

69361-31

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U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs
Registration Division (7505P)
1200 Pennsylvania Ave., N.W.
Washington, D.C. 20460

EPA Reg. Number:

69361-31

Date of Issuance:

JAN 12 2011

NOTICE OF PESTICIDE:

Registration
 Reregistration
(under FIFRA, as amended)

Term of Issuance:

Unconditional

Name of Pesticide Product:

PENDIM 3.3 EC HERBICIDE

Name and Address of Registrant (include ZIP Code):

Mr. N. Bhushan Mandava, Agent for Repar Corporation
Repar Corporation
P.O. Box 4321
Silver Spring, MD 20914

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.

Your draft submitted label cannot be accepted as submitted. However, your requested product can be unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you:

1. Submit and/or cite all data required for registration of your product under FIFRA sec 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for registration review of your product under FIFRA section 3(g).
2. Submit the required one year storage stability and corrosion characteristics studies (Guidelines 830.6317 and 830.6320) by 1/31/2013. The observation intervals are 0, 1, 3, 6, 9, and 12 months.
3. Make the following changes to the label:
 - a. Add the product registration number "EPA Reg. No. 69361-31, and the complete EPA Establishment Number to your product label before shipment".
 - b. Add the batch number to all products in disposable containers before shipment.
 - c. On page 1, replace the phase "FOR USE IN SELECTED CROPS" with the paragraph of listed crops at the top of page 2. Remove the listed crops on page 2. In the listed crops, correct "seweet" to "sweet", and remove "forage legumes", because there is no established tolerance for the "Forage of Legume Vegetables Group 7". Correct the typos,

to "sorghum", and "lentils".

- d. On page 2, in the "FIRST AID" Box, change the second bullet for "If swallowed" to "Have person sip a glass of water if able to swallow". Under "(PPE)", correct the typos to "≥14 mils", and "vitron". Also add a "PHYSICAL AND CHEMICAL HAZARD" statement with the warning "Do not use or store near heat or open flame."
- e. On page 5 and wherever else they appear on the label, correct the erroneously hyphenated words. Also change "Pendim 3.3 EC" or "Pindi 3.3 EC" to "PENDIM 3.3 EC HERBICIDE" throughout label. Check for and correct typos throughout label (e.g. Califration on page 7, CONTOLLIGN on page 9, etc.).
- f. On page 7, under "Chemigation Calculation (it says Califration), add "radius in inches" in the formula in number 1.
- g. On page 8, at the top of page, add "(desired application rate)" after "R". Change "S = should be injected into the system" to "S = is injected into the system". Under "Use instructions and Precautions for Flooded Basin Irrigation", item number "5", change the beginning of the first sentence to "Mix PENDIM 3.3 EC HERBICIDE with water at a 1:1 ratio..."
- h. On page 8, under "CROP ROTATION RESTRICTIONS", correct this entire section. It was not reproduced correctly from the cited label.
- i. On page 13, change "Grain" to "Hay" in the "ALFALFA" box.
- j. On page 14, in the "Citrus Fruit Crop Grouping" box, correct crop typo to "Satsuma mandarin".
- k. On page 15, remove "such as" from the first sentence under "BRASSICA HEAD AND STEM VEGETABLES". In the same crop section, under "Restrictions and Limitations", on the right column, change the second bullet to read "DO NOT apply within 60 days before broccoli, Chinese Broccoli, Brussels Sprouts, Cauliflower, Cavalo Broccolo and Kohlrabi harvest. DO NOT apply within 70 days of cabbage, Chinese Cabbage (napa) and Chinese Mustard Cabbage".
- l. On page 16, under "CARROTS GROWN FOR SEED PRODUCTION", repair paragraphs by remove unnecessary spaces within sentences. Do the same throughout label.
- m. On page 19, remove the entire section labeled "FORAGE LEGUMES". There are no established tolerances for "Forage of Legume Vegetables Group 7".
- n. On page 27, under soybean "Restrictions and Limitations", change the 4th bullet to "DO NOT apply within 85 days before harvest." Under strawberry and sugarcane "Restrictions and Limitations", change the wording of the PHI to "DO NOT apply within X days before harvest."
- o. On page 29, under the wheat "Restrictions and Limitations", change the 4th and 5th bullet to "DO NOT apply PENDIM 3.3 EC HERBICIDE within 60 days before harvest of wheat grain or straw.", and "DO NOT apply PENDIM 3.3 EC HERBICIDE within 28 days before harvest of wheat hay." Change the 6th bullet to "DO NOT apply PENDIM 3.3 HERBICIDE within 11 days before harvesting or allowing livestock to graze wheat forage.

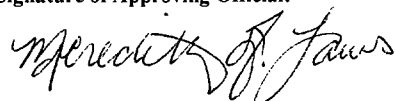
- 4. Submit one copy of the revised final printed label for the record before the product is released for shipment.
- 5. A stamped Accepted Label With Comments is enclosed for your files.

If these changes to your draft label are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product

constitutes acceptance of these conditions.

Please contact Phil Errico at 703-305-6663/ errico.philip@epa.com for any assistance in this matter.

Signature of Approving Official:



Meredith Laws, Acting Herbicide Branch Chief
Herbicide Branch, Registration Division (7505P)

Date:

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PENDIM 3.3 EC HERBICIDE

FOR USE IN SELECTED CROPS

Active Ingredient:

PENDIMethalin: N-(1-ethylpropyl)-3,4-dimethyl 2,6-dinitrobenzamine 37.4%

Other Ingredients*: 62.6%

Total:..... 100.00%

(One gallon contains 3.3 pounds of PENDIMethalin)

*Contains aromatic naphtha

EPA Reg. No. 69361

EPA Est. No.

**ACCEPTED
with COMMENTS
In EPA Letter Dated**

JAN 12 2011

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

69361-31

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 inside for complete **First Aid, Precautionary Statements, Directions For Use, Conditions of Sale and Warranty**, and statespecific crop and/or use site restrictions.

For chemical emergency: spill, leak, fire, exposure, or accident, call CHEMTREC 1- 800-424-9300

Manufactured for:
Repar Corporation
P.O. Box 4321
Silver Spring, MD, 20914

Net Contents:

PENDIM 3.3 EC HERBICIDE

FOR USE IN ALFALFA, BEARING CITRUS FRUIT TREES, BEARING NUT TREES, BEARING POME FRUIT TREES, BEARING STONE FRUIT TREES, CARROTS, CORN (FIELD, POP, SEED, SEWEEET), COTTON, EDIBLE BEANS, FORAGE LEGUMES, FRUITING VEGETABLES (PEPPER, TOMATO), GARLIC, GRAIN SORRGHUM, LEEK, KENTILS AND PEAS, MINT, NONBEARING FRUIT TREE AND NUT TREE CROPS, NONBEARING VINEYARDS, ONION AND SHALLOTS (DRY BULB, GREEN), PEANUTS, POTATOES, RICE, SOYBEANS, STRAWBERRIES, SUGARCANE, SUNFLOWERS, TOBACCO, AND WHEAT.

FIRST AID	
If swallowed	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • DO NOT give any liquid to person. • 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 in eyes	<ul style="list-style-type: none"> • Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. • Remove contact lenses, if present, after first 5 minutes; then continue rinsing eyes. • Call a poison control center or doctor for treatment advice.
If on skin	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 to 20 minutes. • Call a poison control center or doctor for treatment advice.
NOTE TO PHYSICIAN	
Because of increased risk of chemical pneumonia or pulmonary edema caused by aspiration of the hydrocarbon solvent, vomiting should be induced only under professional supervision.	
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact CHEMTREC for emergency medical treatment information 1-800-424-9300	

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION. Causes moderate eye irritation. Harmful if swallowed or absorbed through the skin. Avoid contact with skin, eyes or clothing.

Personal Protective Equipment (PPE)

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for **Category F** on EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of waterproof materials, such as barrier laminate, butyl rubber \geq 14 mils, nitrile rubber \geq 14 mils, neoprene rubber \geq 14 mils, or voton \geq 14 mils
- Shoes plus socks

Follow manufacturer's instructions for cleaning/ maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Controls:

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the

Worker Protection Standard (WPA) for agricultural pesticides [(40 CFR 170.240)(d)(4-6)], the handler PPE

requirements may be reduced or modified as specified in the WPS.

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. 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.

ENVIRONMENTAL HAZARDS

This product is toxic to fish. **DO NOT** apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent sites. **DO NOT** contaminate water when disposing of equipment washwater or rinsate.

Endangered Species Protection

If endangered plant species occur in proximity to the application site, the following mitigation measures are required:

- If applied by ground, leave an untreated buffer zone of 200 feet. The product must be applied using a low boom (20 inches above the ground) and ASAE fine to

medium/coarse nozzles.

- If applied by air, leave an untreated buffer zone of 170 feet. Must use straight-stream nozzles (D-6 or larger); wind can be no more than 8 mph; and release height must be 15 feet or less.

To determine whether your county has an endangered species, consult the website
<http://www.epa.gov/espp/usa-map.htm>

Endangered Species Bulletins may also be obtained from extension offices or state pesticide agencies. If the bulletin is not available for your specific area, check with the appropriate local state agency to determine if known populations of endangered species occur in the area to be treated.

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 pesticide application.

Observe all cautions and limitations in this label and the labels of products used in combination with **PENDIM 3.3 HERBICIDE EC**. The use of **PENDIM 3.3 HERBICIDE EC** not consistent with this label can result in injury to crops, animals, or persons. Keep containers closed to avoid spills and contamination.

DO NOT apply this product in a way that will contact workers or other persons, either directly or thorough 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 protection.

DO NOT allow spray to drift from the application site and contact people, structures people occupy at any time and the associated property, parks and recreation areas, non-target crops, aquatic and wetland areas, woodlands, pastures, rangelands, or animals.

DO NOT enter or allow other people (or pets) to enter the treated area until sprays have dried.

REPAR intends that this product may not be used for manufacturing products for application to turf and ornamentals.

REPAR does not recommend or authorize the use of this product in manufacturing, processing or preparing custom blends with other products for application to field and row crops or to orchard, grove, and vineyard crops.

<p>AGRICULTURAL USE REQUIREMENTS</p> <p>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 protections of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It</p>

contains requirements for training, decontamination, notification, an 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 made of waterproof materials such as barrier laminate, butyl rubber \geq 14 mils, nitrile rubber \geq 14 mils, neoprene rubber \geq 14 mils, or vitron \geq 14 mils.
- Shoes plus socks

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: DO NOT STORE BELOW 40°F.

Extended storage at temperatures below 40° F can result in the formation of crystals on the bottom of the container. If crystallization does occur, store the container on its side at room temperature (70°F) and rock occasionally until crystals redissolve.

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 the use according to label directions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL

Nonrefillable Container. DO NOT reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying; then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

Triple rinse containers small enough to shake (capacity \leq 5 gallons) 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 ¼ full with water and re-cap. 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.

Triple rinse containers too large to shake (capacity >5 gallons) as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ 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 mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or 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.

Refillable Container. Refill this container with pesticide only. **DO NOT** reuse this container for any other purpose. Triple rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

Triple rise as follows: To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10% 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.

When this container is empty, replace the cap and seal all openings that have been opened during use; return the container to the point of purchase or to a designated location. This container must only be refilled with a pesticide product. **DO NOT** reuse the container for any other purpose. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn-out threads and closure devices. Check for leaks after refilling and before transport. **DO NOT** transport if this container is damaged or leaking. If the container is damaged, or leaking, or obsolete and not returned to the point of purchase or to a designated location, triple rinse emptied container and offer for recycling, if available, or dispose of container in compliance with state and local regulations.

GENERAL INFORMATION

Pendim 3.3 EC HERBICIDE is a selective herbicide for controlling most annual grasses and certain broadleaf weeds as they germinate. Refer to Table 1 for a complete list of controlled weeds. Pendim 3.3 EC will not control established weeds.

Unusually cold, excessively wet, or hot and dry conditions that delay germination or extended germination over a long period of time can reduce weed control.

Overapplication can result in crop stand loss, crop injury, or soil residues.

Uneven application or improper soil incorporation can decrease weed control or cause crop injury. Soil incorporation deeper than recommended can reduce weed control.

Seedling diseases, cold weather, excessive moisture, shallow or deep planting, low or high soil pH, high soil salt concentration, or drought can weaken seedlings and plants and increase the possibility of crop damage from **Pendim 3.3 EC**. Under these conditions, crop yields can be reduced.

