



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs
Registration Division (7505P)
Ariel Rios Building
1200 Pennsylvania Ave., NW
Washington, D.C. 20460

EPA Reg. Number:

5905-495

Date of Issuance:

APR 28 2008

NOTICE OF PESTICIDE:

- Registration
[x] Reregistration
(under FIFRA, as amended)

Term of Issuance: Conditional

Name of Pesticide Product:

Prowl Herbicide + Propanil

Name and Address of Registrant (include ZIP Code):

Helena Chemical Co.
225 Schilling Blvd., Suite 300
Collierville, TN 38017

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

Based on your response to the Reregistration Eligibility Document, EPA has reregistered the product listed above, under the authority of section 4(g)(2)(c) of the Federal Insecticide, Fungicide, and Rodenticide Act, provided that you make the following labeling changes:

1. Under "Personal Protective Equipment";

Replace the PPE requirements with the following:

Handler PPE Requirements for Liquid Concentrate Formulations Packaged without Built-in Probes:

Personal Protective Equipment (PPE)

Some materials that are chemical-resistant to this product are [registrant inserts correct material]. For more information, follow instructions in Supplement Three of PR Notice 93-7. If you want more options, follow the instructions for category [insert A, B, C, D, E, F, G or H] on an EPA chemical-resistance category selection chart.

- Mixers, loaders, applicators, and other handlers must wear the following, except when removing an unrinsed probe:
- Long-sleeve shirt.
- Long pants.
- Shoes plus socks.
- Chemical-resistant gloves and chemical-resistant apron when mixing/loading, cleaning up spills or equipment, or otherwise exposed to the concentrate.
- In addition handlers must wear chemical-resistant footwear when cleaning up spills or equipment

Signature of Approving Official:

Jim Tompkins
Product Manager
Registration Division (7505P)

Date:

4-28-08

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- Mixers, loaders, and other handlers must wear the following when removing an unrinsed probe:
 - Coveralls over long-sleeved shirt and long pants.
 - Chemical-resistant gloves.
 - Chemical resistant footwear plus socks.
 - Protective eyewear, if the system operates under pressure, and
 - Chemical-resistant apron.

See engineering controls for additional requirements.”

Handler PPE Requirements for All Other Liquid Concentrate Formulations Packaged with Built-in Probes:

Personal Protective Equipment (PPE)

Some materials that are chemical-resistant to this product are [registrant inserts correct material]. For more information, follow instructions in Supplement Three of PR Notice 93-7. If you want more options, follow the instructions for category [insert A, B, C, D, E, F, G or H] on an EPA chemical-resistance category selection chart.e

Mixers, loaders, applicators, and other handlers must wear the following:

- Long-sleeve shirt.
- Long pants.
- Shoes and socks.
- Chemical-resistant gloves and chemical-resistant apron when mixing/loading, cleaning up spills or equipment, or otherwise exposed to the concentrate.

See engineering controls for additional requirements.”

2. Under “Engineering Controls”;

- Add “For Closed Mixing and Loading System for Liquid Formulations Packaged with a Built-in probe” before “Mixers and loaders must either.”
- Add “For Closed Mixing and Loading System for Liquid Formulations Packaged without Built-in probes:
 - “Mixers and loaders must use a closed system that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4)] for dermal protection, and must:
 - Wear the personal protective equipment required in the PPE section of this labeling for mixers and loaders,
 - Wear protective eyewear, if the system operates under pressure, and
 - Chemical-resistant footwear must be provided and be immediately available for use in an emergency, such as a broken package, spill, or equipment breakdown.”
- Change “All Transfer Systems” to “Personal Protective Equipment for All Transfer Systems.”
- Delete “3” under “All systems must be 3.”
- Change the alignment of the Flaggers paragraph.

3. Under “User Safety Recommendations”;

Change “Remove clothing immediately” to “Remove clothing/PPE immediately.”

4. Under "User Safety Requirements";

Change "Do not reuse them" to "Do not reuse them."

5. Under "Spray Drift Management"

- Change "ASAE standard 527" to "ASAE standard 572."
- Change "Do not apply by air . . . er" to "Do not apply by air . . . are."
- Move the section on Spray Drift Reduction Advisory Information from pages 4 and 5 to this section.

6. Under "Agricultural Use Requirements";

Change "Chemical-resistant gloves, such as or made" to "Chemical-resistant gloves made."

