

Apply in water with ground equipment only. Flat fan nozzles are preferred.

(See other side)

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Annual clover (*Trifolium* spp.)
 Black Nightshade (*Solanum nigrum*)
 Burcucumber (*Sicyos angulatus*)
 Chickweed, common (*Stellaria media*)
 Jimsonweed (*Datura stramonium*)
 Mallow
 common (*Malva* spp.)
 Venice (*Hibiscus trionum*)
 Mustard (*Brassica* spp.)
 Puncturevine (*Tribulus terrestris*)
 Ragweed
 common (*Ambrosia artemisiifolia*)
 giant (*Ambrosia trifida*)

Sunflower, common (*Helianthus annuus*)
 Tansymustard (*Descurainia pinnata*)
 Thistle, Russian (*Salsola kali*)
 Velvetleaf (*Abutilon theophrasti*)
 Wild buckwheat (*Polygonum convolvulus*)
 Wild cucumber (*Echinocystis lobata*)

PROWL 3.3 EC plus Banvel plus Bladex will aid in the control of and reduce competition from the following annual weed species. Consult the Banvel label for perennial weed species suppressed by this tank mixture.

Annual morningglory (*Ipomoea* spp.)
 Shattercane (*Sorghum bicolor*)
 Wild proso millet (*Panicum miliaceum*)

**Broadcast Rate Per Acre of PROWL 3.3 EC Plus
 Banvel Plus Bladex Preemergence* and
 Early Postemergence Tank Mixtures in Field Corn**

Soil Texture	Less than 1.5% Organic Matter* PROWL 3.3 EC + Banvel + Bladex 90DF ¹	1.5% to 3.0% Organic Matter* PROWL 3.3 EC + Banvel + Bladex 90DF ¹	More than 3.0% Organic Matter PROWL 3.3 EC + Banvel + Bladex 90DF ¹
COARSE ^{2,3}	1.8 to 2.4 pts. + 0.5 pt. + 1 lb.	2.4 pts. + 0.5 pt. + 0.67 to 1.11 lbs.	3.6 pts. + 0.5 pt. + 0.67 to 1.3 lbs.
MEDIUM ²	2.4 pts. + 1 pt. + 1 lb.	3.6 pts. + 1 pt. + 1 to 1.5 lbs.	3.6 pts. + 1 pt. + 1.3 to 1.5 lbs.
FINE ²	2.4 pts. + 1 pt. + 1 to 1.5 lbs.	3.6 pts. + 1 pt. + 1.3 to 2.2 lbs.	3.6 pts. + 1 pt. + 1.3 to 2.2 lbs.

¹When using Bladex 4L preemergence, use equivalent rates. See conversion chart in Formulation Conversion Tables section (see Table of Contents for page number in PROWL 3.3 EC leaflet label). Apply only Bladex 90DF in postemergence tank mixtures with Banvel. DO NOT use Bladex 4L postemergence.

²The high rate for each soil texture, where listed, should be used if heavy infestations of grass or broadleaf weeds are anticipated, if hard-to-control weed species are anticipated, or if extensive crop residues were present following seedbed preparation, or if soil organic matter content falls in the high end of the range.

³DO NOT use this tank mixture on sands or loamy sands with less than 1% organic matter.

*DO NOT apply this tank mixture preemergence on any soil with less than 2.0% organic matter.

PRECAUTIONS

Observe all precautions on the PROWL 3.3 EC, Banvel, and Bladex labels, including replanting in the event of crop loss due to weather, harvest and grazing intervals, and rotational crop restrictions. DO NOT tank mix PROWL 3.3 EC with any product not registered in specific states of intended use.

