

Coastal™

IMAZAQUIN	GROUP 2	HERBICIDE
PRODIAMINE	GROUP 3	HERBICIDE
SIMAZINE	GROUP 5	HERBICIDE

Selective herbicide for use on established turf of Bermudagrass, Centipedegrass, St. Augustinegrass, and Zoysiagrass.

Application sites include:

- Established Turfgrasses: Golf Courses (Excluding Golf Course Putting Greens), Athletic fields, Commercial and Residential Turf, and Sod Farms/Nurseries

Active Ingredient:

Prodiamine.....	17.68%
Imazaquin.....	7.62%
Simazine.....	27.20%

Other Ingredients:..... 47.50%

Total:..... 100.0%

Coastal contains 1.68 pounds prodiamine active ingredient per gallon, 0.73 pounds imazaquin active ingredient per gallon and 2.59 pounds simazine active ingredient per gallon.

KEEP OUT OF REACH OF CHILDREN CAUTION

FIRST AID

If in eyes	<ul style="list-style-type: none">Hold eye 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 eye.Call a poison control center or doctor for treatment advice.
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.	
Emergency phone numbers	(800) 222-1222 Poison Control Center (human health) (800) 424-9300 CHEMTREC (transportation and spills)

NET CONTENTS: 2.5 Gallons (9.46 L)

Manufactured for:

Amvac Chemical Corporation
4695 Macarthur Court, Suite 1200
Newport Beach, CA 92660

2.5G

SHAKE WELL BEFORE USING

See additional Precautionary Statements and Directions For Use inside the booklet.

EPA Reg. No. 5481-629

EPA Est. No. 60063-GA-1 Lot number begins with VL

EPA Est. No. 62171-MS-1 Lot number begins with OI

Exclusively Distributed by:



2525 Meridian Parkway
Durham, NC 27713

9502420-000 EPA 20190614 (6/19)
Patent Pending

**Read the entire
label carefully
before using
this product.**

PULL BACK LABEL HERE ▲

HERBICIDE

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Causes moderate eye irritation. Avoid contact with eyes or on clothing. Wear appropriate protective eyewear such as goggles, face shield, or safety glasses. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

PERSONAL PROTECTIVE EQUIPMENT

Applicators, mixers, loaders, and other handlers who handle this pesticide for any use covered by the Worker Protection Standard (40 CFR Part 170) must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves
- Shoes plus socks
- Protective eyewear such as goggles, face shield, or safety glasses

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 CONTROL STATEMENTS

When handlers use closed systems or enclosed cabs 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.

IMPORTANT: When reduced PPE is worn because a closed system is being used, handlers must be provided with all of the PPE specified above for applicators and other handlers, and have such PPE immediately available for use in an emergency, such as a spill or equipment breakdown.

User Safety Recommendations

Users 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.
- After handling this product immediately remove PPE, wash yourself thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to aquatic invertebrates. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Runoff and drift from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment wash water.

Imazaquin demonstrates the properties and characteristics associated with chemicals detected in ground water. The use of this in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

Simazine can travel (seep or leach) through soil and enter ground water which may be used as drinking water. Simazine has been found in ground water as a result of its use as a herbicide. Users are advised not to apply Simazine to sand and loamy soils where the water table (ground water) is close to the surface and where the soils are very permeable, i.e., well-drained. Your local extension agencies can provide further information on the type of soil in your area and the location of ground water.

Products must not be mixed or loaded within 50 feet of intermittent streams and rivers, natural or impounded lakes and reservoirs. Product must not be applied within 66 feet of points where field surface water runoff enters perennial or intermittent streams and rivers or within 200 feet of natural or impounded lakes and reservoirs. If this product is applied to highly erodible land, the 66 foot buffer or setback from runoff entry points must be planted to crop, or seeded with grass or other suitable crop.