Table 1. Weeds Controlled
(see crop sections for additional weeds controlled)

Weeds controlled with Pendim 3.3 EC HERBICIDE applied up to 4.8 pts/A	
Grasses	
Annual ryegrass	Italian ryegrass*
Barnyardgrass	Japanese brome*
Canary grass*	Johnsongrass (seedling)
Cheat*	Jointed goatgrass*
Crabgrass	Oat, wild
Crowfootgrass	Panicum, fall
Downy brome* (Cheatgrass)	Panicum, Texas
Foxtail, giant	Sandbur, field
Foxtail, green	Shattercane*
Foxtail, yellow	Signalgrass*
Goosegrass	Wild proso millet*
Hairy chess*	Witchgrass
Itchgrass*	Woolly cupgrass*
Broadleaves	
Amaranth, Palmer	Mustard, black
Bugloss, small	Pigweed species
Carpetweed	Purslane
Chickweed, common*	Pusley, Florida
Henbit	Shepherdspurse*
Kochia	Smartweed, Pennsylvania*
Lady's thumb	Sfirge. Ammia;
Lambsquarters, common	Velvet leaf*
Lambsquarters, slimleaf	Waterhemp species
London rocket*	
* Suppression, but controlled when Pendim 3.3 EC use rate exceeds 4.8 pts/A.	
Weeds controlled with Pendim 3.3 EC HERBICIDE applied at 4.8 pts/A or greater	
Grasses	
Annual bluegrass	Lovegrass
Browntop panicum	Sprangletop, Mexican
Grass, Guinea	Sprangletop, red
Junglerice	Swollen fingergrass
Broadleaves	
Dodder†	Prostate, knotweed
Fiddleneck	Puncturevine
Morningglory**	
† For optimum dodder control, use the highest labeled rate of Pendim 3.3 EC specified in the specific crop.	
** Suppression	

MODE OF ACTION

Pendim 3.3 EC is a meristematic inhibitor that interferes with the plant's cellular division or mitosis. This and/or other products with the meristematic inhibiting mode of action may not effectively control naturally occurring biotypes of some of the weeds listed on this label. A weed biotype is a naturally occurring plant within a given species that has a slightly different, but distinct, genetic

makeup from other plants. Other herbicides with the meristematic inhibiting mode of action include other dinitroaniline herbicides, such as trifluralin. If naturally occurring meristematic inhibiting resistant biotypes are present in a field, **Pendim 3.3 EC** and/or any other meristematic inhibiting mode of action herbicide should be tank mixed or applied sequentially with an appropriate registered herbicide having a different mode of action to ensure control.

Application Rate

Use rates for Pendim 3.3 EC when used alone, in tank mix, or sequential applications are given in **Crop-specific Information**. Use rates of this product vary by soil texture and organic matter. See **Table 2** for soil texture groupings used in this label.

Table 2. Soil Texture Groups

COARSE	MEDIUM	FINE
sands loamy sands sandy loams	sandy clay loams* sandy clays loams silt loams silts	silty clay loams* silty clays clay loams clays
*Sometimes considered transitional soils and may be classified as either medium- or fine-textured soils.		
Peat and Muck soils: Pendim 3.3 EC HERBICIDE may be used on peat and muck soils, but weed control may be inconsistent and/or reduced. Use maximum labeled use rate allowed in the specific crop.		

Application Timings

Pendim 3.3 EC HERBICIDE will provide most effective weed control when applied by ground or aerial equipment and subsequently incorporated into soil within 7 days after application by rainfall, sprinkler irrigation, or mechanical tillage prior to weed seedling emergence from soil. **Pendim 3.3 EC** can also be applied through chemigation, including flood basin irrigation systems. **Pendim 3.3 EC** is recommended for preplant surface, preplant incorporated, surface incorporated, preemergence, early postemergence, postemergence incorporated (CULTI-SPRAY) or layby treatment. See **Crop-specific Information** for specific application directions by crop.

Preplant Surface Applications: For use in minimum tillage or no-tillage production systems, apply **Pendim 3.3 EC** alone or in tank mixes up to 45 days before planting. When making early preplant surface applications (15 to 45 days prior to planting, **Pendim 3.3 EC** should be tank mixed or followed by a postemergence herbicide application. Rainfall or sprinkler irrigation within 7 days after application is required to move this product into the upper soil surface where weed seeds germinate.

Preplant Incorporated Applications: Apply **Pendim 3.3 EC HERBICIDE** and incorporate into the upper (1 inch to 2 inches) soil surface up to 60 days before planting. Use an implement capable of giving uniform

incorporation; two-pass incorporation usually results in a more consistent result.

Surface Incorporated Applications: Uniformly apply **Pendim 3.3 EC** as broadcast or banded treatment to soil surface underneath established trees and/or in ground areas between trees rows. Within 7 days after application, incorporate into upper (1 inch to 2 inches) soil surface using either rainfall, sprinkler irrigation, or shallow mechanical incorporation using an implement capable of giving uniform incorporation; two-pass mechanical incorporation usually results in a more consistent result.

Preemergence Surface Applications: Broadcast treatment uniformly to the soil surface at planting and up to 2 days after planting. Rainfall, sprinkler irrigation, or shallow mechanical incorporation within 7 days after application is required to move this product into the upper soil surface where weed seeds germinate. If adequate rainfall or irrigation does not occur and weed seedling emergence begins, a shallow cultivation or rotary hoeing will improve performance.

Early Postemergence Applications: **Pendim 3.3 EC HERBICIDE** must be applied prior to weed seedling emergence or in a tank mix with products that control the emerged weeds. Refer to **Crop-specific Information** for specific post emergence application recommendations by crop.

Postemergence Incorporated Applications (CULTI-SPRAY): Prior to application, crop must be cultivated in such a manner as to throw at least one inch of soil over the base of the crop plants. This will prevent direct contact of **Pendim 3.3 EC** and the zone of brace root formation. **Pendim 3.3 EC** must be applied broadcast with a ground sprayer when crop is at least 4 inches tall up to layby. Use drop nozzles if crop foliage will prevent uniform coverage of the soil surface within the rows. Thoroughly and uniformly incorporate **Pendim 3.3 EC** treatments into the soil with:

- (1) a sweep-type or rolling cultivator set to provide thorough incorporation in the top 1 inch of soil, or
- (2) an adequate overhead irrigation water or rainfall. See **Crop-specific Information (Corn and Grain Sorghum)** for more details on (CULTI-SPRAY) application.

Layby Application: Apply **Pendim 3.3 EC** directly to the soil between rows as a directed spray following the last normal cultivation (layby). See **Crop-specific Information** for more details on layby application.

Split Applications: **Pendim 3.3 EC** may be applied pre-plant incorporated up to 60 days prior to planting and followed by a preemergence application at planting or up to 2 days after planting. The total amount of **Pendim 3.3 EC** applied per acre per season cannot exceed the highest labeled rate for any given soil type. See **Crop-specific Information** for more details on split applications.

Fall Applications: **Pendim 3.3 EC** may be used in fall applications programs in certain crops. See **Crop-specific Information** for details on fall application timing.

Spraying Instructions

Pendim 3.3 EC may be applied using either water or sprayable fluid fertilizer (such as straight 32-0-0 or 28-0-0) as the spray carrier. Additionally, **Pendim 3.3 EC** may be impregnated on dry bulk fertilizer. Sprayable fluid fertilizer as a carrier is **NOT** recommended for use after crop emergence unless the typical fertilizer burn symptoms on the crop are acceptable.

Aerial Applications

Uniformly apply in 5 or more gallons of water per acre. Exercise caution to minimize drift. **DO NOT** apply during periods of gusty winds or when wind conditions favor drifting. Spray drift can cause injury to sensitive crops. 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 (Broadcast)

Uniformly apply with properly calibrated ground equipment in 10 or more gallons of water per acre or 20 or more gallons of liquid fertilizer per acre. Use sprayers equipped with appropriate nozzles that provide uniform and accurate spray distribution and minimize drift. Keep the bypass line on or near the bottom of the tank to minimize foaming. Nozzle and in-line screens must be no finer than 50 mesh. Application of **Pendim 3.3 EC** during periods of gusty winds may result in uneven applications. **DO NOT** apply **Pendim 3.3 EC** postemergence in liquid fertilizers.

If liquid fertilizer/herbicide(s) mixture separates in the spray tank, clogged equipment and uneven application can result. Always predetermine the compatibility of **Pendim 3.3 EC** alone or with other herbicides based on the following compatibility "jar test".

- 1. Add 1 pint of fertilizer to a quart jar
- 2. Add 1 to 4 teaspoon(s) of the Dry Flowable (DF), Wettable Powder (WP), Aqueous Solution (AS), Flowable (F) or Liquid (L) formulation (dePendimg on mixing ratio required) to the liquid fertilizer. The number of teaspoons of the formulation to add can be determined by the following formula.

$$\frac{\text{lbs or pits of product/acre}}{\text{gallons of fertilizer/acre}} \times 11.4 = \begin{matrix} \text{number of teaspoons of} \\ \text{herbicide to add to 1 pint} \\ \text{of fertilizer} \end{matrix}$$

- 3. Close the jar and agitate until the herbicide(s) are evenly dispersed in the liquid fertilizer. If the materials **DO NOT** disperse well, it may be necessary to slurry the chemicals in water before adding to the fertilizer.
- 4. After dispersing the materials, add appropriate number of teaspoons of **Pendim 3.3 EC** to the jar and shake well. Add water soluble concentrate herbicides to the mixture last and agitate. Let the mixture stand for 30 minutes and then observe the results. Look for signs of separation: an oily layer or globules, sludge, flakes or other precipitates.
- 5. Evaluate compatibility.
 - (a) If the herbicide(s) and liquid fertilizer mixture does not separate, use this mixture in your spray tank.

- (b) If the mixture separates but mixes readily with shaking, the mixture can be used provided that good agitation is maintained in the spray tank.
 - (c) If separation of mixture occurs and agitation does not correct this problem, a compatibility agent is needed.
6. If the need for a compatibility agent is demonstrated, the following procedure is recommended: Using a clean quart jar, repeat step 1 above and add 1/2 teaspoon of the compatibility agent to the liquid fertilizer. Mix well and repeat steps 2, 3 and 4. If separation or precipitation occurs with the compatibility agent, **DO NOT** use **Pendim 3.3 EC HERBICIDE** with that specific liquid fertilizer.

Ground Applications (Band)

Uniformly apply the broadcast equivalent rate and volume per acre. To determine these:

$$\frac{\text{Band Width inches}}{\text{Row Width in Inches}} \times \text{Broadcast Rate per Acre} = \text{Band Rate per Acre}$$

$$\frac{\text{Band Width inches}}{\text{Row Width in Inches}} \times \text{Broadcast Volume per Acre} = \text{Band Volume per Acre}$$

Ground Applications (Dry Bulk Fertilizer)

Apply **Pendim 3.3 EC**/dry bulk fertilizer mixtures only with ground equipment. **DO NOT** impregnate **Pendim 3.3 EC** onto coated aluminum nitrate or limestone because these materials will not adsorb the herbicide. Dry fertilizer blends containing mixtures of ammonium nitrate or limestone may be impregnated with **Pendim 3.3 EC**. A minimum of 200 pounds of dry bulk fertilizer, excluding the weight of ammonium nitrate or limestone, must be applied per acre.

Use the following formula to determine the amount (in pints) of **Pendim 3.3 EC** to be impregnated on a ton of dry bulk fertilizer based on the rate of fertilizer to be applied per acre:

$$\frac{2000}{\text{Pounds of Dry Fertilizer per Acre}} \times \frac{\text{Pints of Pendim 3.3 EC (Recommended Rate per Acre)}}{\text{Pints of Pendim 3.3 EC Ton of Fertilizer}}$$

To impregnate **Pendim 3.3 EC** on bulk fertilizer, use a closed rotary-drum mixer or other commonly used dry bulk fertilizer blender equipped with suitable spray equipment. Spray nozzles must be placed to provide uniform coverage of **Pendim 3.3 EC** onto the fertilizer during mixing.

Apply the **Pendim 3.3 EC**/dry bulk fertilizer mixture with an accurately calibrated dry fertilizer spreader. The **Pendim 3.3 EC**/dry bulk fertilizer mixture must be spread uniformly on the soil surface.

Chemigation Applications via Sprinkler Irrigation Systems

Pendim 3.3 EC may be applied as a chemigation treatment through sprinkler irrigation systems. Refer to **Crop-specific Information** sections for individual crops. **DO NOT** apply **Pendim 3.3 EC** via chemigation to crops unless specified in Crop-specific Information section.

Apply this product **ONLY** through a sprinkler irrigation system of the following type: center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move.

DO NOT apply this product through any other type of sprinkler irrigation system.

Uniform distribution of **Pendim 3.3 EC**-treated irrigation water is the sole responsibility of the applicator and is required to avoid crop injury, lack of herbicide effectiveness or illegal pesticide residues in the crop. If you have any questions about calibration, you should contact state extensions service specialists, equipment manufacturers, or other experts.

The system must be properly calibrated (with water) to ensure that the amount of **Pendim 3.3 EC** applied corresponds to the recommended rate. Apply **Pendim 3.3 EC** in 1/2 to 3/4 inches of water during the first sprinkler set (use at least 1 inch of water in the states of Texas, New Mexico and Oklahoma). Maintain agitation in the injection nurse tank to keep a uniform herbicide suspension during application. When application is complete, flush the system with water.

Chemigation Instruction (for low volume micro sprinklers)

Output of low volume sprinkler = 4 to 50 gallons per hour (gph) per emitter. Point of application **MUST** be above ground.

Irrigation system should run a sufficient amount of time prior to **Pendim 3.3 EC** injection to have all emitters functioning properly. After system is operating properly, length of injection should be such that at one period of time during the injection, the first and last emitters in the system contain **Pendim 3.3 EC**-treated water. Add **Pendim 3.3 EC** to the supply tank already filled with the volume of water required for the injection period. Maintain proper agitation in **Pendim 3.3 EC** injection tank. **Pendim 3.3 EC** should be mixed in clean water and injected down-line from filters. Following **Pendim 3.3 EC** injection, system should be flushed for a period of time sufficient to clear the line of **Pendim 3.3 EC**. (If **Pendim 3.3 EC** application is made during a normal irrigation cycle, injection should be made during the last stage.)