7. Under "Emergency Release Provisions";

- Replace the second bullet point with the following:

For delayed flood (water-seeded) rice grown south of Interstate highway-10 from the Texas/Louisiana border to Houston and east of State Highway 35 from Houston to Port Lavaca - Flood water must be held for 10 days after application, unless excessive rainfall completely submerges the rice crop and forces premature release. For Texas rice grown in areas north or west of these boundaries, the water holding interval will be 7 days.

- Add the following requirements:

- For delayed flood (water-seeded) rice in Southern Louisiana south of Highway 14 - Flood water must be held for 15 days after propanil application unless excessive rainfall completely submerges the rice crop and forces premature release. Delayed flood (water-seeded) rice in Louisiana, north of the Highway 14 boundary, is subject to the 7-day water holding interval provisions.
- For rice in California and all other parts of the US not mentioned above - Flood water must be held for 7 days after application, unless excessive rainfall completely submerges the rice crop and forces premature release.
- For delayed flood (water-seeded) rice grown south of Interstate highway-10 from the Texas/Louisiana border to Houston and east of State Highway 35 from Houston to Port Lavaca - Flood water must be held for 10 days after application, unless excessive rainfall completely submerges the rice crop and forces premature release. For Texas rice grown in areas north or west of these boundaries, the water holding interval will be 7 days.

- Delete all footnotes above the Agricultural Uses Requirements box..

8. Under "Environmental Hazards";

Replace the first paragraph text with the following:

"This pesticide is toxic to fish and aquatic invertebrates. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water intended for irrigation or domestic purposes. Do not apply when weather conditions favor drift from target areas. Except as provided for in the Directions for Use, do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate."

4 8 10

9. Under "Storage and Disposal";

Change "Storage" to "Pesticide Storage," and add "Keep containers closed when not in use."

9. Under "Notes and Restrictions";

- Add "DO NOT make more than one application per season."
- Remove the conflict between "Do not apply more than 16 pints of product (6.0 lbs of active ingredient per season. Do not apply more than 21.3 pints of product (8.0 lbs of Active ingredient per season" and "Do not make more than one application per season."
- Change "Water drained from the treated rice fields must not be used to irrigate other crops or released with one half mile upstream of a potable water intake in flowing water (e.g., river, stream, etc.) or within one half mile of a potable water intake in a standing body of water, such as a lake, pond or reservoir" to "Water drained from the treated rice fields must not be used to irrigate other crops or released with two miles upstream of a potable water intake in flowing water (e.g., river, stream, etc.) or within two miles of a potable water intake in a standing body of water, such as a lake, pond or reservoir."
- Change the catfish statement to the following:
"Applications to fields where catfish farming is practiced and drain water from treated fields **into areas** where catfish farming is practiced is prohibited **during 12 months following treatment.**"
- Add "Do not apply when weather conditions favor drift from area to be treated" at the end of the first paragraph.

10. Under "Early Postemergence Applications";

Change "Uniformly apply recommended treatment. . . instructions above" to "Uniformly apply specified treatment . . . instructions above."

11. Under "Broadcast rate per acre of Prowl + Propanil";

Fix the alignment of headings on the table.

12. Under "Conditions of Sale - Limited Warranty and Limitations of Liabilities and Remedies";

Add "To the extent allowed by law" before "The company makes no other warranties . . . shall be implies by law."

13. Change "Prowl is a registered trademark of American Cyanamid Company" to the correct trademark holder.

Reregistration under this section does not eliminate the need for continual reassessment of pesticides. EPA may require submission of data at any time to maintain the registration of your product.

A stamped copy of your labeling is enclosed for your records.

Enclosure

SPECIMEN LABEL

Prowl® Herbicide + Propanil
FOR DRY-SEEDED RICE

ACTIVE INGREDIENT:

Propanil: 3', 4'-dichloropropionanilide 33.70%
Pendimethalin: N-(1-Ethylpropyl)-3,4-dimethyl-2, 6-Dinitrobenzenamine..... 11.25%

INERT INGREDIENTS:..... 55.05%

TOTAL100.00%

This product contains the toxic inert ingredient monochlorobenzene.
This product contains 3 pounds propanil and 1 pound pendimethalin.