Product must not be mixed or loaded, or used within 50 feet of all wells, including abandoned wells, drainage wells and sink holes. Operations that involve mixing, loading, rinsing or washing of this product into or from pesticide handling or application equipment or containers within 50 feet of any well are prohibited, unless conducted on an impervious pad constructed to withstand the weight of the heaviest load that may be positioned on or moved across the pad. Such a pad shall be designed and maintained to contain any product spills or equipment leaks, container or equipment rinse or wash water and rain water that may fall on the pad. Surface water shall not be allowed to either flow over, or from, the pad which means the pad must be self contained. The pad shall be sloped to facilitate material removal. An unroofed pad shall be of sufficient capacity to contain, at a minimum, 110% of the capacity of the largest pesticide container or application equipment on the pad. A pad that is covered by a roof of sufficient size to completely exclude precipitation from contact with the pad shall have a minimum containment of 100% of the capacity of the largest pesticide container or application equipment on the pad. Containment capacities as described above shall be maintained at all times. The above-specified minimum containment capacities do not apply to vehicles when delivering pesticide to the mixing/loading sites.

Additional state imposed requirements regarding well-head setbacks and operational area containment must be observed.

PHYSICAL AND CHEMICAL HAZARDS

Do not mix or allow contact with oxidizing agents. Hazardous chemical reactions may occur.

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.

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 12 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
- Shoes plus socks

NON-AGRICULTURAL USE REQUIREMENTS

The requirements of 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 "WPSP" applies when this product is used to produce agricultural plants on farms, forest or nurseries.

Thoroughly wash face and hands with soap and water after exposure and before eating or smoking. Launder exposed clothing before reuse. Do not allow reentry to treated areas until sprays have dried.

PRODUCT INFORMATION

Coastal is for use on warm season turf. This product contains 3 differing modes-of-action herbicides to provide the broadest weed control spectrum of grasses and broadleaves available in a single product. Coastal has both preemergence and early-postemergence activity. The maximum use rate should provide about 4 months of pre-emergence control under normal environmental conditions; control of some weeds may be longer.

For best results, applications should be applied prior to target weed emergence (except wild onion / garlic and sedges) followed by 0.25 to 0.5 inch of rain or irrigation within 1 - 2 weeks.

Application sites include

- Established Turfgrasses: Golf Courses (Excluding Golf Course Putting Greens), Athletic fields, Commercial and Residential Turf, and Sod Farms/Nurseries

USE RESTRICTIONS

- The use of this product on sites with a known history of dinitroaniline-resistant or triazine-resistant weeds is not recommended.
- Do not tankmix atrazine or additional simazine herbicide with this product.
- Do not cut (harvest) treated sod before 90 days after application.
- Do not graze or use clippings for animal feed.
- Do not apply just prior to or during spring transition or during periods of very slow turf growth or severe discoloration could occur (see "Application Timing" section).
- Do not use on dicandia or winter overseeded turfgrasses such as ryegrass, fescue, bentgrass or poa trivialis when those species are desirable.
- Do not reseed or winter overseed for 4 months after treatment.
- Do not apply more than 2 applications per year or 113 ounces of product total per acre per year.
- Do not apply within drip line of Mesquite trees.
- Do not apply to golf course putting greens.
- Do not apply with wind conditions at or above 15 mph.
- Do not apply by air, chemigation or through any type of Ultra Low Volume (ULV) spray system (<5 gallons per A).
- Do not blend this product onto dry fertilizer or any other granular material.

USE PRECAUTIONS

- To avoid turfgrass injury, do not apply to newly planted, sprigged or set sod until the sod has rooted and exposed edges have filled in.
- Application made during high humidity and temperatures (above 85 degrees) may occasionally exhibit temporary phytotoxicity/yellowing; but normally is fully recovered within 3 weeks.

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

SPRAY PREPARATION

Begin application with a clean water spray tank (remove scale, pesticide residues, and other foreign matter, and flush the system with clean water).

MIXING INSTRUCTIONS:

1. Fill the tank with ½ or ¾ the desired amount of water.
2. Start mechanical or hydraulic agitation.
3. Add dry formulation pesticides (if tankmixing)
4. Slowly add the specified amount of this product.
5. Add emulsifiable concentrate tankmix products last.
6. Add the remaining volume of water.
7. Add adjuvants if desiring post-emergence weed control. For non-ionic surfactants add 0.25% v/v or crop oil concentrates at 1% v/v.

