

PROPAMOCARB
HYDROCHLORIDE

GROUP

28

FUNGICIDE

PROPLANT™ TURF AND ORNAMENTAL

FUNGICIDE

For Control of Pythium and Phytophthora

ACTIVE INGREDIENT:	% BY WT.
Propamocarb hydrochloride*	66.8%
OTHER INGREDIENTS	33.2%
TOTAL	100.0%

*Propyl (3-dimethylamino) propylcarbamate hydrochloride.
Contains 6.0 lbs active ingredient per gallon.

EPA Reg. No. 70506-612

KEEP OUT OF REACH OF CHILDREN CAUTION / PRECAUCIÓN

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.)

See panel for First Aid Instructions and Booklet for complete Precautionary Statements and Directions for Use.

FIRST AID	
IF SWALLOWED:	<ul style="list-style-type: none">• Call a poison control center or doctor immediately for treatment advice.• Have person sip a glass of water if able to swallow.• Do not induce vomiting unless told to do so by a poison control center or doctor.• Do not give anything by mouth to an unconscious person.
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 for treatment advice.
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. FOR 24-HOUR MEDICAL EMERGENCY ASSISTANCE CALL ROCKY MOUNTAIN POISON AND DRUG SAFETY: 1-866-673-6671. FOR 24-HOUR CHEMICAL EMERGENCY (Spill, leaks, fire, exposure or accident) CALL CHEMTREC: 1-800-424-9300 or +1-703-527-3887.	

For Product Use Information Call: 1-800-438-6071

Net Contents: _____ Gallons

**TURF &
ORNAMENTAL**

Manufactured by: UPL NA Inc. • 630 Freedom Business Center, Suite 402
King of Prussia, PA 19406 U.S.A. • 1-800-438-6071



PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed or absorbed through the skin. Avoid contact with skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants;
- Chemical-resistant gloves made of any waterproof material;
- Shoes plus socks;
- A chemical-resistant apron, if dipping cuttings.

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.

ENGINEERING CONTROLS STATEMENT

When handlers use closed systems, closed cabs or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

Pilots must use an enclosed cab that meets the definition listed in the Worker Protection Standard for agricultural pesticides [40 CFR 170.305].

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and change into 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.

ENVIRONMENTAL HAZARDS

For terrestrial uses: Do not apply directly to water, or 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 washwater or rinsate.

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 in your State responsible for pesticide regulation.

SPRAY DRIFT ADVISORIES

THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT. BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.

IMPORTANCE OF DROPLET SIZE

An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.

Controlling Droplet Size - Ground Boom

- Volume - Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.
- Pressure - Use the lowest spray pressure recommended for the nozzle to produce the target spray volume and droplet size.
- Spray Nozzle - Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.

Controlling Droplet Size - Aircraft

- Adjust Nozzles - Follow nozzle manufacturers' recommendations for setting up nozzles. Generally, to reduce fine droplets, nozzles should be oriented parallel with the airflow in flight.

BOOM HEIGHT - Ground Boom

For ground equipment, the boom should remain level with the crop and have minimal bounce.

RELEASE HEIGHT - Aircraft

Higher release heights increase the potential for spray drift.

SHIELDED SPRAYERS

Shielding the boom or individual nozzles can reduce spray drift. Consider using shielded sprayers. Verify that the shields are not interfering with the uniform deposition of the spray on the target area.

TEMPERATURE AND HUMIDITY

When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.

TEMPERATURE INVERSIONS

Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. The presence of an inversion can be indicated by ground fog or 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. Avoid applications during temperature inversions.

WIND

Drift potential generally increases with wind speed. AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS.

Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.

Boomless Ground Applications:

- Setting nozzles at the lowest effective height will help to reduce the potential for spray drift.

Handheld Technology Applications:

- Take precautions to minimize spray drift.

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 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 12 hours.**

PPE required for early entry into 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 made of any waterproof material;
- Shoes plus socks.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are not within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, and greenhouses.

Do not enter or allow others to enter treated areas until spray deposit has dried completely.

USE RESTRICTIONS

Do not graze or feed clippings from treated areas to livestock. Do not apply this product through any type of irrigation system.