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CYANAMID
 American Cyanamid Company
 Agricultural Products Division
 Crop Protection Chemicals Department
 Wayne, NJ 07470 ©1993

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EPA Reg. No. 241-337

**FOR USE IN DRILLED, DRY-SEEDED RICE
IN ARKANSAS, LOUISIANA, MISSISSIPPI, MISSOURI AND TEXAS**

**PROWL 3.3 EC HERBICIDE ALONE OR
TANK MIXTURE OF PROWL 3.3 EC PLUS GLYPHOSATE¹ OR
PROWL 3.3 EC PLUS FACET² 50 WP HERBICIDES
FOR DELAYED (LATE) PREEMERGENCE WEED CONTROL**

OBSERVE ALL PRECAUTIONARY STATEMENTS IN THE PROWL 3.3 EC, GLYPHOSATE AND FACET 50 WP LEAFLET LABELS BEFORE USING. SEE THE PROWL 3.3 EC, GLYPHOSATE, AND FACET 50 WP LEAFLET LABELS FOR USE DIRECTIONS INCLUDING PRECAUTIONS, RESTRICTIONS AND LIMITATIONS, GENERAL INFORMATION, USE AREA, MIXING AND APPLICATION INSTRUCTIONS, USES WITH OTHER PRODUCTS, WEEDS CONTROLLED AND ROTATIONAL CROPS RESTRICTIONS.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. This label must be in the possession of the user at the time of herbicide application.

This label expires February 28, 1995.

GENERAL INFORMATION

PROWL 3.3 EC may be applied in GRAIN-DRILLED, DRY-SEEDED RICE as follows:

Delayed (Late) Preemergence
PROWL 3.3 EC alone
PROWL 3.3 EC + glyphosate
PROWL 3.3 EC + Facet 50 WP

PROWL 3.3 EC herbicide alone, or a tank mixture of PROWL 3.3 EC plus glyphosate herbicides, or a tank mixture of PROWL 3.3 EC plus Facet 50 WP herbicides may be applied for delayed (late) preemergence weed control in grain-drilled, dry-seeded rice.

*Registered Trademark of American Cyanamid Company

¹Glyphosate is an active ingredient of various herbicides sold under various brand names, such as Roundup or Roundup D-Pak. Roundup is a registered trademark of Monsanto Company.

²Facet is a registered trademark of BASF Corporation.

³Arrosolo is a registered trademark of Zeneca.

⁴Bolero is a registered trademark of Valent USA Corporation.

⁵Londax is a registered trademark of E. I. DuPont De Nemours & Co.

The tank mixtures will provide broad spectrum grass and certain broadleaf weed control. Tank mixtures are especially effective where sprangletop (*Leptochloa spp.*) is a problem. PROWL 3.3 EC alone will not control broadleaf weeds; a postemergence application of propanil, Arrosolo³, Bolero⁴, Facet 50 WP or Londax⁵ herbicide may be necessary for season-long weed control.

Glyphosate or Facet 50 WP will control the emerged grasses and broadleaves listed on their label. PROWL 3.3 EC will provide residual control of labeled grass weeds which can germinate after the tank-mixture is applied and which Facet 50 WP does not control. PROWL 3.3 EC will not control emerged weeds. Facet 50 WP does not control sprangletop. Therefore schedule spraying before sprangletop has emerged.

For maximum weed control and rice stand, it is important to carefully follow the directions below for (1) adequate spray coverage of soil and (2) proper timing of application.

Observe all use directions given in the PROWL 3.3 EC, glyphosate and Facet 50 WP labels. Additional instructions are given below. Always follow the most restrictive instructions on all products' labels.

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OF PROWL 3.3 EC ALONE, OR PROWL 3.3 EC PLUS GLYPHOSATE TANK MIX, OR PROWL 3.3 EC PLUS FACET 50 WP TANK MIX TO RICE CROPS.

REFER TO THE PROWL 3.3 EC, GLYPHOSATE AND FACET 50 WP LEAFLET LABEL FOR ADDITIONAL DISCLAIMER STATEMENTS.

MIXING INSTRUCTIONS

PROWL 3.3 EC alone. Refer to Mixing Instructions in the PROWL 3.3 EC leaflet label.