KEEP OUT OF REACH OF CHILDREN
WARNING - AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING

Causes substantial but temporary eye injury. Harmful if swallowed, absorbed through skin or inhaled. Do not get in eyes. Avoid contact with skin or clothing. Avoid breathing spray mist.

a) FIRST AID

IF IN EYES:	<ul style="list-style-type: none"> Hold eyelid open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor immediately for treatment advice.
IF ON SKIN OR CLOTHING:	<ul style="list-style-type: none"> Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor immediately for treatment advice.
IF SWALLOWED:	<ul style="list-style-type: none"> Call a poison control center or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control center or doctor. Have a person sip a glass of water if able to swallow. Do not give anything to an unconscious or convulsing person.
IF INHALED	<ul style="list-style-type: none"> Move person to fresh air. If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor or going for treatment. In case of emergency, call ChemTrec at 1-800-424-9300.

Disclaimer: Always refer to the label on the product before using Helena or any other product.

NOTE TO PHYSICIAN: This product contains monochlorobenzene.

SEE INSIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

EPA REG. NO.: 5905-495
EPA EST. NO.:

NET CONTENTS:

MANUFACTURED FOR
HELENA CHEMICAL COMPANY
225 SCHILLING BOULEVARD, SUITE 300
COLLIERVILLE TENNESSEE 38017

PERSONAL PROTECTIVE EQUIPMENT
Applicators and other handlers must wear:

Some materials that are chemical resistant to this product are made of barrier-laminated, butyl, Nitrile or neoprene or Viton. If you want more options, follow the instructions for category F on an EPA chemical-resistant category selection chart.

Mixers, loaders, applicators and all other handlers must wear:

- Long-sleeved shirt and long pants,
- Socks and shoes,
- Goggles or face shield, and
- Chemical resistant gloves and chemical resistant apron when mixing/loading, cleaning up spills or equipment, or otherwise exposed to the concentrate

"See engineering controls for additional requirements"

USER SAFETY REQUIREMENTS

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

Engineering Control Statement:

Mixers and Loaders must either:

- (1) use a closed system that meets the requirements listed in the Worker Protection Standard (WPS) for dermal protection of agricultural pesticides [40 CFR 170.240 (d)(4)]

OR:

- (2) use the probe system described below:

PROBE SYSTEM

Specific requirements for use of the probe closed mixing/loading system:

- > Remove plug from bung of drum containing this product only when drum is sitting on the ground or on a secure level platform, with the bung end of the drum pointed up
- > Transfer product from the drum to the mixing tank by use of a suction hose connected at one end to the suction

SPECIMEN LABEL

pump on the mixing tank and connected at the other end to a probe (dip tube) that is inserted through the bung opening into the drum.

- Do not handle the pobe or bung in a manner that allows dripping or splattering of the product onto yourself or any other person.
- Do not touch the portion of the probe that has been in contact with this product until after the probe has been triple rinsed with water
- If all of the product is removed from the drum, then triple rinse the probe while it remains inside the drum.

Un-rinsed Probes

- If an un-rinsed probe must be removed from the drum, then use an anti-drip flange, and immediately transfer the probe into a container of rinse water. The anit-drip flange must be designed to remove excess Propanil fro mthe probe as it is extracted from the drum.
- Take the following steps if the probe must be disconnected from the suction hose before both the probe and the hose have been triple rinsed:
 1. equip the probe end of the hose with a shut off valve
 2. install a dry break coupling between the valve and the probe
 3. close the shut-off valve before disconnecting the probe.

ALL TRANSFER SYSTEMS;

- In addition, mixers and loaders using all systems must:
 1. wear the personal protective equipment required in the PPE section of this labeling for mixers and loaders.
 2. wear protective eyewear, if the system operates under pressure, and
 3. when using a system that meets the requirments in the WPA as a closed system or using a probe system when the probe is not removed, chemical-resistant footwear must be provided, be immediately available, and used in an emergency, such as a broken package, spill, or equipment breakdown.

All systems must be3 capable of removing the pesticide from the shipping container and transferring it into mixing tanks and/or application equipment. At any disconnect point, the system must be equipped with a dry disconnect or dry couple shut-off device that is warranted by the manufacturer to minimize drippage.

FLAGGERS:

Human flagging is prohibited. Flagging to support aerial application is limited to use of the Global Positioning System (GPS) or mechanical flaggers.