Chemigation Calibration (for low volume micro sprinklers)

Calculation of use rate is based on wetted area around emitters – **NOT** on tree acres. To determine correct amount of **Pendim 3.3 EC**, use the following formula:

1. Treated area per each emitter = A
A=3.14 x (radius x radius)
2. The area in square feet wet in each acre = B
B = $\frac{A \times \text{emitters/acre}}{144}$
3. The total area (in square feet) wet by your system = C
C = B x acres covered by system.
4. Rate per treated acre of **Pendim 3.3 EC HERBICIDE**

(based on length of control desired) = R

Amount of
Pendim 3.3 EC $S = \frac{C}{43,560} \times R = \text{qts of Pendim 3.3 EC}$

to inject = S 43,560

Example

If the average distance from emitter to perimeter of wetted area measured one inch below soil surface is 13 inches, then

$A = 3.14 \times (13'' \times 13'')$,
and $A = 530.7$ square inches

If there are 300 emitters per acre, then

$B = \frac{530.7 \times 300}{144}$ and $B = 1105.6$ square feet wetted per acre

If the system cover 20 acres, then

$C = 1105.6$ square feet per acre \times 20 acres and
 $C = 22,112$ square feet wetted by system

If the desired application rate per treated acre is 2.4 qts of **Pendim 3.3 EC**, then

$S = \frac{22,112}{43,560} \times 2.4$ and $S = 1.2$ qts of **Pendim 3.3 EC** should be injected into the system

Special Precautions for Chemigation

- DO NOT** apply when wind speed favors drift beyond the area intended for treatment.
- DO NOT** connect an irrigation system used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.
- A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.
- The pesticide injection pipeline must contain a functional, automatic quick-closing check valve to prevent the flow of fluid back toward the injection pump. It must also contain a functional, normally closed solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- The sprinkler chemigation system must contain a functional check valve, vacuum relief valve, and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow. In addition, systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- The sprinkler chemigation system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump,

the water pressure decreases to the point where pesticide distribution is adversely affected.

- The irrigation line or water pump must include a functional pressure switch that will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Chemigation Systems Connected to Public Water Systems

- Public water system means a system for the provision to the public or piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.
- Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the tip or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.
- All chemigation systems connected to public water systems must also follow restrictions listed in the preceding section titled **Chemigation**.

Applications via Flooded Basin Irrigation Systems

Pendim 3.3 EC may be applied via flooded basin irrigation systems, but only to the following crops: bearing and non-bearing fruit and nut trees, non-bearing vineyards, and alfalfa.

Use Instructions and Precautions for Flooded Basin Irrigation

- Pendim 3.3 EC** may be applied through flooded basin irrigation systems designed to uniformly distribute irrigation water along the soil surface. Solid set systems utilizing tall riser for overhead application are excluded.
- Follow all label recommendations for **Pendim 3.3 EC** regarding rates per acre, timing of application and crop-specific restrictions.
- DO NOT** connect an irrigation system used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.
- A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.
- REPAR recommends that **Pendim 3.3 EC** is mixed with water at a 1:1 ratio in the injection nurse tank to assist with product flowability. Maintain agitation in the injection nurse tank to keep a uniform herbicide suspension during application. When application is complete, flush the system with water.
- Tail water (runoff water) from flood irrigation that

contains **Pendim 3.3 EC HERBICIDE** should be re-circulated and contained in the field of initial application or used only on adjacent tree or vine crops or alfalfa for which **Pendim 3.3 EC** is registered for this type of application.

7. Systems using a gravity-flow pesticide dispensing system must meter the pesticide in the water at the head of the field downstream of a hydraulic discontinuity, such as a drop structure or weir box, to decrease potential for water source contamination from backflow water.
8. Systems utilizing a pressurized water and pesticide injection system must meet the following requirements:
 - The system must contain a functional check valve, vacuum-relief valve, and low-pressure drain appropriately located in the irrigation pipe to prevent water source contamination from backflow.
 - The pesticide injection pipeline must contain a functional automatic quick closing check valve to prevent flow of fluids back towards the injection pump.
 - The pesticide injection pipeline must also contain a functional, normally closed solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
 - The system must contain a functional interlocking control to automatically shut off the pesticide injection pump when the water pump stops.
 - The irrigation pipe or water pump must include a functional pressure switch, which will stop the pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
 - Systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump), of effective design and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
 - Any alternative to the above safety devices must conform to the list of EPA-approved alternative devices.
9. Be sure to regularly measure the flow in the field to ensure the correct amount of **Pendim 3.3 EC** is being metered into the irrigation water and also regularly monitor to ensure that treated water is being uniformly distributed across the field. Flow rates through metering devices and distribution of **Pendim 3.3 EC** can vary with water temperature and speed of water flow across the field.
10. Uniform distribution of **Pendim 3.3 EC**-treated irrigation water is the sole responsibility of the applicator and is required to avoid crop injury, lack of herbicide effectiveness, or illegal pesticide residues in the field.
11. If you have questions about calibration, you should contact state extension service specialists, equipment manufacturers or other experts.

SPRAY DRIFT

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment and weather related factors determines the potential for spray drift. The applicator and grower are responsible for considering all these factors when making decisions. It is the responsibility of the applicator to avoid spray drift onto nontarget areas.

The following drift management requirements must be followed to avoid off target drift movement from aerial applications to agricultural field crops:

1. The distance of the outermost nozzles on the boom must not exceed ¾ the length of the wingspan or rotor.
2. Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees.

Where states have been more stringent regulations, they should be observed.

The applicator should be familiar with and take into account the information covered in the [Spray Drift Reduction Advisory Information](#) presented below.

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 are made improperly or under unfavorable environmental conditions (see **WIND, TEMPERATURE AND HUMIDITY, and TEMPERATURE INVERSIONS**).

CONTROLLIGN 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 high 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 recommended practice. Significant deflection from the 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 -or- straight 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 regarding 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 droplets, etc...).

WIND

Drift potential is lowest between wind speeds of 2 to 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.

TEMPERATUR INVERSIONS

Applications should not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small susPENDIMd 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 or 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

This 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, or nontarget crops or plants) is minimal (e.g. when wind is blowing away from the sensitive areas).

Additives

Spray adjuvants have little or no influence on performance of Pendim 3.3 EC herbicide when applications are made prior to weed emergence. However, several tank mixes with Pendim 3.3 EC require adjuvants to improve burndown of emerged weeds. Therefore, surfactants, liquid fertilizer (28%, 30%, or 32% UAN (urea ammonium nitrate) or ammonium sulfate), or crop oil concentrate may be used with Pendim 3.3 EC tank mixes applied preplant, preemergence, or early postemergence to the crop. Follow the adjuvant recommendations on the tank mix partner's label.

When an adjuvant (or a specific adjuvant product, such as a drift control agent) is to be used with this product, the use of a Chemical Producers and Distributors Association (CPDA) certified adjuvant is recommended. The recommended adjuvants must contain ingredients accepted by the EPA.

General Tank Mixing Information

Pindi 3.3 EC may be applied in a tank mix or a sequential application with other herbicides registered for use in a given crop. Refer to the companion label for weeds controlled in addition to Pindi 3.3 EC alone.

When using tank mixtures or sequential applications with Pindi 3.3 EC, always read the companion product label(s) to determine the specific use rates by soil types, weed species, and weed or crop growth stage. In addition, follow all precautions and restrictions including state and local use restrictions that may apply to specific products. Always follow the most restrictive label.

Uses with Other Products (Tank Mixes)

If this product is used in combination with any other product except as specifically recommended in writing by REPAR, then REPAR shall have no liability for any loss, damage, or injury arising out of its use in any such combination not so specifically recommended. If used in combination recommended by REPAR, the liability of REPAR shall in no manner extend to any damage, loss, or injury not directly caused by the inclusion of the REPAR product in such combination use, and in any event shall be limited to return of the amount of the purchase price of the product. Always perform a mixing test to check the compatibility of Pendim 3.3 EC with all potential tank mix partners.

Mixing Instructions

1. Fill tank 1/2 to 3/4 full with clean water liquid fertilizer and agitate. Prior to mixing **Pendim 3.3 EC** or **Pendim 3.3 EC** tank mixtures in liquid fertilizer, refer to appropriate label sections for recommended uses in liquid fertilizer, application instructions, and compatibility determinations.

NOTE: Pendim 3.3 EC will NOT mix in high salt formulation fertilizers, such as 10-34-0. When utilizing high salt formulation fertilizers as the spray carrier, use one of the following:

- (a) Pre-slurry **Pendim 3.3 EC** in water prior to adding to tank; use 1:1 ratio of water to **Pendim 3.3 EC**.
- (b) Add water to fertilizer solution prior to adding **Pendim 3.3 EC herbicide**. The amount of water should be equal to or greater than the amount of **Pendim 3.3 EC** to be used.

2. **Pendim 3.3 EC Alone**

When using **Pendim 3.3 EC** alone, add **Pendim 3.3 EC** to the partially filled tank while agitating and then fill the remainder of the tank with water or liquid fertilizer.

3. **Pendim 3.3 EC Tank Mixes**

Add the tank mixture ingredients in the order listed below prior to adding **Pendim 3.3 EC** (for tank mixtures with **Butyrac® 200**, **Gramoxone® Extra** or glyphosate, see mixing instructions at the end of this section):

- (a) **Wettable Powder (WP) formulations** – Make a slurry of the WP in water (1:2 ratio). Add the slurry slowly into the partially filled tank while agitating.
- (b) **Dry Flowable (DF)/Water Dispersible Granule (WDG) formulations**- Add the granules to the partially filled tank while agitating. Make a slurry of the granules in water before adding to liquid fertilizer.
- (c) **Flowable (F) formulations** – Add the F formulation to the partially filled tank while agitating.
- (d) **Water Soluble Concentrate (WSC) formulations** - Add the WSC formulation to the partially filled tank while agitating.
- (e) **Emulsifiable Concentrate (EC) formulations** – Add the EC formulation to the partially filled tank while agitating.

After complete mixing, add **Pendim 3.3 EC** to the tank.

- (f) **NOTE: For tank mixes including Butyrac or Gramoxone Extra** or glyphosate near the end of the filling process.

If **Gramoxone Extra** is included in the tank mixture, add 8 ozs of non-ionic surfactant per 100 gallons of total spray mixture as the last ingredient in the tank.

Fill the remainder of the tank with water or liquid fertilizer while agitating.

4. Thorough and continuous sprayer-tank agitation **MUST**

be maintained during mixing and spraying of **Pendim 3.3 EC**. If the spray mixture is allowed to settle for any period of time, thorough agitation is essential to resuspend the mixture before spraying is resumed. Continue agitation while spraying.

Cleaning Spray Equipment

Clean application equipment thoroughly by using a strong detergent or commercial spray cleaner according to the manufacturer's directions, and then triple rinsing the equipment before and after applying this product.

Restrictions and Limitations

- **DO NOT** exceed the maximum labeled rate for any soil type.
- **Pindi 3.3 EC** will not control established weeds. Destroy emerged weeds prior to application.
- **Pindi 3.3 EC** is most effective in controlling weeds mechanically incorporated or when incorporated into the weed germination zone by adequate rainfall or overhead irrigation after application.
- When using tank mixtures with **Pindi 3.3 EC**, always read the companion product label(s) to determine the specific use rates by soil types, weed species, and weed or crop growth stage. In addition, follow all precautions and restrictions including state and local use restrictions that may apply to specific products. Always follow the most restrictive label.
- In the event of a crop loss due to adverse weather conditions or other reasons, any crop registered for a preplant incorporated application of **Pendim 3.3 EC** can be replanted without adverse effects the same year (see Crop specific Information for exceptions). If replanting is necessary, **DO NOT** work the soil deeper than the treated zone.
- Refer to Crop-specific Information for crop-specific Preharvest intervals and feeding and grazing restrictions.

CROP ROTATION RESTRICTIONS

- Use of **Pendim 3.3 EC** in accordance with label directions is expected to result in normal growth of rotational crops in most situations; however, various environmental and agronomic factors, such as and conditions, make it impossible to eliminate all risks associated with the use of this product and, therefore, rotational crop injury is always possible. Soil characteristics and environmental conditions which may contribute to crop stress that may be accentuated by the use of **Pendim 3.3 EC** include: coarse soils, compaction, high salinity, eroded knolls/hilltops, cold and/or wet soils, drought, and heavy rainfall soon after application.
- When **Pendim 3.3 EC** is used in tank mix or sequential combinations, refer to labels of other herbicides traditional rotational crop restrictions
- **Restrictions for rotational cropping after the use of Pendim 3.3 EC are dePENDIMnt on the application use rate of Pendim 3.3 EC in**

the primary crop. The user should thoroughly read the following restrictions to determine the rotational crops for their specific situation, according to application use rate.

I. Rotational Crop Restrictions Following Applications of Pendim 3.3 EC to Field and Row Crops

1. Application Rate less than or equal to 4.8 pts/A (2.0 lbs ai/A):

a. Crops which are labeled for preplant incorporated application may be planted the same season in which **Pendim 3.3 EC** was applied.

b. Sugar beets, Red beets and Spinach
To avoid crop injury, **DO NOT** plant sugar beets, red beets or spinach for 12 months following a spring application of **Pendim 3.3 EC** herbicide or 14 months following a fall application of **Pendim 3.3 EC**.

These crops should not be planted for 18 months following a spring application of **Pendim 3.3 EC** or 20 months following a fall application of **Pendim 3.3 EC** if rainfall or irrigation was not sufficient to produce a crop.