PROWL 3.3 EC plus glyphosate tank mix. Refer to Mixing Instructions in the PROWL 3.3 EC leaflet label and to Mixing, Additives and Application Instructions in the glyphosate label. ADDITION OF NONIONIC SURFACTANT MAY BE REQUIRED WITH GLYPHOSATE APPLICATION (see product label) and use of ammonium sulfate may increase performance.

PROWL 3.3 EC plus Facet 50 WP tank mix. Refer to the PROWL 3.3 EC and Facet 50 WP labels for sections on mixing and spraying. DO NOT use liquid fertilizer solution. Add Facet 50 WP to a half-full spray tank of clean water with agitation running. After the Facet 50 WP is thoroughly mixed, add PROWL 3.3 EC. Mix thoroughly and then add the remaining volume of water. Constantly agitate during application.

SPRAYING INSTRUCTIONS

Spray drift can cause injury to sensitive crops. See the glyphosate and Facet 50 WP labels for list of sensitive crops; follow all recommendations to minimize drift.

AERIAL APPLICATIONS

For aerial applications, apply the recommended rate in 5 to 10 gallons of water per acre to ensure adequate coverage. See the glyphosate and Facet 50 WP label for aerial application instructions; follow all recommendations to minimize drift. DO NOT apply during periods of gusty winds or when wind conditions favor drifting. It is recommended that a flagman or an automatic mechanical flagging unit on the aircraft be used to avoid overlapping and possible crop injury.

GROUND APPLICATIONS

For ground equipment, apply the recommended rate in 10 to 20 gallons of water per acre to ensure adequate coverage. Use a properly calibrated low-pressure (20 to 40 psi) sprayer

50 mesh. DO NOT apply PROWL 3.3 EC during periods of gusty winds.

DELAYED (LATE) PREEMERGENCE APPLICATIONS

PROWL 3.3 EC alone or in labeled tank mixture may be applied delayed (late) preemergence after planting rice as follows:

1. Treatments may be applied to conventional, reduced or minimum tillage, and no-till (stale seed-bed) rice. The seedbed should be firm and free of clods, and must be prepared to allow for good seed coverage. Plant rice with a grain drill at a depth that provides complete soil coverage of the rice seed. The use of a planter under conditions which do not allow good soil coverage of the rice seed can result in reduced stand or stunting if PROWL 3.3 EC contacts germinating rice seed.
2. Apply PROWL 3.3 EC alone or in tank mixture to levees after the levees are pulled and planted. Exposed seeds that come in contact with PROWL 3.3 EC or Facet 50 WP may be injured.
3. Uniformly apply the recommended PROWL 3.3 EC plus glyphosate after rice planting (as described below) and before rice emergence (spiking), by aircraft or ground equipment according to spraying instructions above. THE GROWER SHOULD INSPECT FIELDS FREQUENTLY TO CHECK GROWTH OF RICE TO DETERMINE PROPER APPLICATION TIMING.

Uniformly apply the recommended rate of PROWL 3.3 EC alone or PROWL 3.3 EC plus Facet 50 WP after rice planting (as described below) and before rice and weed emergence (spiking), by aircraft or ground equipment according to spraying instructions above. THE GROWER SHOULD INSPECT FIELDS FREQUENTLY TO CHECK GROWTH OF RICE AND WEEDS TO DETERMINE PROPER APPLICATION TIMING.

4. Apply ONLY when growing conditions favor vigorous rice growth. The seedbed should have adequate moisture for seed germination. If there is insufficient moisture, flushing is recommended before PROWL 3.3 EC application to supply moisture for root (radicle) initiation and for vigorous rice and weed growth.

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DO NOT apply PROWL 3.3 EC and then flush for germination. DO NOT apply to stressed rice. Stress factors include cold or hot temperature extremes, excessive moisture or drought, problem soils, poor field drainage or deep water after application. DO NOT apply early preemergence nor preplant incorporated as severe rice injury is possible.