Enclose Cabs for Aerial Applications

Pilots must use an enclosed cockpit that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)],

USER SAFETY RECOMMENDATIONS

User should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Plant Back Restriction: Do not plant or transplant crops in the treated area for at least 60 days following an application of this product.

General Precautions and Restrictions:

SPRAY DRIFT MANAGEMENT:

Avoiding spray drift at the application site is the responsibility of the applicator and the grower. The interactions of many equipment and weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

Apply only when wind speed is less than or equal to 10 mph at the application site.

Apply as a medium or coarser spray (ASAE standard 527)

Additional requirements for Ground Applications:

Apply using a nozzle height of no more than 4 feet above the ground or crop canopy.

Additional requirements for aerial applications:

- Do not apply by air if drift can occur to sensitive nontargeted crops or plants that qer witin 100 feet of the application site
- Do not release spray at a height greater than 10 feet above the ground or crop canopy
- The boom length must not exceed 75% of the wingspan or 90% of the rotor blade diameter
- Do not make any type of application into temperature inversions.
- When applications are made with a cross-wind, the swath will be displaced downwind. The applicator must compensate for this displacement at the downward edge of the application area by adjusting the path of the aircraft upwind.

EMERGENCY RELEASE PROVISIONS:

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- Water holding (discharge) intervals for flood water following Propanil application in all states.
- For delayed flood (water seeded) rice in California and all other parts of the US not mentioned above- Flood held for 7 days after application, unless excessive rainfall completely submerges the rice crop and forces release.

- 1 PPE that is established on the basis of Acute Toxicity of the end-use product must be compared to the active ingredient PPE in this document. The more protective PPE must be placed in the product labeling. For guidance on which PPE is considered more protective, see PR Notice 93-7.
- 2 This statement was derived from existing label language and initial comments from the Propanil Task Force II and grower groups.
- 3 This statement was created with the help from the Propanil Task Force II and grower groups.

This product may contaminate water through runoff following rainfall events and by seepage through levees. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours. Levees should be constructed with adequate time prior to chemical application so that they are compacted to reduce seepage and to hold 3-6 inch flood.

PHYSICAL OR CHEMICAL HAZARDS

COMBUSTIBLE: Do not use, pour, spill or store near heat or open flame.

AGRICULTURAL USE REQUIREMENTS
 Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.

Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Coveralls
- Chemical resistant gloves, such as or made of any waterproof material.
- Shoes plus socks
- Protective eyewear (goggles, face shield or safety glasses)

STORAGE AND DISPOSAL

DO NOT CONTAMINATE WATER, FOOD, OR FEED BY STORAGE OR DISPOSAL.

STORAGE

Do not use, pour, spill or store near heat or open flame. Store in a dry location away from children, animals, foods, feeds, seeds, or other agricultural chemicals. If entire contents are not used, protect remaining material from moisture and heat. Resealing by rolling top down and storage under roof are recommended. In the event of spillage, scrape up material and dispose of in accordance with **DISPOSAL**. Repackage and relabel usable product in a sound container. In case of fire or other emergency, report at once by toll-free telephone to 800-424-9300.

DISPOSAL

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA regional office for guidance.

CONTAINER DISPOSAL: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic invertebrates. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, or public waters unless in accordance with the requirements of a National Pollutant Discharge Eliminations Systems (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the Environmental Protection Agency.

This chemical has properties and characteristics associated with chemicals detected in ground water. The use of this chemical prior to flooding may result in some shallow ground water contamination due to cracks in subsoil of the rice paddy.

Disclaimer: Always refer to the label on the product before using Helena or any other product.

GENERAL INFORMATION

PROWL® HERBICIDE + PROPANIL is a postemergence treatment which combines the direct contact action of propanil and the residual activity of pendimethalin (PROWL). Since the residual activity of pendimethalin provides pre-emergence control for certain annual grasses which can germinate after this pre-mix treatment is applied, flooding after application can be delayed.

RICE APPLICATIONS:

General Weed Control: For maximum weed control with this treatment, it is important to carefully follow the directions below for (1) adequate spray coverage of weeds and soil and (2) proper timing of application, when barnyard grass (watergrass) is in the 1 to 3 leaf stage of growth with an occasional 4 leaf plant (make application when sprangletop is less than 1/2 inch in height).

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Do not use in California. DO NOT use this treatment in water seeded rice.

are made improperly, or under unfavorable environmental conditions (see Wind, Temperature and Humidity, and Temperature Inversions).