To ensure thorough mixing of soil prior to planting sugar beets, red beets and spinach, land should be plowed using a moldboard plow to a depth of 12 inches.

c. Proso millet, Sorghum (milo), and Annual or Perennial grass crops or mixtures

Proso millet, sorghum (milo), and annual or perennial grass crops or mixtures should not be planted for 10 months after a spring application of **Pendim 3.3 EC** or 12 months after a fall application of **Pendim 3.3 EC** except in the following conditions:

In the states of **Minnesota, North Dakota and South Dakota**, these crops should not be planted for 18 months following a spring application of **Pendim 3.3 EC** or 21 months following a fall application of **Pendim 3.3 EC**.

To avoid the possibility of crop injury in areas that receive less than 20 inches of rainfall or irrigation to produce a crop, these crops should not be planted for 18 months following a spring application of **Pendim 3.3 EC** or 20 months following a fall application of **Pendim 3.3 EC** if rainfall or irrigation was not sufficient to produce a field or row crop.

d. Wheat and Barley

Wheat and barley may be planted 4 months after an application of **Pendim 3.3 EC**, except under the following conditions:

If less than 12 inches of rainfall or overhead irrigation was received between application and

rotational crop planting, wheat should not be planted before 12 months after a spring application of **Pendim 3.3 EC** or 14 months after a fall application of **Pendim 3.3 EC**.

In dryland areas and/or areas where irrigation is necessary to produce the crop treated with **Pendim 3.3 EC**, **DO NOT** plant winter wheat or barley as a follow crop if crop failure/destruction occurs and land is fallowed during the summer.

e. All Other Rotational Crops Not Specifically Addressed Above

Crops, other than those to which **Pendim 3.3 EC** may be applied as a preplant incorporated treatment, may be planted the year following application of **Pendim 3.3 EC**, except under the following condition:

If rainfall or irrigation was not sufficient to produce a crop, delay planting for 18 months following a spring application of **Pendim 3.3 EC** or 20 months following a fall application of **Pendim 3.3 EC**.

2. Application Rate greater than 4.8 pts/A (2.0 lbs ai/A):

In the growing season following application of **Pendim 3.3 EC** to field and row crops at greater than 4.8 pts/A, plant only those crops for which **Pendim 3.3 EC** is labeled for preplant incorporated treatment or crop injury may occur. **DO NOT** plant other crops for 24 months.

II. Rotational Crop Restrictions Following Applications of Pendim 3.3 EC to Orchard, Grove, and Vineyard Crops

In the growing season following application of **Pendim 3.3 EC** to bearing fruit and nut trees, plant only those crops for which **Pendim 3.3 EC** is labeled for preplant incorporated treatment or crop injury may occur.

DO NOT rotate to other crops (except for nut crops, fruit trees, or grapes) for 24 months following a **Pendim 3.3 EC** application to bearing fruit or nut trees.

Use Area



Crop Specific Information

Crop Injury Disclaimer: Pendim 3.3 EC use may result in crop injury, loss or damage to certain crops under a number of conditions, including but not limited to agronomic, cultural, mechanical and environmental. Numerous risks of loss or damage to certain crops may be associated with the use of **Pendim 3.3 EC** even when directions for use are followed completely. The user or grower should take all such risks into consideration before deciding to apply the product. **REPAR recommends testing on a small portion of the target crop to determine if damage is likely to occur.** Each grower who is considering the product for such use should test **Pendim 3.3 EC** in order to determine its suitability. A grower should use **Pendim 3.3 EC** only to the extent that in his sole opinion the benefit of **Pendim 3.3 EC** use outweighs the potential injury to the grower's crop.

In addition, many factors can affect crop growth and/or yield, including but not limited to, insects, diseases, weed competition, poor seed quality, improper planting depth, mechanical cultivation, poor weather (such as freezing or excessive wind, rain, heat, or cold), lack of or excessive moisture, crusting, fertility, or hardpans. Risk of loss or damage to crops may be associated with the use of **Pendim 3.3 EC Herbicide** and contribute to poor stands due to failure of crop to emerge, swelling of roots or other below-ground plant parts, less vigorous plant growth and development, and reduction in yield potential.

Pendim 3.3 EC may also cause injury to sensitive rotational crops.

ALFALFA
Grown for Forage, Grain or Seed

Pendim 3.3 EC may be applied by ground, air, chemigation flooded basin irrigation systems, or on dry bulk fertilizer.

Use Methods, Timings and Rates

Established Alfalfa for Forage/Hay (defined as alfalfa planted in the fall or spring that has gone through a first cutting/mowing):

Uniformly apply **Pendim 3.3 EC** at a broadcast rate of 1.2 to 4.8 quarts per acre prior to weed emergence. Applications can be made in the fall after the last mowing/cutting, during winter dormancy, in the spring, or between cuttings.

Applications should be made prior to the alfalfa reaching 6 inches in regrowth.

Established Alfalfa Grown for Seed Production (defined as alfalfa planted in the fall or spring that has gone through a summer season of cutting/mowing):

Uniformly apply **Pendim 3.3 EC** at a broadcast rate of 1.2 to 4.8 quarts per acre prior to weed emergence in one of the following ways:

1. Apply to dormant established alfalfa.
2. Apply before alfalfa exceeds 10 inches in height after first mowing/beating.
3. Once the alfalfa reaches 10 inches in height or if the alfalfa has been mowed/beaten two or more

times, **Pendim 3.3 EC** must be applied with drop nozzles directing the spray so that there is little to no contact with the foliage.

Seedling Alfalfa (defined as alfalfa planted in the fall or spring which has NOT gone through a cutting/mowing): Uniformly apply **Pendim 3.3 EC** at a broadcast rate of 1.2 to 2.4 pints per acre prior to weed emergence. Applications can be made once the seedling alfalfa has reached the 2nd trifoliolate stage of growth. Applications should be made prior to the alfalfa reaching 6 inches in growth.

Alfalfa Stand Establishment: Apply **Pendim 3.3 EC** at a broadcast rate of 1.2 to 1.8 pints per acre as a preplant incorporated or preemergence treatment in direct-seeded alfalfa. Some crop stand reduction and stunting may occur with this use of **Pendim 3.3 EC**; however, reduced weed competition will allow establishment of a quality stand. Use the lower rates on coarse-texture soil or in lower rainfall areas (receiving less than 20 inches of rainfall and irrigation a year).

- Preplant incorporated: Uniformly incorporate **Pendim 3.3 EC** into the top 2 to 3 inches of the final seedbed prior to planting.
- Preemergence: Apply directly after drill seeding alfalfa. Alfalfa should be planted into a seedbed that is firm and free of clods.

Chemigation Applications

Pendim 3.3 EC may be applied through sprinkler irrigation systems. Follow all recommendations, special instructions and precautions in the general section covering **Chemigation in Spraying Instructions.**

Flooded Basin Irrigation Systems

Pendim 3.3 EC may be applied in flooded basin irrigation systems. Follow all recommendations, special instructions and precautions in the general section covering **Flooded Basin Irrigation in Spraying Instructions.**

Restrictions and Limitations

- **DO NOT** exceed 4.8 quarts of **Pendim 3.3 EC** per acre in any one crop season.
- Follow all precautions and restrictions on the labels of all products applied in combination with **Pendim 3.3 EC.**

Always follow the most restrictive label.

- **DO NOT** apply **Pendim 3.3 EC** less than 50 days prior to alfalfa harvest for forage or hay.
- **DO NOT** apply **Pendim 3.3 EC** less than 90 days prior to alfalfa harvest for seed.
- Some stunting and chlorosis of the alfalfa may occur with postemergence applications.
- Applications made after the alfalfa exceeds 6 inches in height may result in poor weed control due to possible reduced spray coverage to the soil.

ARTICHOKE

Application Instructions

Uniformly apply **Pendim 3.3 EC** to artichoke up to 9.7 pints per acre as a broadcast spray to the soil surface at least 200 days prior to harvest. Application must be made pre-transplant to artichoke, at no less than 1 - 2 days prior to transplanting.

Pendim 3.3 EC should be applied prior to weed emergence. EMERGED WEEDS WILL NOT BE CONTROLLED BY THIS TREATMENT. Adequate rainfall or overhead irrigation within 7 days after application will provide the most consistent weed control. If no rain is expected the herbicide may be lightly incorporated into the soil shortly after application, but before transplanting.

Follow all precautions and restrictions on the labels of all products applied in combination with **Pendim 3.3 EC**. Always follow the most restrictive label.

Restrictions and Limitations

- **DO NOT** apply postemergence over the top of or to foliage of artichoke as severe injury may occur.
- **DO NOT** apply more than 9.7 pints per acre per season
- **Apply** only once a year.
- The plant-back intervals (PBIs) are 90-days for rotated cereal grain crops, an 270-days for all other rotated crops.
- **DO NOT** apply within 200 days of harvest.
- **DO NOT** feed forage or graze livestock in treated fields.
- **DO NOT** use **Pendim 3.3 EC** on peat or muck soils.

ASPARAGUS

Uniformly apply **Pendim 3.3 EC** to asparagus up to 9.7 pints per acre as a broadcast spray to the soil surface at least 14 days before the first harvest. Application must be made prior to spear emergence or remove emerged spears prior to making the application.

Pendim 3.3 EC should be applied prior to weed emergence. EMERGED WEEDS WILL NOT BE CONTROLLED BY THIS TREATMENT. Adequate rainfall or overhead irrigation within 7 days after application will provide the most consistent weed control. If no rain is expected the herbicide may be lightly incorporated into the soil shortly after application, but before transplanting.

Follow all precautions and restrictions on the labels of all products applied in combination with **Pendim 3.3 EC**.

Always follow the most restrictive label.

Restrictions and Limitations

- **DO NOT** apply postemergence over the top of emerged spears as severe injury may occur.
- **DO NOT** apply more than 9.7 pints per acre per season
- **DO NOT** apply within 14 days of harvest.
- **Apply** only once a year.
- The plant-back intervals (PBIs) are 90-days for rotated cereal grain crops, and 270-days for all other rotated crops.
- **DO NOT** feed forage or graze livestock in treated fields.
- **DO NOT** use **Pendim 3.3 EC** on peat or muck soils.

BEARING FRUIT AND NUT TREES

Pendim 3.3 EC may be applied in the following individual crops within the fruit tree and nut tree crop groupings.

Citrus Fruit Crop Grouping	
calamondin citrus citron citrus hybrids grapefruit kumquat lemon	lime mandarin (tangerine) orange (sweet and sour) pummelo Datsuma mandarin tangelo

Tree Nuts Crop Grouping		
Almond beach nut Brazil nut butternut cashew	chestnut chinquapin filbert (hazelnut) hickory nut macadamia nut	pecan pistachio walnut

Pome Fruits Crop Grouping	Stone Fruits Crop Grouping
apple crabapple loquat mayhaw pear pear, oriental quince	apricot aprium cherry, sweet cherry, tart nectarine peach plum plum, chicksaw plum, Damson plum, Japanese plumcot pluot prune

Other Fruit Trees
Pomegranate and Juneberry

Use Methods, Timings and Rates

Pendim 3.3 EC Herbicide may only be applied by ground, chemigation, or flooded basin irrigation systems.

Pendim 3.3 EC may be applied either in a single

application or sequentially with an interval of 30 days or more. Apply **Pendim 3.3 EC** at between 2.4 to 4.8 quarts per acre (depending on desired length of control, see chart below) per application, but not to exceed a total of 4.8 quarts/A per year in pome, stone and other fruit trees, and not to exceed a total of 7.2 quarts/A per year in citrus and nut trees.

Pendim 3.3 EC Use Rate per Acre:

Short-term control	2.4 quarts
Long-term control	4.8 quarts

Ground Applications - Pendim 3.3 EC may be applied **surface incorporated or (surface) preemergence.**

Apply **Pendim 3.3 EC** as a broadcast or banded treatment using ground equipment before weed emergence. Apply the spray directly to the ground beneath the trees and/or in areas between rows. DO NOT apply over the top of trees with leaves or buds or fruit. Contact by the spray mixture with leaves, shoots, or buds may cause injury.

Chemigation Applications

Pendim 3.3 EC may be applied through sprinkler irrigation systems. Follow all recommendations, special instructions and precautions in the general section covering **Chemigation in Spraying Instructions.** DO NOT apply **Pendim 3.3 EC**-treated irrigation water over top of trees with leaves or buds or fruit. Contact with leaves, shoots, or buds by spray mixture may cause injury.

Flooded Basin Irrigation Systems

Pendim 3.3 EC may be applied in flooded basin irrigation systems. Follow all recommendations, special instructions and precautions in the general section **Flooded Basin Irrigation in Spraying Instructions.**

Restrictions and Limitations

- DO NOT apply more than 4.8 quarts of **Pendim 3.3 EC** per acre per year in pome, stone and other fruit trees.
- DO NOT apply more than 7.2 quarts of **Pendim 3.3 EC** per acre per year in citrus and nut trees.
- DO NOT apply by air.
- DO NOT feed forage or graze livestock in treated groves or orchards.
- DO NOT apply within 1 day of harvest of citrus fruit.
- DO NOT apply within 60 days of harvest of pome and stone fruit or other tree fruit.
- DO NOT apply within 60 days of harvest of nuts, except almonds.
- DO NOT apply within 120 days of harvest of almonds.
- DO NOT apply to newly seeded nursery stock.