5. Apply when soil surface is dry, moist, or wet without standing water. Since soil and weeds (only for glyphosate) must be completely exposed to spray coverage, no flood water should be on the field at time of application. Cloddy soil, standing water (puddles) at the time of application, or cracks in the soil that form after application may result in reduced weed control.

6. Apply after the rice seed has absorbed water and germinated and after the soil has been previously sealed over the seed by at least 1 inch rainfall or by irrigation (flush). If the soil has not been sealed by rain or flush, apply when 80 percent of germinated seeds have a primary root (radical) or shoot at least 1/2 inch long.

If applied to soil prior to these conditions, or to cracked soil, then stand reduction or stunting of rice may occur; Facet 50 WP may cause buggywhipping. Under some conditions, use of gibberellic acid-treated seed, **HEAVY RAINFALL AFTER APPLICATION**, or **FLUSHING AFTER APPLICATION** may result in herbicide injury to rice. Rice can overcome moderate injury with appropriate cultural practices.

7. For maximum direct contact activity of glyphosate, delay application of the tank mix if there is a chance of rain within 6 or 8 hours.

8. Because the residual activity of PROWL 3.3 EC alone or the PROWL 3.3 EC plus Facet 50 WP tank mix allows for delayed flooding, this treatment may be applied if rice is too small to maintain a flood on the field for weed control. However, proper water management practices must be followed for normal rice growth and activity of PROWL 3.3 EC and Facet 50 WP. Refer to the Water Management section of the Facet 50 WP label. Flooding should not be delayed if weeds begin to develop after application.

Since the residual activity of PROWL 3.3 EC and Facet 50 WP is activated by moisture, PROWL 3.3 EC alone is most effective in controlling emerging weeds when adequate rainfall or irrigation (flush) is received within 7 days after application. The PROWL 3.3 EC plus Facet 50 WP tank mix is most effective in controlling emerging weeds when adequate rainfall or irrigation (flush) is received within 3-7 days after application or when new grass/weeds have emerged and are less than one inch tall.

WEEDS CONTROLLED

The following grass species in addition to those listed on the PROWL 3.3 EC label are controlled by the residual activity of PROWL 3.3 EC, either as PROWL 3.3 EC alone or in the PROWL 3.3 EC plus glyphosate tank mix at the rates recommended for each soil texture listed below.

PROWL 3.3 EC gives preemergence control of propanil-resistant Barnyardgrass.

Barnyardgrass (watergrass)	(<i>Echinochloa crus-galli</i>)
Junglerice	(<i>Echinochloa colonum</i>)
Crabgrass	(<i>Digitaria</i> spp.)
Signalgrass	(<i>Brachiaria platyphylla</i>)
Sprangletop	(<i>Leptochloa</i> spp.)

Additional weeds controlled by the residual activity of PROWL 3.3 EC plus Facet 50 WP tank mixture are:

Morningglory spp.	(<i>Ipomoea</i> spp.)
Sesbania	(<i>Sesbania exaltata</i>)

See the glyphosate label for weeds controlled postemergence at the application rate used.

RATES OF APPLICATION

PROWL 3.3 EC alone. Apply PROWL 3.3 EC alone at the rates recommended for each soil texture listed below.

PROWL 3.3 EC plus glyphosate tank mix. Apply PROWL 3.3 EC at the rates recommended for each soil texture listed below. Refer to the glyphosate label for the glyphosate application rates and instructions.

PROWL 3.3 EC plus Facet 50 WP tank mix. Apply PROWL 3.3 EC plus Facet 50 WP tank mixture at the rates recommended for each soil texture listed below.