PRODUCT INFORMATION

PROPLANT™ Turf And Ornamental Fungicide is a completely water miscible fungicide concentrate. PROPLANT Turf And Ornamental Fungicide is intended for use on turfgrass, which is subject to Pythium Blight (Cottony Blight, Grease Spot). It may be used after germination to control Pythium damping-off in turf, or on established turf to prevent or control Pythium Blight. PROPLANT Turf And Ornamental Fungicide does not afford broad-spectrum disease control for *Rhizoctonia* spp. (Brown Patch), *Sclerotinia* spp. (Dollarspot), or *Helminthosporium* spp. (Leafspot). Use a broad-spectrum fungicide if these diseases coexist with Pythium Blight.

PROPLANT Turf And Ornamental Fungicide is also labeled for prevention of root rot and damping-off caused by *Pythium* spp. and *Phytophthora* spp. at all stages of ornamental propagation.

COMPATIBILITY: PROPLANT Turf And Ornamental Fungicide is compatible with, iprodione, triadimefon, chlorothalonil, chlorpyrifos and thiram. For control of other soil-borne diseases such as *Rhizoctonia* spp. or *Fusarium* spp., PROPLANT Turf And Ornamental Fungicide can be tank-mixed with thiophanate-methyl. Use the full rate of each fungicide and follow all directions and restrictions appearing on the labels of these products. Follow most restrictive label requirements. Do not tank-mix with any product that contains a prohibition on tank-mixing.

For resistance management, PROPLANT Turf And Ornamental Fungicide contains a Group 28 fungicide. Any fungal population may contain individuals naturally resistant to PROPLANT Turf And Ornamental Fungicide and other Group 28 fungicides. A gradual or total loss of pest control may occur over time if these fungicides are used repeatedly in the same fields. Appropriate resistance-management strategies should be followed.

It is known that certain plant pathogens develop resistance to products with the same mode of action when used repeatedly for disease control. PROPLANT Turf And Ornamental Fungicide is recommended as part of an Integrated Pest Management (IPM) program to attempt to minimize disease resistance to fungicides. These include rotating and/or tank-mixing with products having different modes of action, limiting the total number of applications per year, using disease-resistant crop varieties, cultural practices, pest scouting, and disease forecasting systems, which reduce unnecessary applications of pesticides. For good resistance management practices, follow the specific use directions on the label and review State Cooperative Extension Service recommendations for effective disease resistance management programs in your area.

CROP USE DIRECTIONS

CROP	APPLICATION RATE PROPLANT TURF AND ORNAMENTAL FUNGICIDE	COMMENTS
TURFGRASS: For control of Pythium Blight and Pythium Damping-Off, and Root Rot on Established Turf and Over-seeded Areas.	Preventive Treatment: 1.3 - 2.0 fl oz per 1,000 sq ft in 2 to 5 gallons of water	ESTABLISHED TURF: Apply as a preventive treatment during periods of high humidity favorable to the development of Pythium Blight.
	Curative Treatment: 3 - 4 fl oz per 1,000 sq ft in 2 to 5 gallons of water	OVER-SEEDED AREAS: Apply after germination to control Pythium Damping-Off. RETREATMENT: Retreat at 7- to 21-day intervals if conditions remain favorable for disease development. Use the lower rate for the shorter interval and the higher rate for the longer interval within the application rate range. Under severe disease pressure conditions, use the highest labeled rate and shortest interval.
RESTRICTIONS: <ul style="list-style-type: none"> • Aerial application is prohibited, restrict applications to ground spray. • Only for use on golf courses and sod farms. • DO NOT USE ON SOD FARMS IN ARIZONA. • Do not apply more than a total of 12 fl oz (0.57 lb ai) of PROPLANT Turf And Ornamental Fungicide per 1,000 sq ft per year. • Do not apply more than 533 fl oz of PROPLANT Turf And Ornamental Fungicide per acre per year for all applications curative and preventive combined. • Do not apply more than 25 lbs ai/acre/year for all applications curative and preventive combined. 		