Mix recommended rate of this product with water and apply in a spray volume of 10 to 40 gpa.

Maintain continuous agitation to keep the material in suspension. For best results, use spray mixture the same day it is prepared.

COMPATIBILITY

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

To determine the physical compatibility of this product with other products, the following procedure should be followed: Pour the specified proportions of the products into a suitable container of water, mix thoroughly and allow to stand for at least five (5) minutes. If the combination remains uniformly mixed or can be re-mixed readily, the mixture is considered physically compatible.

RESISTANCE MANAGEMENT

For resistance management, please note that this product contains a Group 2 (imazaquin), a Group 3 (prodiamine), and a Group 5 (simazine) herbicide. Any weed population may contain plants naturally resistant to Group 2, Group 3 and/or Group 5 herbicides. The resistant individuals may dominate the weed population if these herbicides are used repeatedly in the same fields. Appropriate resistance-management strategies should be followed.

To delay herbicide resistance, take one or more of the following steps:

- Rotate the use of this product or other Group 2, 3, or 5 herbicides within a growing season sequence or among growing seasons with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group if such use is permitted; where information on resistance in target weed species is available, use the less resistance-prone partner at a rate that will control the target weed(s) equally as well as the more resistance-prone partner. Consult your local extension service or certified crop advisor if you are unsure as to which active ingredient is currently less prone to resistance.
- Adopt an integrated weed-management program for herbicide use that includes scouting and uses historical information related to herbicide use and crop rotation, and that considers tillage (or other mechanical control methods), cultural (e.g., higher crop seeding rates; precision fertilizer application method and timing to favor the crop and not the weeds), biological (weed-competitive crops or varieties) and other management practices.
- Scout after herbicide application to monitor weed populations for early signs of resistance development. Indicators of possible herbicide resistance include: (1) failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds; (2) a spreading patch of non-controlled plants of a particular weed species; (3) surviving plants mixed with controlled individuals of the same species. If resistance is suspected, prevent weed seed production in the affected area by an alternative herbicide from a different group or by a mechanical method such as hoeing or tillage. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields, and planting clean seed.
- If a weed pest population continues to progress after treatment with this product, discontinue use of this product, and switch to another management strategy or herbicide with a different mode of action, if available.
- Contact your local extension specialist or certified crop advisors for additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes.
- For further information or to report suspected resistance, contact your local Sipcam Agro company representative.

AVOIDING SPRAY DRIFT AT THE APPLICATION SITE IS THE RESPONSIBILITY OF THE APPLICATOR

APPLICATION INSTRUCTIONS

Application Timing:

Apply this product anytime from Sept 15 thru May 31 with the exception of just prior to and during spring transition. Do not apply if spring transition is imminent or expected within 3-4 weeks unless delayed green up and/or temporary yellowing can be tolerated.

Use Rates:

The use rates of this product range from 48 oz per acre up to the maximum rate of 64 oz per acre per application with a maximum of 113 fl.oz. per acre per year. Length of control duration, size and spectrum of weeds controlled post-emergence increase with the higher use rates. The use of a spray adjuvant is required to obtain post-emergence weed control (see Mixing Instructions). Mix the recommended rate of this product with water and apply in a spray volume of 10 to 40 gallons per acre.

For Fall and Winter applications – 64 fl.oz. per acre is recommended.

For Spring applications – 48 fl.oz. per acre is recommended if spring transition is expected within a month. Higher labelled rates may be used if spring transition is at least 4-6 weeks away or has already occurred. Do not exceed the maximum of 113 fl.oz. per acre per year. Do not apply if spring transition is imminent or expected within 3-4 weeks as delayed greenup and temporary yellowing may occur. **Do not use after May 31st.**

Apply this product in a minimum of 10 gals./A (0.5 gal./1,000 sq. ft.) of carrier (water and/or fluid fertilizer) using a calibrated, low-pressure sprayer with 50-mesh or coarser screens. A broadcast boom or handheld wand designed for herbicide or insecticide application will provide the best results. Select nozzle pressure and gallonage to provide complete coverage.