BRASSICA HEAD AND STEM VEGETABLES

Pendim 3.3 EC may be applied to Brassica head and stem vegetables, such as:
Broccoli

- Chinese Broccoli
- Brussels Sprouts
- Cabbage
- Chinese Cabbage (napa)
- Chinese Mustard Cabbage
- Cauliflower
- Cavalo Broccolo
- Kohlrabi

Uniformly apply **Pendim 3.3 EC** to Brassica head and stem vegetables up to 2.4 pints per acre as a broadcast postemergence foliar spray or as a postemergence-directed spray between vegetable rows. Apply to 2-4 leaf vegetable transplants at 1 to 3 days after transplanting, or to the 2 – 4 leaf stage of direct-seeded vegetable plants.

Pendim 3.3 EC should be applied prior to weed emergence. EMERGED WEEDS WILL NOT BE CONTROLLED BY THIS TREATMENT. Adequate rainfall or overhead irrigation within 7 days after application will provide the most consistent weed control. If no rain is expected the herbicide may be lightly incorporated into the soil shortly after application, but before transplanting.

Follow all precautions and restrictions on the labels of all products applied in combination with **Pendim 3.3 EC.** Always follow the most restrictive label.

Restrictions and Limitations

- DO NOT apply more than 2.4 pints per acre per season
- DO NOT apply within 60 days of broccoli harvest, and within 70 days of cabbage harvest.
- Apply only once a year.
- The plant-back intervals (PBIs) are 90-days for rotated cereal grain crops, and 270-days for all other rotated crops.
- DO NOT feed forage or graze livestock in treated fields.
- DO NOT use **Pendim 3.3 EC** on peat or muck soils.

CARROTS

Pendim 3.3 EC may be applied by ground, air, or

chemigation.

Use Methods, Timings and Rates

Preemergence - Make a single broadcast application by ground or by air or by chemigation at 2.4 pints per acre of **Pendim 3.3 EC** as a postplant treatment prior to emergence of the crop and before weed emergence. Apply as a pre emergence treatment within 2 days after planting.

Layby - Pendim 3.3 EC may be applied only by ground equipment at layby (last mechanical cultivation) at 2.0 pints per acre as a directed spray to the soil between rows.

Pendim 3.3 EC should be applied prior to weed emergence. Emerged weeds will not be controlled by this treatment.

DO NOT allow the spray to contact carrot plants or injury may occur. **DO NOT** apply layby applications by chemigation or by air.

Chemigation Applications

Pendim 3.3 EC may be applied through sprinkler irrigation systems. Follow all recommendations, special instructions and precautions in the general section covering **Chemigation** in **Spraying Instructions**. **DO NOT** allow Pendim 3.3 EC-treated irrigation water to contact carrot plants.

DO NOT apply tank mixtures through any type of irrigation system unless the label instructions on chemigation of all products are followed.

Restrictions and Limitations

- **DO NOT** apply more than 2.4 pints per acre per season.
- **DO NOT** apply within 60 days of harvest.
- **DO NOT** feed forage or graze livestock in treated fields
- **DO NOT** apply as a broadcast spray over top of carrots or crop injury may result.
- **DO NOT** apply layby applications by chemigation or by air.

CARROTS GROWN FOR SEED PRODUCTION
PENDIM 3.3 EC Herbicide may be applied only by layby.

Use Methods, Timings and Rates

Last Cultivation (Layby) - Apply **Pendim 3.3 EC** following the last normal mechanical cultivation (layby) at a rate of 1.2 to 4.8 pints per acre (on a broadcast basis). Uniformly apply as a directed spray to the soil between rows.

DO NOT allow the spray to contact carrot plants or injury may occur. Use protective shields to avoid contact with carrot foliage. Use properly calibrated and accurate nozzles and equipment.

Layby applications can be applied to carrots previously treated with herbicides registered in/on carrots. Consult the labels of those herbicides for suggested treatments, rates to be used, and precautions or restrictions for use in carrots and for follow crop restrictions.

Restrictions and Limitations

- **DO NOT** apply as a broadcast spray over top of carrots or crop injury may result.
- **DO NOT** apply layby applications by chemigation or by air.
- **DO NOT** apply within 60 days of carrot seed harvest.
- **DO NOT** feed, forage or graze livestock in treated fields.
- **DO NOT** harvest carrots for food or feed use.

SPECIAL CROP USE RESTRICTIONS

The pesticide applicator, the producer of the crop, and the

seed conditioner must be aware that use of this product according to this labeling is deemed a nonfeed/nonfood use. If the applicator of this pesticide is not the producer, the applicator should provide a copy of this labeling to the producer of the crop. Producers of this crop who use this product, or cause the product to be used on a field they operate, should provide a copy of this pesticide label to the seed conditioner.

Consequently, no portion of this carrot seed crop, including but not limited to green chop, hay, pellets, meal, whole seed, cracked seed, roots, bulbs, foliage and seed screenings, may be used or distributed for food or feed purposes.

Processed carrot seed from a field treated with this product must bear a specific tag or conspicuous container labeling, or if shipped in bulk, on the shipment invoice or bill of lading, with the following statement: "Not for human consumption or animal feed." All seed screenings from seed processing shall be disposed of in such a manner that the screenings cannot be distributed or used for human food or animal feed purposes.

The seed conditioner shall keep records of screening disposal for three years from the date of disposal and shall furnish the records immediately upon request. Conditioner disposal records shall consist of documentation of on-farm disposal, disposal at a controlled dumpsite, incinerator, compost or other equivalent disposal site and shall include the lot numbers, amount of material disposed of, the grower(s), and the date of disposal.

CORN
Field, Pop, Seed, Sweet

Pendim 3.3 EC may be applied by ground, air or chemigation.

Pendim 3.3 EC may be applied in conventional, minimum, or no-till as a preemergence, postemergence, or postemergence incorporated (CULTI-SPRAY) application in

field corn.

Pendim 3.3 EC may be applied in conventional tillage as a preemergence or postemergence application in sweet corn, seed corn, or popcorn.

Regardless of tillage system, plant corn at least 1-1/2 inches deep and completely cover with soil.

In conventional tillage systems, plant into a seedbed that is firm and free of clods and trash. Use only where adequate tillage is practiced to provide good soil coverage of the corn seed.

In no-till systems, utilize a no-till planter that is capable of planting through crop residue. The use of no-till planters under conditions that do not allow good soil coverage of the corn seed can result in reduced crop stand or injury if **Pendim3.3 EC** contacts the germinating corn seed. Check equipment to ensure good seed coverage.

Pendim 3.3 EC or **Pendim 3.3 EC** tank mix combination treatments are most effective in controlling weeds when adequate rainfall or overhead irrigation is received within 7 days after application. If cultivation is necessary because of soil crusting or weed germination, use shallow tillage and make certain corn seeds are below the tilled area.

Additional Weeds Controlled: In addition to the weeds listed in Table 1, **Pendim 3.3 EC** will control the following weeds in corn with **CULTI-SPRAY** application: wild proso millet and shattercane.

Use Methods and Timings

Preemergence - Apply after planting but before weeds and crop emerge.

Postemergence - Apply postemergence until field corn is 30 inches tall (20 to 24 inches tall for pop, seed and sweet corn) or in the V8 growth stage, whichever is more restrictive. If the corn canopy prevents applications from reaching the soil, use drop nozzles and apply as a directed spray.

CULTI-SPRAY - Apply **Pendim 3.3 C** alone or **Pendim 3.3 EC** plus atrazine when field corn is at least 4 inches tall until last cultivation (layby). **Pendim 3.3 EC** plus atrazine must be applied before the field corn reaches 12 inches in height.

DO NOT exceed 1.2 lbs ai per acre of atrazine, as specified on the atrazine label. Under situations of low rainfall or soil moisture when deep germinating weeds such as shattercane or field sandbur are anticipated, mechanical incorporation will provide best results. If cultivation is needed after application and incorporation of **Pendim 3.3 EC**, the depth of cut should be no deeper than the depth of cut used to incorporate.

Chemigation Applications

Pendim 3.3 EC herbicide may be applied through sprinkler irrigation systems. Follow all recommendations, special instructions and precautions in the general section covering **Chemigation in Spraying Instructions**.

Use Rates

Preemergence or Postemergence Applications

Soil Texture	Organic Matter		
	< 1.5% (pts/A)	1.5 to 3.0 % (pts/A)	> 3.0% (pts/A)
Course	1.8 to 2.4	2.4 to 3.6	3.6
Medium	2.4 to 3.6	3.6	3.6 to 4.8
Fine	2.4 to 3.6	3.6 to 4.8	3.6 to 4.8

CULTI-SPRAY Applications – Field Corn Only

Soil Texture	Southern States ¹ pts/A	Northern States ¹ pts/A
Coarse	1.2 to 1.8	1.8 to 2.4
Medium	1.8 to 2.4	2.4 to 3.6
Fine	1.8 to 3.6	2.4 to 3.6

¹See **Restrictions and Limitations** for map of specific states

Restrictions and Limitations

- **DO NOT** apply **Pendim 3.3 EC** in reduced, minimum or no-till sweet corn, seed corn or popcorn.
- **DO NOT** apply **Pendim 3.3 EC** in no-till in California.
- **DO NOT** apply preplant incorporated.
- **DO NOT** apply postemergence in liquid fertilizer.
- Livestock can graze or be fed forage from treated corn after 21 days following application.
- **DO NOT** exceed one application per crop season at the highest rate per acre for any given soil type and application method.

COTTON

Pendim 3.3 EC may be applied by ground, air, or chemigation in conventional, minimum, stale seedbed, or no-till as a preplant surface, preplant incorporated, preemergence, or layby application in cotton.

Preplant surface, preemergence, and layby treatments are most effective in controlling weeds when adequate rainfall or overhead irrigation is received within 7 days after application. A shallow cultivation is recommended if soil crusting or soil compaction occurs. If weeds begin to germinate or adequate moisture is not received within 7 days after application, use shallow tillage (rotary hoe or light harrow) and make sure cotton seeds are below tilled area. The use of a postemergence herbicide treatment may be required to control weed escapes at planting or following cotton emergence.

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Additional Weeds Suppressed: In addition to the weeds listed in Table 1, Pendim 3.3 EC will suppress Russian thistle in the state of Arizona.

Use Methods and Timings

Preplant Surface - Apply **Pendim 3.3 EC** up to 15 days prior to planting. Apply **Pendim 3.3 EC** tank mixes and sequential programs as specified under the tank mix section.

Preplant Incorporated - Apply **Pendim 3.3 EC** up to 60 days prior to planting and incorporate within 7 days of application. Apply **Pendim 3.3 EC** tank mixes and sequential programs as specified under the tank mix section.

Preemergence - Apply **Pendim 3.3 EC** at planting or up to 2 days after planting. Apply to a seedbed that is firm and free of clods. Apply **Pendim 3.3 EC** tank mixes and sequential programs as specified under the tank mix section.

Preplant Incorporated followed by Preemergence - Apply **Pendim 3.3 EC** up to 60 days prior to planting and incorporate within 7 days of application. Apply overlay application of **Pendim 3.3 EC** at planting or up to 2 days after planting. Total amount of **Pendim 3.3 EC** applied per acre cannot exceed the highest labeled rate for a given soil type. Preplant incorporated and preemergence applications of **Pendim 3.3 EC** may be applied with the labeled tank mix herbicide(s).

Layby Application (at last cultivation) - Apply **Pendim 3.3 EC** directly to the soil between rows as a directed spray following the last normal cultivation (layby). Layby applications can be applied in cotton previously treated with **Pendim 3.3 EC** or any herbicide(s) registered for use in cotton. Consult the labels of those herbicides for suggested treatments, rates to be used, and precautions or restrictions for use in cotton, and for follow-crop restrictions. The total amount of **Pendim 3.3 EC** applied per acre per season cannot exceed the highest labeled rate for a given soil type.

DO NOT apply as a broadcast spray over the top of the cotton or **SERIOUS CROP INJURY CAN RESULT. AVOID CONTACT OF THE SPRAY** to the non woody portion of cotton stems and to cotton foliage or **SERIOUS CROP INJURY CAN RESULT.** To reduce the potential for crop injury caused by herbicide contact with foliage and stems, use protective shields when conditions favoring spray drift occur.

Glyphosate containing products may be applied with **Pendim 3.3 EC** at layby in cotton with the **Roundup Ready®** gene. **DO NOT** apply glyphosate containing products at layby on non-Roundup **Beady** cotton. **DO NOT** apply **Pendim 3.3 EC** and glyphosate tank mix as a broadcast spray

over the top of cotton or CROP INJURY MAY RESULT.

Chemigation Applications

Pendim 3.3 EC herbicide may be applied through sprinkler irrigation systems. Follow all recommendations, special instructions and precautions in the general section covering **Chemigation in Spraying Instructions.**

Fall Application - **Pendim 3.3 EC** may be applied for weed control in cotton in the fall after October 15 (up to 140 days prior to planting cotton) in Arizona, California, Louisiana, New Mexico, Mississippi, Oklahoma and Texas. Apply **Pendim 3.3 EC** at the broadcast rate of 2.4 pints per acre on coarse or medium soils and 3.6 pints per acre on fine soils.

Use Rates

Soil Texture	Conventional or Minimal Tillage (pts/A)	No-Till ² (pts/A)
Coarse	1.2 to 2.4 ¹	1.8 to 2.4
Medium	1.8 to 2.4	2.4 to 3.6
Fine	2.4 to 3.6	3.6 to 4.8

¹DO NOT exceed 1.8 pts/A on coarse-textured soils in California. ²Not recommended for soils of more than 3% organic matter.