SURFACE WATER ADVISORY

This product may contaminate water through runoff following rainfall events and by seepage through levees. This product has a high potential for runoff. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours. Levees should be constructed with adequate time prior to chemical application so that they are compacted to reduce seepage and to hold a 3-6 inch flood (2001 Mississippi Rice Growers Guide). Other guidance is located at <http://agronomy.ucdavis.edu/ucce/ice/water/seep.htm> and from the document "Closed Rice Water Management Systems" from the National Resource Conservation Service of USDA. The University of Arkansas Rice Production Book (<http://www.uaex.edu/other-areas/publications/html>) also provides information concerning levee production.

GROUNDWATER ADVISORY

This chemical has properties and characteristics associated with chemicals detected in ground water. The use of this chemical prior to flooding may result in some shallow ground water contamination due to cracks in the subsoil of the rice paddy.

SPRAYING INSTRUCTIONS: FOR ADDITIONAL SPRAY DRIFT MITIGATION INFORMATION PLEASE SEE SPRAY DRIFT MANAGEMENT UNDER GENERAL USE PRECAUTIONS AND RESTRICTIONS SECTION :

AERIAL APPLICATION

For aerial application, apply the recommended rate in 10 to 12 gallons of water per acre to insure adequate coverage. Avoid drift or accidental application from turning aircraft on cotton, soybeans, corn, safflower, seedling legumes, vegetables, orchards, vineyards, gardens, shrubs, and ornamentals. To minimize drift, DO NOT apply during periods of gusty winds or winds in excess of 10 mph. Uniform spray distribution may not be achieved when wind velocity is greater than 10 mph. It is recommended that a flagman or an automatic mechanical flagging unit on the aircraft be used to avoid overlapping and possible crop injury.

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment-and-weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

SPRAY DRIFT REDUCTION ADVISORY INFORMATION

The applicator should be familiar with and take into account the information covered in the Aerial Drift Reduction Advisory Information. This section is advisory in nature and does not supersede the mandatory label requirements.

INFORMATION ON DROPLET SIZE

The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications

CONTROLLING DROPLET SIZE

- Volume - Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- Pressure - Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
- Number of nozzles - Use the minimum number of nozzles that provide uniform coverage.
- Nozzle Orientation - Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is the recommended practice. Significant deflection from horizontal will reduce droplet size and increase drift potential.
- Nozzle Type - Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift.

BOOM LENGTH

For some use patterns, reducing the effective boom length to less than 3/4 of the wingspan or rotor length may further reduce drift without reducing swath width.

APPLICATION HEIGHT

Applications should not be made at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

SWATH ADJUSTMENT

When applications are made with a crosswind, the swath will be displaced downwind. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase, with increasing drift potential (higher wind, smaller drops, etc.)

WIND

Drift potential is lowest between wind speeds of 2-10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application should be avoided below 2 mph due to variable wind direction and high inversion potential. NOTE: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

TEMPERATURE AND HUMIDITY

When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

SPECIMEN LABEL

TEMPERATURE INVERSIONS

Applications should not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

SENSITIVE AREAS

The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g. when wind is blowing away from the sensitive areas).

GROUND APPLICATIONS

For ground equipment, apply the recommended rate in 15 to 25 gallons of water per acre to ensure adequate coverage. Use a properly calibrated low-pressure (20 to 40 psi) sprayer equipped with 8002 or larger size Tee-Jet or comparable nozzles to achieve uniform spray distribution and minimize foaming. Nozzle screens must be no finer than 50 mesh. DO NOT apply during periods of gusty winds or when wind velocity is greater than 10 mph.

EARLY POSTEMERGENCE APPLICATIONS

The seedbed should be firm and free of clods and trash. The seedbed must be prepared to allow for good seed coverage. Previous crop residues should be thoroughly mixed into the soil to a depth of 4 to 6 inches by plowing or disking before planting rice.

Uniformly apply recommended treatment by aircraft or ground equipment after rice emergence, according to spraying instructions above, when barnyardgrass is in the 1 to 3 leaf growth stage with an occasional 4 leaf plant (make application when sprangletop is less than 1/2 inch). **THE GROWER SHOULD INSPECT FIELDS FREQUENTLY TO CHECK GROWTH OF BARNYARDGRASS AND/OR SPRANGLETOP TO DETERMINE PROPER APPLICATION TIMING.** Timing of applications should be based on the growth stage of barnyardgrass and/or sprangletop and not on the growth stage of rice. If rice is too small to maintain a flood on the field, the treatment can still be applied since flooding can be delayed because of the residual activity of pendimethalin.