CROP	APPLICATION RATE PROPLANT TURF AND ORNAMENTAL FUNGICIDE	COMMENTS
ORNAMENTALS: For control of Pythium and Phytophthora on ornamental plants: African Violet, Ageratum, Alyssum, Aster, Azalea, Browallia, Carnation, Celosia, Chrysanthemum, Coleus, Dahlia, Dusty Miller, Easter Lily, Ferns, Geranium, Gloxinia, Impatiens, Lobelia, Marigold, Pansy, Petunia, Poinsettia, Portulaca, Salvia, Snapdragon, Verbena, Violet and Vinca.	3 fl oz per 10 gallons of water	PROPLANT Turf And Ornamental Fungicide is labeled for prevention of root rot and damping-off at all stages of ornamental propagation. PROPLANT Turf And Ornamental Fungicide requires no agitation after initial mixing. Use PROPLANT Turf And Ornamental Fungicide within one week of mixing. PROPLANT Turf And Ornamental Fungicide does not cause phytotoxic symptoms on the listed plants when used as directed. Trials on other ornamental species should be conducted before extensive use. SEEDING: Apply to the seeding area using 3 quarts of solution per 10 sq ft. Treat before sowing of seeds requiring light and after covering of seeds requiring dark for germination. Do not apply more than two applications per container per year. If a second application is needed, the minimum retreatment interval is 7 days. TRANSPLANTING SEEDLINGS: Apply to the transplanting area using 3 quarts of solution per 10 sq ft before transplanting. Do not apply more than two applications per container per year. If a second application is needed, retreat at a minimum of 7 days to 6 months depending on the plant species and cultural practice.
	2 fl oz per 10 gallons of water	TRANSPLANTING CUTTINGS: Drench cutting bed using 2 gallons of solution per 10 sq ft before setting. Do not apply more than two applications per container per year. If two applications are being made, do not exceed 31.5 fl oz of PROPLANT Turf And Ornamental Fungicide per 1,000 sq ft per application. If a second application is needed, retreat at a minimum of 7 days to 6 months depending on the plant species and cultural practice. POTTING: Dip bare root plants in the solution before potting. After potting, drench each pot at the rate of 3.5 fl oz of solution per 4-inch pot. Do not exceed 31.5 fl oz of PROPLANT Turf And Ornamental Fungicide per 1,000 sq ft per application, and do not apply more than two applications per container per year. If a second application is needed, retreat at a minimum of 7 days to 6 months depending on the plant species and cultural practice.
RESTRICTIONS: <ul style="list-style-type: none"> • Only for use on commercially grown ornamentals in greenhouses and grown ornamentals in nurseries. • Drench applications must be limited to soil directed sprays. • Do not apply more than 31.5 fl oz of formulated product (1.48 lb ai) per 1000 square feet per application. • Foliar applications to ornamentals grown for cut flowers are prohibited. 		

CROP	APPLICATION RATE PROPLANT TURF AND ORNAMENTAL FUNGICIDE	COMMENTS
WOODY ORNAMENTALS: For control of <i>Phytophthora</i> spp. on woody ornamentals.	2.5 fl oz per 10 gallons of water	Drench each container at the rate of 5 quarts of solution per 10 sq ft of surface. Do not apply more than two applications per container per year. If two applications are being made, do not exceed 31.5 fl oz of PROPLANT Turf And Ornamental Fungicide per 1,000 sq ft per application. If a second application is needed, retreat at a minimum of 7 days to 6 months depending on the plant species and cultural practice.

STORAGE AND DISPOSAL

DO NOT contaminate water, food or feed by storage and disposal.

PESTICIDE STORAGE: Store in original container and keep tightly closed. Store in a cool, dry, secure place.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER HANDLING: Nonrefillable Container. Do not reuse or refill this container. Offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke. Clean container promptly after emptying.

Nonrefillable container equal to or less than 5 gallons: Triple rinse as follows: Empty the remaining contents into application equipment or a mix-tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix-tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Warranty and Disclaimer Statement

The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Such risks may arise from weather conditions, soil factors, off-target movement, unconventional farming techniques, the presence of other materials, the manner of use or application, or other unknown factors, all of which are beyond the control of UPL NA Inc. and can cause crop injury, injury to non-target crops or plants, ineffectiveness of the product, or other unintended consequences. All such risks shall be assumed by the user or buyer.

UPL NA Inc. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks described above, when used in accordance with the Directions for Use under normal conditions. This warranty does not extend to the use of this product contrary to label instructions or under conditions not reasonably foreseeable to UPL NA Inc. and is subject to the inherent risks described above.

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