Restrictions and Limitations

- **DO NOT** apply **Pendim 3.3 EC** in no-till in California.
- Preharvest Interval (PHI) is 60 days between the last **Pendim 3.3 EC** application and harvest.
- **DO NOT** feed forage or gaze livestock in treated cotton fields.
- **DO NOT** exceed the highest seasonal rate per acre for any given soil type.

EDIBLE BEANS
Dry, Lima, Snap, Chickpeas (Garbanzo Beans)
Southern Peas (Cowpeas), and Sweet Lupines

Pendim 3.3 EC may only be applied (fall) preplant surface or preplant incorporated in chickpeas (garbanzo beans), dry beans, lima beans, snap peas, and Southern peas (cowpeas). **Pendim 3.3 EC** may be applied (fall) preplant surface or preplant incorporated or Preemergence in sweet lupines.

Use Methods and Timings

Preplant Incorporated - Apply up to 60 days prior to planting and incorporate within 7 days of application.

Preemergence - Apply only to sweet lupines at planting or up to 2 days after planting. Apply to a seedbed that is firm and free of clods.

Use Rates

Soil Texture	Southern States	Northern States
		<3.0% Organic

		Matter>3.0 pts/A	
Coarse	1.8	2.4	2.4
Medium	2.4	3.0	3.6
Fine	3.6	3.6	3.6

Fall Applications - Fall preplant surface and preplant incorporated applications may be made in North Dakota, South Dakota, Minnesota, Oregon, Washington, Montana, Idaho, and Wyoming only. Rainfall or irrigation is required for incorporation and activation. Unpredictable weed control can be expected since factors such as length of time between application and planting as well as uncontrollable weather factors will determine herbicide activity and longevity.

Apply **Pendim 3.3 EC** and incorporate (rainfall, irrigation or mechanically) in late fall prior to planting edible beans [chickpeas (garbanzo beans)], dry beans (such as navy, great northern, red kidney, black turtle, cranberry, and small white type), lima beans, snap beans, Southern peas (cow-peas), and sweet lupines the following spring. Apply **Pendim 3.3 EC** in the late fall when soil temperatures are 45°F or below but before the ground freezes.

DO NOT apply when the air temperature is below 45°F.

Preplant Surface and Preplant Incorporated (Fall Application¹)

Use Rates

Soil Texture	Broadcast Rate <3.0% Organic Matter (pts/A)	Broadcast Rate >3.0% Organic Matter (pts/A)
Coarse	1.2 to 2.4	2.4
Medium	1.8 to 3.0	3.0 to 3.6
Fine	2.4 to 3.6	3.6

¹For use in North Dakota, South Dakota, Minnesota, Oregon, Washington, Montana, Idaho, and Wyoming only.

Restrictions and Limitations

- **DO NOT** feed lupine hay and forage or graze livestock in treated lupine fields.
- **DO NOT** apply Pendim 3.3 EC more than once per cropping season.
- **DO NOT** apply in any type of irrigation system.

FORAGE LEGUMES

Pendim 3.3 EC may be used in forage legumes used as a cover crop in federal set-aside or conservation reserve program areas.

Some stand reduction of the legume cover crop may occur with this use. Consult local county extension service or the local ASC committee for recommended cover crops.

If loss of cover crop occurs due to adverse weather conditions, any crop registered for **Pendim 3.3 EC** preplant incorporated use can be replanted the same year into **Pendim 3.3 EC**-treated soil without adverse effects. If replanting is necessary, **DO NOT** rework the soil deeper than the **Pendim 3.3 EC**-treated zone. **DO NOT** feed or graze legume cover crops established following Pendim 3.3 EC application.

The cover crop residue should ultimately be destroyed by tillage or left on the surface to retard erosion or as directed by the local ASC committee.

Use Methods, Timings, and Rates

Pendim 3.3 EC herbicide may be applied preplant incorporated or preemergence for weed control in legume cover crops.

Use Rates Preplant Incorporated or Preemergence

Soil Texture	Broadcast Rate pts/A
Coarse	1.2 to 1.8
Medium	1.8 to 2.4
Fine	2.4 to 3.0

FRUITING VEGETABLES

Pendim 3.3 EC may be applied to the following fruiting vegetables: tomato, eggplant, groundcherry (*Physalis* spp.), pepper (includes bell pepper, chili pepper, cooking pepper, pimento, sweet pepper), pepino, tomatillo.

Use Methods and Timings

Uniformly apply **Pendim 3.3 EC** only by ground or air as a broadcast preplant incorporated application, or as a broadcast preplant surface application prior to transplanting fruiting vegetables, or as a post-directed application to transplanted or established direct-seeded fruiting vegetables.

DO NOT apply prior to direct-seeded fruiting vegetables.

DO NOT apply postemergence over the top of or to foliage of fruiting vegetables as severe injury may occur.

Pendim 3.3 EC can be applied as a post-directed spray on the soil at the base of the plant, beneath plants, and between rows. Avoid direct contact with foliage or stems. Be sure roots of transplants are established. Following the post-directed spray and when sufficient rainfall or irrigation does not occur to activate the herbicide, mechanically incorporate at the time of blocking and thinning or at "layby." **Pendim 3.3 EC** should be applied prior to weed emergence. **EMERGED WEEDS WILL NOT BE CONTROLLED BY THIS TREATMENT.**

Use Rates

Soil Texture	Broadcast Rate pts/A
Coarse	1.2 to 1.8
Medium	1.8 to 2.4
Fine	1.8 to 3.6

Restrictions and Limitations

- **DO NOT** apply more than 3.6 pints per acre per season.
- **DO NOT** apply within 70 days of harvest.
- **DO NOT** allow **Pendim 3.3 EC** treated soil to come in contact with transplant area.
- **DO NOT** apply if row is to later be covered with plastic.

GARLIC

Pendim 3.3 EC may be applied preemergence, postemergence, or split application by ground, air, or chemigation.

Use Methods and Timings

Preemergence - After planting but before crop and weeds emerge.

Postemergence - 1st to 5th true-leaf growth stage.

Split Application - At both preemergence and postemergence timings.

Chemigation Applications

Pendim 3.3 EC may be applied through sprinkler irrigation systems. Apply between the 2nd and 9th true-leaf stage (2nd to 6th true-leaf stage in California). **DO NOT** irrigate in excess of 0.5 inch of water. Follow all recommendations, special instructions and precautions in the general section covering **Chemigation in Spraying Instructions**.

Use Rates

Soil Texture	Broadcast Rate pts/A
Coarse	1.8
Medium	2.4
Fine	3.6

Restrictions and Limitations

- **DO NOT** exceed 3.6 pints per acre per crop (except Idaho, Oregon, and Washington).
- **DO NOT** apply within 60 days of harvest in California and within 45 days of harvest in all other states.
- **DO NOT** feed or graze these crops.

GRAIN SORGHUM

Uniformly apply **Pendim 3.3 EC** in water by ground equipment or by aircraft.

Pendim 3.3 EC may be applied as a

postemergence incorporated (CULTI-SPRAY) application in grain sorghum grown in all states.

In addition, **Pendim 3.3 EC** may be applied early postemergence in grain sorghum grown in states east of the Mississippi River and in Arkansas, eastern Texas, Louisiana, and the Missouri "bootheel".

DO NOT apply **Pendim 3.3 EC** in grain sorghum preplant incorporated or preemergence as serious crop injury can result. **DO NOT** apply **Pendim 3.3 EC** in grain sorghum more than once per crop season.

Additional Weeds Controlled: In addition to the weeds listed in Table 1, **Pendim 3.3 EC** as a CULTI-SPRAY application will control the following weeds in grain sorghum: wild proso millet and shattercane.

Use Rates

CULTI-SPRAY Application

Soil Texture	Southern States pts/A	Northern States pts/A
Coarse	1.8	2.4
Medium	2.4	3.6
Fine	3.6	3.6
*See Restrictions and Limitations for map of specific states		

Early Post Emergence Application

Soil Texture	Pendim 3.3 HERBICIDE
Coarse	DO NOT USE
Medium, Fine	2.4 pts/A

Restrictions and Limitations

- **DO NOT** apply **Pendim 3.3 EC** preplant incorporated or preemergence
- **DO NOT** apply **Pendim 3.3 EC** as a CULTI-SPRAY treatment in grain sorghum planted in double row beds.
- **DO NOT** replant grain sorghum if crop loss occurs.
- **DO NOT** apply in liquid fertilizer.
- Livestock can graze or be fed forage from **Pendim 3.3 EC** treated grain sorghum fields after 21 days following application.

GREEN ONIONS
(Leeks, Spring Onions, or Scallions,
Japanese Bunching Onions, Green Shallots,
Or Green Eschalots)

Pendim 3.3 EC may be applied preemergence, postemergence, or split application by ground, air, or chemigation.

Use Methods, Timings and Rates

Uniformly apply 2.4 pints per acre of **Pendim 3.3 EC** as a broadcast spray to the soil surface as preemergence spray or as a postemergence spray to the crop at the 2 to 3 true leaf stage at least 30

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days before harvest. If **Pendim 3.3 EC** is to be applied sequentially as both a preemergence and postemergence spray, the preemergence spray must be applied 30 days prior to the postemergence spray.

Chemigation Applications

Pendim 3.3 EC may be applied through sprinkler irrigation systems. Apply at 2 to 3 true-leaf stage at least 30 days before harvest. **DO NOT** irrigate in excess of 0.5 inch of water. Follow all recommendations, special instructions and precautions in the general section covering Chemigation in Spraying Instructions.

Restrictions and Limitations

- **DO NOT** apply more than 2.4 pints per acre per application.
- **DO NOT** apply more than 4.8 pints per acre per season.
- **DO NOT** apply within 30 days of harvest.
- **DO NOT** feed forage or graze livestock in treated fields.

LENTILS AND PEAS
(English, Dry, Garden, Dwarf,
Green, Pigeon, and Edible Pod)

Pendim 3.3 EC may be applied (fall) preplant surface or preplant incorporated for weed control in lentils and peas.

Use Methods and Timings

Preplant Incorporated- **Pendim 3.3 EC** may be applied 60 days prior to planting up to immediately before planting. After application, rotary hoeing and shallow cultivation/tillage can be practiced without reducing weed control. Avoid tillage that will bring untreated soil to the surface.

Use Rates

Soil Texture	Broadcast Rate pts/A
Coarse	1.8
Medium	2.4
Fine	3.6

Fall Applications - Fall preplant surface and preplant incorporated applications may be made in North Dakota, South Dakota, Minnesota, Oregon, Washington, Montana, Idaho, and Wyoming only. Rainfall or irrigation is required for incorporation and activation. Unpredictable weed control can be expected since factors such as length of time between application and planting as well as uncontrollable weather factors will determine herbicide activity and longevity.

Apply **Pendim 3.3 EC** and incorporate (via rainfall, irrigation or mechanically) in late fall prior to plant one lentils or peas (English, dry, garden, dwarf, green, pigeon, and edible pod) the following spring. Apply **Pendim 3.3 EC** in the late fall when soil temperatures are 45° F or below but before the ground freezes.

DO NOT apply when the air temperature is below 45°F.

Preplant Surface and Preplant Incorporated (Fall Application¹)

Use Rates

Soil Texture	Broadcast Rate pts/A
Coarse	1.2 to 1.8
Medium	1.8 to 2.4
Fine	2.4 to 3.0

¹For use in North Dakota, South Dakota, Minnesota, Oregon, Washington, Montana, Idaho, and Wyoming only.

Restrictions and Limitations

- **DO NOT** apply in California.
- **DO NOT** apply **Pendim 3.3 EC** herbicide preemergence in peas.
- **DO NOT** apply **Pendim 3.3 EC** more than once per cropping season.
- **DO NOT** apply to peas, lentils, pea or lentil forage, pea silage, pea hay, or pea straw grown for livestock feed.
- **DO NOT** apply in any type of irrigation system.
- Any crop registered for a preplant incorporated application of **Pendim 3.3 EC** can be double cropped after peas.

MINT
(Peppermint and Spearmint)

Pendim 3.3 EC may be applied by ground or air.

Use Methods and Timings

Make a single broadcast preemergence application of **Pendim 3.3 EC** to mint at 1.8 pints to 4.8 pints per acre, depending on soil texture (see chart below), to dormant established mint before weed emergence. After a **Pendim 3.3 EC** application, some temporary crop injury may be observed early in the growing season as mint breaks dormancy and begins to grow.

Pendim 3.3 EC will not cause crop injury when applied according to the label under normal growing conditions. Non-uniform application may result in injury to crops, poor stands, or soil residues; conversely, uneven application may reduce weed control. Diseases, cold weather, excessive moisture, deep planting, low or high pH, salinity, or drought may weaken seedlings and plants and make them more susceptible to herbicidal damage.

Use Rates

Soil Texture	Broadcast Rate pts/A
Coarse	1.8 to 2.4
Medium	2.4 to 4.8
Fine	2.4 to 4.8

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Restrictions and Limitations

- **DO NOT** apply Pendim 3.3 EC to "baby" mint in the first year of growth and establishment.
- **DO NOT** apply to mint that has broken dormancy or crop injury may result. Application to mint that is near dormancy break can result in crop injury. Risk of crop injury increases the closer application is to mint dormancy break.
- **DO NOT** apply to mint stands that have been weakened by age, disease, cold weather, excessive moisture, or other factors that reduce crop vigor. Mint growing under stress is more susceptible to herbicidal damage.
- **DO NOT** apply more than 4.8 pints per acre per season.
- **DO NOT** apply within 90 days of harvest.
- **DO NOT** allow livestock to graze on treated spent hay or feed treated spent hay to livestock.
- **DO NOT** apply this product on mint through any type of irrigation system.
- **DO NOT** use in California except as directed in supplemental labeling.