While the residual activity of pendimethalin allows flooding to be delayed, proper water management practices must be followed for normal rice growth. Flooding should not be delayed if weeds begin to develop after application.

Since soil and weeds must be completely exposed to spray coverage, no flood water should be on field at time of application. If necessary, fields may be flushed prior to treatment to produce vigorous rice and weed growth.

Disclaimer: Always refer to the label on the product before using Helena or any other product.

Since the residual activity of pendimethalin is activated by moisture, pendimethalin is most effective in controlling emerging weeds when adequate rainfall or irrigation (flush) is received within 7 days after application.

For maximum direct contact activity delay application if there is a chance of rain within 6 to 8 hours.

WEED SPECIES CONTROLLED

PROWL® HERBICIDE + PROPANIL provides direct contact control of the weeds listed below:

- Barnyardgrass (*Brachiaris* spp.)
- Crabgrass, large (*Digitaria sanguinalis*)
- Croton, woolly (*Croton capitatus*)
- Foxtail (*Setaria* spp.)
- Goosegrass (*Eleusine indica*)
- Gulf Cockspur (*Echinochloa crus-gallis*)
- Hoorahgrass (*Fimbristylis miliaceae*)
- Mexican weed (*Cyperus palustris*)
- Paragrass (*Panicum purpurascens*)
- Pigweed, redroot (*Amaranthus retroflexus*)
- Redweed (*Melochia corchorifolia*)
- Sour Dock (*Rumex crispus*)
- Spearhead (*Rhynchospora corniculata*)
- Tall Indigo or Coffee Bean (*Sesbania exalta*)
- Texas Millet (*Panicum texanum*)
- Wiregrass (*Eleocharis* spp.)

The following grass species are controlled by the residual activity of **PROWL® HERBICIDE + PROPANIL** at the rates recommended for each soil texture listed below:

- Barnyardgrass (watergrass) (*Echinochloa crus-galli* or *Echinochloa colonum*)
- Crabgrass (*Digitaria* spp.)
- Signalgrass (*Brachiaria platyphylla*)
- Sprangletop (*Leptochloa* spp.)

BROADCAST RATE PER ACRE OF PROWL® HERBICIDE + PROPANIL

Soil Texture	PROWL® HERBICIDE + PROPANIL
COARSE	
sandy loams	3 qts.
MEDIUM	
sandy clay loams, *sandy clays, loams, silts, silt loams	4 qts.
FINE	
silty clay loams, *clay loams, silty clays, clays	4 qts.

1) The addition of 0.75 lbs. of Propanil is necessary to obtain maximum contact kill.

*Sometimes considered transitional soils and may be classified as either medium or fine textured soils.

NOTES AND RESITRICTIONS:

10 8 10

SPECIMEN LABEL

Do not apply more than 6 lbs Propanil active ingredient per acre per application. Do not apply more than 8 lbs Propanil active ingredient per acre per season.

Application to where catfish farming is practiced and draining water from fields into areas where catfish farming is practiced is prohibited.

Water drained from treated rice fields must not be used to irrigate other crops or released within 1/2 mile upstream of a potable water intake in flowing water (i.e., river, stream, etc.) or within 1/2 mile of a potable water intake in a standing body of water such as a lake, pond or reservoir.

Do not apply to fields where commercial crayfish farming is practiced and do not drain water from treated fields into area where crayfish farming is practiced.

DO NOT apply this mixture within 14 days before or after insecticide applications because serious damage to rice may occur.

DO NOT apply in liquid fertilizer.

DO NOT make more than one application per season.

DO NOT bale or use rice straw for feed or bedding.

DO NOT discharge water from treated areas for a period of 30-days after treatment.

DO NOT rotate crops other than rice for 30-days following application.

DO NOT harvest rice grown within 60-days following treatment.

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1. Refund of the purchase price paid by buyer or user for product bought, or
2. Replacement of the product used

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ACCEPTED
with COMMENTS
in EPA Letter Dated

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

5905-495

APR 28 2008