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**Broadcast Rate Per Acre of PROWL 3.3 EC Alone or
PROWL 3.3 EC Plus Glyphosate or
PROWL 3.3 EC Plus Facet 50 WP Tank Mixture
Applied Delayed Preemergence in Drilled, Dry-Seeded Rice**

Soil Texture	PROWL 3.3 EC (pints)	+	Facet 50 WP (lb)
sands, loamy sands	DO NOT USE		
sandy loams	1.8	+	0.50-0.67 (0.67-0.9 bag)
loams, silt loams, silts, sandy clay loams	1.8 to 2.4	+	0.67-0.75 (0.9-1.0 bag)
silty clay loams, clay loams, sandy clays, silty clays, clays	1.8 to 2.4	+	0.75-1.0 (1.0-1.33 bag)

NOTE: Use the higher rate of PROWL 3.3 EC or Facet 50 WP if heavy weed populations are anticipated.

**PRECAUTIONS, RESTRICTIONS
AND LIMITATIONS**

PROWL 3.3 EC is toxic to fish and aquatic organisms. Fish may be killed at application rates recommended on the label. DO NOT contaminate water by cleaning of equipment or disposal of wastes.

DO NOT apply PROWL 3.3 EC to rice fields if fields are used for Fish Production, especially fields in which crayfish or catfish farming are included in the cultural practices.

See the PROWL 3.3 EC and tank-mix partner labels for additional precautions, restrictions and limitations. Observe all precautions, restrictions and limitations on the PROWL 3.3 EC and tank-mix partner labels, including weed stage and height limitations, replanting in the event of crop loss, harvest and grazing intervals, and rotational crop restrictions. Always follow the most restrictive instructions on all products' labels.

See PROWL 3.3 EC leaflet label for herbicide-resistant weed management recommendations.

DO NOT MECHANICALLY INCORPORATE PROWL 3.3 EC in rice.

DO NOT tank mix PROWL 3.3 EC with any product not registered in specific states of intended use. DO NOT use in California.

DO NOT apply PROWL 3.3 EC alone or in tank mixture through any type of irrigation system.

DO NOT use this treatment in water-seeded rice.

DO NOT allow drift or accidental application of tank mixture from ground equipment or turning aircraft near cotton, soybeans, corn, vegetables, orchards, gardens, shrubs, and ornamentals. Refer to PROWL 3.3 EC and tank-mix partner labels for other sensitive crops.

PROWL 3.3 EC is not recommended for use on peat or muck soils.

DO NOT apply tank mixture in liquid fertilizer.

DO NOT make more than one application of PROWL 3.3 EC per season.

DO NOT bale or use rice straw from treated fields for feed or bedding.

DO NOT use water containing PROWL 3.3 EC residues from rice cultivation to irrigate food or feed crops which are not registered for use with PROWL 3.3 EC. DO NOT use water from rice cultivation after Facet 50 WP application to irrigate any crops.

DO NOT plant crops in PROWL 3.3 EC treated fields unless PROWL 3.3 EC is registered for use on these crops. Refer to the tank-mix partner label for crop planting restrictions.



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In case of crop failure due to weather conditions or disease following treatment with PROWL 3.3 EC alone or in tank mixture, only drilled dry-seeded rice may be immediately replanted; however, the grower assumes all risks and consequences associated with replanting of rice because there is the potential for stand reduction or stunting. A 10 percent increase in seeding rate is recommended. Replant seed below the herbicide layer because reduced stand or stunting may occur if PROWL 3.3 EC contacts germinating rice seed. **DO NOT** replant with gibberellic acid-treated seed. **DO NOT** reapply a PROWL 3.3 EC alone or in tank mixture.

FOLLOW CROP RESTRICTIONS. Land treated with PROWL 3.3 EC may be planted to other crops the following year. Refer to PROWL 3.3 EC and tank-mix partner labels for follow crop restrictions.

Use of PROWL 3.3 EC herbicide in accordance with label directions is expected to result in normal growth of rotational crops in most situations; however, various environmental and agronomic factors make it impossible to eliminate all risks associated with the use of this product and therefore, rotational crop injury is always possible.

For additional information regarding the use of PROWL 3.3 EC herbicide, call telephone number (800) 942-0500.

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