**NON-BEARING FRUIT AND NUT CROPS
And NON-BEARING VINEYARDS**

Pendim 3.3 EC may be applied for preplant incorporated, preplant surface, surface incorporated or preemergence weed control in several nonbearing fruit and nut tree crops and nonbearing vineyards. Pendim 3.3 EC may be used before or after transplanting the following nonbearing crops:

almond	lemon	plum
apple	nectarine	prune
apricot	orange	tangelo
cherry	peach	tangerine
citrus	pear	walnut, English
grape	pecan	
grapefruit	pistachio	

Apply the spray directly to the ground beneath the trees or vines. **DO NOT** apply over the top of trees or vines with leaves or buds. Contacting leaves, shoots, or buds with the spray mixture may cause malformed plant tissue. **DO NOT** apply to newly seeded nursery stock.

FOR NEWLY TRANSPLANTED AND ONE-YEAR-OLD GRAPEVINES:

- Apply only to dormant grapevines.
- **DO NOT** apply if buds have started to swell. Application after buds have started to swell may result in leaf distortion.
- **DO NOT** apply to newly transplanted trees or vines until ground has settled and no cracks are present.

Use Methods, Timings and Rates

Pendim 3.3 EC may be applied by ground, air, chemigation or flooded basin irrigation systems.

Pendim 3.3 EC may be applied either in a single application or sequentially with an interval of 30 days or

more. Apply **Pendim 3.3 EC** at 2.4 to 4.8 quarts per acre (dePendimng on desired length of control, see chart below) per application, but not to exceed a total of 4.8 quarts/A per year in pome, stone and other fruit trees, and not to exceed a total of 7.3 quarts/A per year in citrus, nut trees and grapevines.

Preplant Surface- Prior to transplanting, uniformly apply with ground or aerial equipment. Avoid root contact with treated soil when placing transplants into the hole or injury may occur.

Preplant Incorporated Uniformly apply **Pendim 3.3 EC** herbicide prior to transplanting but before weeds emerge. Application and incorporation must be made prior to transplanting to avoid mechanical injury to the crop. Avoid root contact with treated soil when placing transplants into the hole or injury may occur.

Chemigation Applications

Pendim 3.3 EC may be applied through sprinkler irrigation systems. Follow all recommendations, special instructions and precautions in the general section covering **Chemigation** in **Spraying Instructions**. **DO NOT** apply **Pendim 3.3 EC** treated irrigation water over top of trees or vines with leaves or buds.

Flooded Basin Irrigation Systems

Pendim 3.3 EC may be applied in flooded basin irrigation systems. Follow all recommendations, special instructions and precautions in the general section covering **Flooded Basin Irrigation** in **Spraying Instructions**

Use Rate per Acre

Short-term control	2.4
Long-term control	4.8

Restrictions and Limitations

- **DO NOT** feed forage or graze livestock in treated fields.
- **DO NOT** apply more than 4.8 quarts of **Pendim 3.3 EC** per acre per year in pome, stone and other fruit trees.
- **DO NOT** apply more than 7.3 quarts of **Pendim 3.3 EC** per acre per year in citrus, nut trees and grapevines.

**ONIONS
(Direct-Seeded and Transplanted Dry-Bulb)
and SHALLOTS (Dry-Bulb)**

Pendim 3.3 EC may be applied by ground, air or chemigation.

Chemigation Applications

Pendim 3.3 EC may be applied through sprinkler irrigation systems. Apply between the 2nd and 9th true-leaf stage (2nd to 6th true-leaf stage in California) unless otherwise specified below. **DO NOT** irrigate in excess of 0.5 inch of water. Follow all recommendations, special instructions and precautions in

the general section covering **Chemigation in Spraying Instructions**.

Mineral Soils

Use Rates, Methods and Timing

Soil Texture	Broadcast Rate pts/A
Coarse	1.8
Medium	2.4
Fine	3.6

State-Specific Instructions

In All States Except California:

Apply **Pendim 3.3 EC** as a broadcast treatment when onions or shallots have 2 to 9 true leaves.

Additional Use in Colorado, Kansas, and Nebraska:

Pendim 3.3 EC may be applied sequentially in seeded onions. Apply first application of **Pendim 3.3 EC** at loop stage. Apply sequential application of **Pendim 3.3 EC** early postemergence (2nd to 9th true-leaf stage). **DO NOT** exceed the maximum labeled rate for a given soil texture. **DO NOT** apply **Pendim 3.3 EC** at loop stage through the 9th true-leaf stage if heavy rains are expected, or severe crop injury may result.

Additional Use in Colorado and the High Plains of Texas:

For transplanted onions only, apply and shallow incorporate (less than 2 inches deep) **Pendim 3.3 EC** into preformed beds prior to transplanting.

Additional Use in Idaho, Oregon, and Washington:

Apply **Pendim 3.3 EC** as a broadcast treatment when onions or shallots are between the flag leaf to 9th true-leaf stage.

Pendim 3.3 EC may be used at 3.6 to 4.8 pints per acre for dodder control on medium- and fine-textured soils.

DO NOT apply **Pendim 3.3 EC** using chemigation at the dodder control rate.

Pendim 3.3 EC may be applied in the fall or spring to the furrow area of land bedded in the fall in preparation for planting seed of dry bulb onions the following spring. Apply **Pendim 3.3 EC** as a banded application at rates based on appropriate soil texture. Band width should be approximately 1/2 the width of the row spacing. Keep **Pendim 3.3 EC** away from the area where onion seed will be planted. Harrow-off tops of beds following **Pendim 3.3 EC** furrow applications prior to planting onions. For selective weed control in the onion row, apply **Pendim 3.3 EC** as a banded postemergence application to flag leaf onions at the labeled rates based on soil texture. Apply **Pendim 3.3 EC** only once to the furrow area and once to the onion row as a

postemergence application.

Additional Use in Michigan:

For mineral soils containing >10% organic matter, follow the directions for muck soils (see following).

In California:

Pendim 3.3 EC herbicide may only be applied as a single application when onions or shallots have 2 to 6 true leaves.

Restrictions and Limitations (Mineral Soils)

- **DO NOT** mechanically incorporate except as specified for use on dry bulb onions in Colorado and the Texas High Plains.
- **DO NOT** exceed 3.6 pints per acre per crop (except Idaho, Oregon, and Washington).
- **DO NOT** apply within 60 days of harvest in California and within 45 days of harvest in all other states.
- **DO NOT** feed or graze these crops.
- **DO NOT** apply **Pendim 3.3 EC** preemergence through the loop stage if heavy rains are expected or severe crop injury may result. If irrigating immediately after **Pendim 3.3 EC** application at the preemergence through loop stage, **DO NOT** irrigate in excess of 0.5 inch of water.

Muck Soils

Use Rates, Methods, and Timing

Pendim 3.3 EC may be applied sequentially on muck soils as follows:

Application, Timing and Growth Stage	Rate (pts/A)
Preemergence through Loop Stage	4.8
Early Postemergence (2 nd to 6 th true leaf stage)	4.8
Late Postemergence (6 th to 9 th true-leaf stage)	4.8

Restrictions and Limitations (Muck Soils)

- **DO NOT** apply to muck soils in California.
- **DO NOT** apply within 45 days of harvest.
- **DO NOT** feed or graze these crops.
- **DO NOT** apply more than 14.4 pints per acre per growing season on muck soils. To maximize crop safety, ensure good soil coverage during planting or transplanting and delay preemergence applications to the loop stage, if possible.
- **DO NOT** apply **Pendim 3.3 EC** preemergence through the loop stage if heavy rains are expected or severe crop injury may result. If irrigating immediately after **Pendim 3.3 EC** application at the preemergence through loop stage, **DO NOT** irrigate in excess of 0.5 inch of water.
- **DO NOT** plant sugar beets, red beets, spinach, winter wheat, or winter barley as rotational crops on muck soils for 12 months

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from the time of last application if more than 3.6 pints per acre of **Pendim 3.3 EC** is applied to the onion crop.

- If loss of onion crop occurs, **DO NOT** replant any crop other than onions in muck soil during the same cropping year and **DO NOT** work the soil deeper than 2 inches.

PEANUTS

Pendim 3.3 EC may be applied by ground, air or chemigation.

Pendim 3.3 EC may be applied preplant incorporated in peanuts.

Pendim 3.3 EC may also be applied preemergence to peanuts grown under overhead irrigation.

DO NOT use in California.

Use Methods and Timings

Preplant Incorporated - Apply **Pendim 3.3 EC** up to 60 days prior to planting and incorporate within 7 days after applications.

Preemergence - Apply **Pendim 3.3 EC** at planting or up to 2 days after planting and before crop emergence. To prevent decreased crop pegging, adequate incorporation must be achieved by applying a minimum of 0.75 inch of overhead irrigation or rainfall within 48 hours of application.

Chemigation Applications

Pendim 3.3 EC may be applied through sprinkler irrigation systems. Follow all recommendations, special instructions and precautions in the general section covering **Chemigation** in **Spraying Instructions**.

Use Rates

Region	Rate pts/A
Texas, Oklahoma, New Mexico	1.2 to 2.4
Other peanut growing states*	2.4

*For heavy weed infestations, especially of Texas panicum, up to 3.6 pts/A of **Pendim 3.3 EC** can be used in Alabama, Georgia, or Florida

POTATOES

Pendim 3.3 EC may be applied by ground, air, or chemigation.

Pendim 3.3 EC may be applied preemergence, preemergence incorporated, or early postemergence in potatoes.

Additional Weeds Controlled: In addition to the weeds listed in Table 1, **Pendim 3.3 EC** will control stinging nettle in potatoes.

Use Methods and Timings

Preemergence - Apply **Pendim 3.3 EC** after planting, but before potatoes and weeds emerge, or after dragoff

Preemergence Incorporated - Apply **Pendim 3.3 EC** and incorporate after planting but before potatoes and weeds emerge. Where dragoff is practiced, apply **Pendim 3.3 EC** and incorporate before, at, or after dragoff, but before potatoes and weeds emerge. Incorporate **Pendim 3.3 EC** within 7 days of application. **Pendim 3.3 EC** must be thoroughly and uniformly incorporated into the top 1 to 2 inches of soil. Mechanical incorporation is not required if adequate rainfall for good crop and weed emergence occurs or irrigation is received within 7 days after application. Care must be taken so that incorporation equipment does not damage seed pieces or elongating sprouts.

Early Postemergence - Apply **Pendim 3.3 EC herbicide** from crop emergence to the 6-inch stage of growth. **DO NOT** apply **Pendim 3.3 EC** postemergence if potatoes are under stress from cold/wet or hot/dry conditions or crop injury may occur.

Chemigation Applications

Pendim 3.3 EC may be applied through sprinkler irrigation systems. Apply **Pendim 3.3 EC** preemergence after planting, after dragoff, or early postemergence through sprinkler irrigation systems. Follow all recommendations, special instructions and precautions in the general section covering **Chemigation** in **Spraying Instructions**.

Use Rates

Soil Texture	<3.0% Organic Matter >3.0% (pts/A)	
	Coarse	1.8
Medium	2.4	3.6
Fine	3.6	3.6

Restrictions and Limitations

- **DO NOT** apply to sweet potatoes or yams.
- **DO NOT** apply preplant.
- **DO NOT** make more than one application of **Pendim 3.3 EC** per season.
- Application of **Pendim 3.3 EC** on White Rose variety potatoes during or followed by cool and/or wet weather conditions may result in crop injury.

RICE

Pendim 3.3 EC may be applied as a pre-flood, preemergence application in dry-seeded or drilled rice or as a delayed preemergence application in drilled dry-seeded rice or as an early postemergence application in dry-seeded rice. Treatments may be applied to conventional, reduced or minimum tillage, and no-till (stale seedbed) rice. The seedbed should be firm and free of clods and must be prepared to

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allow for good seed coverage. The use of a planter under conditions that do not allow good soil coverage of the rice seed can result in reduced stand or stunting if Pendim 3.3 EC contacts germinating rice seed.

Additional Weeds Controlled: In addition to the weeds listed in Table 1, **Pendim 3.3 EC** will control the following weeds in rice:
junglerice and sprangletop.

Use Methods and Timings

Pre-Flood. Preemergence - Pendim 3.3 EC may be applied for preemergence weed control as a pre-flood, pre-rice germination herbicide in lightly incorporated dry-seeded rice or on drilled rice.

SEEDING DIRECTIONS: For all rice seed incorporation methods, seed must be incorporated shallowly or no more than 1 inch below soil surface. Seed left on the surface may be injured or killed by **Pendim 3.3 EC**. **However, it is recommended that 15 to 20% of seed total be visible at surface in order to ensure that seed is not covered too deeply.** Seeding rates should be increased by a percentage corresponding to the amount of seed left on the surface. Adjust seeding rates to meet individual practices, incorporation depths and field conditions.

EXAMPLE: Target seeding rate is 150 lbs per acre. If approximately 15% of seed is left on soil surface, seeding rate should then be increased 22.5 lbs per acre to 177.5 lbs per acre.