WEEDS CONTROLLED

Pre-Emergence Weed Activity List

allysum amaranths annual bluegrass annual morningglory annual ryegrass barnyardgrass (watergrass) black medic <i>Brachiaria</i> spp. burclover buttercup carelessnessweed carolina geranium carpetweed common chickweed crabgrass (large, smooth) crowfootgrass cutleaf evening primrose dollarweed dovetail downey brome (cheat) eclipta fall panicum fiddleneck field sandbur filaree fireweed	fivehook bassia flora's paintbrush florida pusley foxtails goosegrass groundsel hairy bittercress henbit johnsongrass (seedling) junglerice knawel (German moss) knotweed Kochia lambsquarters lawn burweed lovegrass mouseear chickweed mustard nightshade panicum (texas, fall, browntop) parsley-piert perennial rye grass pepperweed pineappleweed pigweed prickly lettuce	purple deadnettle purslane ragweed rattail fescue redmaids red sorrel rescuegrass (Suppression only) russian thistle shepherspurse shieldscress signalgrass (<i>Brachiaria</i> spp.) silver hairgrass smartgrass spanish needles speedwell sprangletop spurge, prostrate tansymustard white clover wild oats wild mustard wiregrass witchgrass woolly cupgrass yellow flower pepperweed yellow woodsorrel
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Note: The use of Coastal on sites with a known history of dinitroaniline- or triazine-resistant weeds is not recommended.

Post-Emergence Weed Activity List: (For best results, use the maximum rate allowed and make applications with daytime temperatures at 60 degrees Fahrenheit or higher).

Weeds Controlled		
annual bluegrass dollarweed corn speedwell hairy bittercress	henbit knawl purple deadnettle	white clover wild garlic wild onions
Suppression (may provide control on newly emerged weeds at maximum rate):		
annual sedge (suppression only) bahiagrass (suppression only) buttercup carpetweed chickweed cudweed (suppression only) cutleaf evening primrose	dandelion (suppression only) globe sedge lawn burweed parsley - piert pennywort purple nutsedge red sorrel	rice flatsedge tall fescue violets (suppression only) yellow nutsedge green kyllinga Field Sandbur (suppression only)

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

Storage

Keep container tightly closed when not in use. Do not store near seeds, fertilizers, or foodstuffs. Keep away from heat and flame.

Pesticide Disposal

Open dumping is prohibited. Waste resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Rinse spray equipment. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of as described above, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

Container Handling [less than or equal to 5 gallons]

Non-refillable container. Do not reuse or refill this container. Offer for recycling if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. 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 and disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling, if available, or puncture and dispose of in a sanitary landfill, or by incineration.

Container Handling [more than 5 gallons]

Non-refillable container. Do not reuse or refill this container. Offer for recycling if available. Triple rinse container or pressure rinse (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or a mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Offer for recycling, if available, or puncture and dispose of in a sanitary landfill, or by incineration.

Container Handling [greater than 5 gallons]

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the person refilling. To clean container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

DO NOT USE CONTAINERS FOR THE STORAGE OF FOOD, FEED, OR DRINKING WATER!

WARRANTY AND LIMITATION OF DAMAGES

CONDITIONS OF SALE: To the extent consistent with applicable law, Amvac Chemical Corporation warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in accordance with the directions under normal conditions of use. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal use conditions, or under conditions not reasonably foreseeable to Amvac Chemical Corporation. AMVAC CHEMICAL CORPORATION DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF FITNESS OR MERCHANTABILITY. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, AMVAC CHEMICAL CORPORATION SHALL NOT BE LIABLE FOR CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, AND AMVAC CHEMICAL CORPORATION'S SOLE LIABILITY AND USER'S EXCLUSIVE REMEDY SHALL BE LIMITED TO THE REFUND OF THE PURCHASE PRICE. BUYER AND USER ACKNOWLEDGE AND ASSUME ALL RISKS AND LIABILITY RESULTING FROM HANDLING, STORAGE AND USE OF THIS PRODUCT. AMVAC CHEMICAL CORPORATION DOES NOT AUTHORIZE ANY AGENT OR REPRESENTATIVE TO MAKE ANY OTHER WARRANTY, GUARANTEE OR REPRESENTATION CONCERNING THIS PRODUCT.

NOTES

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