Seeding depths can be affected by soil textures, tillage practices, irrigation, and methods of mechanical incorporation. Seed that is incorporated either mechanically and/or by irrigation flush must remain at a shallow depth of no more than 1 inch below the soil surface. Fields where rice seed is incorporated too deeply will experience reduced crop stands.

Following are examples of typical implements that can be used for rice seed incorporation: rice roller/ridger, ring roller, light harrow, or flat roller. Regardless of the implement or method of incorporation used, seed incorporation must be less than 1 inch below the soil surface.

After rice seed is incorporated, uniformly apply to soil surface as broadcast spray the tank mixture of **Pendim 3.3 EC** at 2.4 pints per acre plus **FirstChoice® SafeGuard™ spray adjuvant** at 1.6 pints per acre. Use of **Pendim 3.3 EC** without tank mixing with **First Choice Safe Guard spray adjuvant** can result in crop injury and loss of rice stand.

After herbicide application, flush field with irrigation water with method best employed to facilitate a thorough soaking of field and a rapid drain. Tail water (runoff water) from flood irrigation that contains **Pendim 3.3 EC** should be re-circulated and contained in the field of initial application used only on adjacent crops for

which **Pendim 3.3 EC** (or other PENDIMethalin-based products) is registered for use.

Rice seed covered with water for longer than 8 days may result in reduced stand and weed control.

Delayed Preemergence - Apply **Pendim 3.3 EC** alone or with tank mix partner for delayed preemergence weed control in grain-drilled, dry-seeded rice. Apply **Pendim 3.3 EC** alone or in tank mixture to levees after the levees are pulled and planted. Exposed seeds that come in contact with **Pendim 3.3 EC** may be injured. Apply only when growing conditions favor vigorous rice growth. The seedbed should have adequate moisture for seed germination. Not for use in California.

Uniformly apply the recommended rate of **Pendim 3.3 EC** after rice planting and before rice and weed emergence (spiking). 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 of 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 (radicle) or shoot at least 1/2-inch long. If there is insufficient moisture, flushing is recommended before **Pendim 3.3 EC herbicide** application to supply moisture for root (radicle) initiation and for vigorous rice and weed growth.

If applied to soil prior to these conditions or to cracked soil, stand reduction or stunting of rice may occur. 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.

Due to the residual activity of **Pendim 3.3 EC**, 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 **Pendim 3.3 EC**.

Early Postemergence - Apply **Pendim 3.3 EC** as a tank mix partner. Base applications on weed and crop size guidelines of the tank mix partner. DO NOT apply to fields with standing water. If necessary, fields may be flushed prior to treatment to produce vigorous rice and weed growth¹. Since soil and weeds must be completely exposed to spray coverage, no flood water should be on the field at the 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.

Because of residual activity of **Pendim 3.3 EC**, 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 **Pendim 3.3 EC**.

Since the residual activity of Pendim 3.3 EC is activated by moisture, Pendim 3.3 EC is most effective in controlling emerging weeds when adequate rainfall or irrigation (flush) is received within 7 days after application.

Use Rates

Delayed Preemergence Applications

Soil Texture	Rate (pt/A)
Sandy, loamy sands	DO NOT USE
Sandy loams	1.8
Loams, silt loams, silts, sandy clay loams	2.4
Silty clay loams, clay loams, sandy clays, silty clays, clays	2.4

Early Postemergence Application

Soil Texture	Rate (pt/A)
Coarse	1.8
Medium	2.4
Fine	2.4

Restrictions and Limitations

- **DO NOT** apply **Pendim 3.3 EC** as a pre-flood, preemergence treatment in rice unless tank mixed with **FirstChoice® SafeGuard™ spray adjuvant**.
- **DO NOT** apply **Pendim 3.3 EC** through any type of irrigation system.
- **DO NOT** apply in liquid fertilizer.
- **DO NOT** use on water-seeded rice except as specified in other REPAR labeling.
- **DO NOT** apply to rice fields if fields are used for fish production, especially catfish or crayfish farming.
- **DO NOT** use water containing **Pendim 3.3 EC** residues from rice cultivation to irrigate food or feed crops that are not registered for use with **Pendim 3.3 EC**.
- In case of a crop failure due to weather conditions or disease following treatment with **Pendim 3.3 EC** alone or in a 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 **Pendim 3.3 EC** contacts germinating rice seed. **DO NOT** replant with gibberellic acid-treated seed. **DO NOT** reapply **Pendim 3.3 EC** alone or in a tank mixture.
- **DO NOT** apply **Pendim 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.
- **DO NOT** feed forage or graze livestock in treated fields.

SOYBEANS

Pendim 3.3 EC may be applied in conventional, minimum, or no-till as a fall surface, fall incorporated, preplants surface, preplant incorporated, or preemergence application in soybeans.

Additional Weeds Controlled: In addition to the weeds listed in Table 1, Pendim 3.3 EC will control or reduce competition from the following weeds in soybeans: itchgrass and red rice. For specific rates for red rice and itchgrass management, see table at end of this section.

Use Methods and Timings

Fall Applied - Pendim 3.3 EC herbicide may be surface applied or incorporated in the fall, after fall harvest and prior to ground freeze in states north of 1-80 and the entire states of Iowa, Illinois, Indiana, Kansas, Kentucky, Missouri, Nebraska, Ohio, Oklahoma, and Texas. Fall applications of **Pendim 3.3 EC** will not provide season-long weed control.

Preplant Surface - Apply **Pendim 3.3 EC** up to 15 days prior to planting. **Pendim 3.3 EC** may be applied up to 45 days prior to planting when used in a tank mix or applied sequentially with **Extreme®, Raptor®, or Pursuit® herbicides**. Apply **Pendim 3.3 EC** tank mixes and sequential programs as specified under the tank mix section.

Preplant Incorporated - Apply **Pendim 3.3 EC** up to 60 days prior to planting and incorporate within 7 days after application.

Preemergence - Apply **Pendim 3.3 EC** at planting or up to 2 days after planting. Apply to a firm seedbed free of clods.

DO NOT make applications of **Pendim 3.3 EC** preemergence north of Interstate 80, except in the states of Indiana, Michigan and Ohio, or as specified in BASF supplemental labeling.

Use Rates

**Fall Surface, Fall Incorporated,
Preplant Surface or Preplant Incorporated**

Soil Texture	<3.0% Organic Matter >3.0% (pts/A)	
	<3.0%	>3.0%
Coarse	1.8	2.4
Medium	3.0 ¹	3.0
Fine ²	3.6	3.6
¹ DO NOT exceed 2.1pts for southern states; See Restrictions and Limitations for map of specific states.		
² For heavy clay soils, apply Pendim 3.3 EC at the broadcast rate of 3.6 pints/A		

Preemergence Applications

Soil Texture	<3.0% Organic Matter >3.0% (pts/A)	
	<3.0%	>3.0%
Coarse	1.8	1.8
Medium	2.4	2.4
Fine	2.4	3.0

**Preplant Incorporated Applications
for Red Rice Control and Itchgrass Suppression**

	Up to 3% Organic Matter ¹
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Soil Texture	pts/A
Coarse	3.6
Medium	3.6
Fine	4.8

This use is not recommended for soils with more than 3% organic matter

Restrictions and Limitations

- **DO NOT APPLY POSTEMERGENCE** or serious crop injury can result.
- **DO NOT** use **Pendim 3.3 EC** in soybeans in California.
- Livestock can graze or be fed forage from treated soybean fields.
- **DO NOT** apply within 85 days of harvest.
- **DO NOT** exceed one application per crop season at the highest rate per acre for any given soil type and application method

STRAWBERRY

Pendim 3.3 EC may be applied by ground, air, or chemigation.

Use Methods and Timings

Stunting, reduced growth, or reduction in daughter plants may occur with this use. Uniformly apply 1.8 to 3.6 pints per acre of **Pendim 3.3 EC** as a broadcast spray to the soil surface at pre-transplant time. A second application of 1.8 to 3.6 pints per acre of **Pendim 3.3 EC** may be applied in a band to the soil between crop rows 35 days before harvest, but **DO NOT CONCENTRATE THE RATE** per acre into the treated area and **DO NOT** allow spray to contact strawberry plants. The second application rate is based on per unit of treated area.

Chemigation Applications

Pendim 3.3 EC may be applied through sprinkler irrigation systems. Follow all recommendations, special instructions and precautions in the general section covering **Chemigation in Spraying Instructions**. **DO NOT** allow **Pendim 3.3 EC** – treated irrigation water to contact strawberry plants.

Use Rates

Soil Texture	Broadcast Rate pts/A
Coarse	1.8
Medium	2.4 to 3.0
Fine	3.0 to 3.6

Restrictions and Limitations

- **DO NOT** apply more than 3.6 pints per acre per application.
- **DO NOT** apply more than 7.2 pints per acre per season.
- **DO NOT** apply within 35 days of harvest.
- **DO NOT** feed forage or graze livestock in treated fields.
- **DO NOT** apply if row is to later be covered with plastic.

SUGARCANE

Use Methods and Timings

Pendim 3.3 EC may be applied preemergence through layby to plant or ratoon sugarcane. Applications may be made band or broadcast. Although there may be adequate crop tolerance for postemergence applications at layby, the spray must be directed under the sugarcane canopy in order to obtain effective weed control.

Pendim 3.3 EC herbicide must be thoroughly and uniformly incorporated into the soil with either (a) mechanical incorporation equipment as outlined below, or (b) with rainfall or irrigation, if rainfall or irrigation is adequate for good crop and weed emergence and received within 7 days after application. If rainfall or irrigation is not obtained, **Pendim 3.3 EC** should be mechanically incorporated.

Mechanical Incorporation

Pendim 3.3 EC should be applied to loosened beds and incorporated into the top 1 to 2 inches of soil within 7 days after application.

Use Rates

Use Area	Broadcast Rate ¹ pts/A
All states, except Hawaii	4.8 to 7.2
Muck soils (Florida only)	4.8 to 9.7
Hawaii	4.8 to 9.7

¹Use the high rate if: clay soils; no mechanical incorporation is planned; heavy weed populations are anticipated; itchgrass infestation is anticipated; shaving is planned.

Restrictions and Limitations

- **DO NOT** exceed 14.4 pints of **Pendim 3.3 EC** per acre in one growing season.
- **DO NOT** use less than 11 gallons of water as a carrier when applying **Pendim 3.3 EC** for weed control.
- Ratoon sugarcane must be lightly shaved in early spring to remove the old stubble before incorporation over the line of sugarcane is possible. Carefully adjust equipment to incorporate without causing excessive damage to emerging shoots.
- **DO NOT** make aerial applications at close-in because complete and uniform coverage cannot be obtained.
- **DO NOT** apply through any type of irrigation system.
- **DO NOT** apply within 90 days of harvest.
- **DO NOT** graze treated fields or feed treated forage or fodder to livestock.

SUNFLOWERS

Pendim 3.3 EC may be applied preplant incorporated in all states. Fall preplant incorporated applications may be made in North Dakota, South Dakota and Minnesota only. **Pendim 3.3 EC** may be applied preemergence in conventional tillage sunflowers, except in the state of California.

Plant sunflowers 1.5 inches to 2 inches deep and completely cover with soil.

Use Methods and Timings

Preplant Incorporated (Spring) - Apply up to 60 days prior to planting and incorporate within 7 days after application.

Preplant Incorporated (Fall applications in North Dakota, South Dakota and Minnesota) -

Apply **Pendim 3.3 EC** and immediately incorporate in late fall prior to planting sunflowers the following spring. Apply **Pendim 3.3 EC** in the late fall when soil temperatures are 45° F or below but before the ground freezes. **DO NOT** apply when the air temperature is below 45°F.

Prior to sunflower planting in the spring, fields treated with **Pendim 3.3 EC** should receive at least one shallow additional incorporation. Spring incorporation should be at an angle to the last tillage operation.

Preemergence - Apply **Pendim 3.3 EC** at planting or up to 2 days after planting. Preemergence applications of **Pendim 3.3 EC** to sunflowers may increase the likelihood of crop injury, especially when sunflowers are grown in stress situations, such as compacted soils. Decreased herbicide performance compared to preplant incorporated applications may also result from a preemergence application. If dry conditions with limited precipitation exist or unseasonably cool temperatures following planting are forecast, apply **Pendim 3.3 EC** prior to planting and mechanically incorporate with tillage.

Use Rates

Preplant Incorporated (Spring) or Preemergence (Conventional Tillage)

Soil Texture	Southern States ¹	Northern States	
		<3.0% Organic Matter	>3.0% Organic Matter
		pts/A	
Coarse	1.8	2.4	2.4
Medium	2.4	3.0	3.6
Fine	3.6	3.6	3.6

¹See **Restrictions and Limitations** for map of specific states

Preplant Incorporated (Fall) Application¹

Soil Texture	<3.0% Organic Matter >3.0% Organic Matter (pts/A)	
Coarse	3.0	3.0
Medium	3.6	4.2
Fine	4.2	4.4

¹For use in North Dakota, South Dakota, and Minnesota

NO-TILL SUNFLOWERS

Pendim 3.3 EC may be applied at 3.6 pints per acre up to 30 days before planting (preplant) to immediately after

planting (preemergence).

Pendim 3.3 EC is most effective in compiling weeds when adequate rainfall or overhead irrigation is received within 7 days after application.

Restrictions and Limitations (all tillage types)

- **DO NOT** apply **Pendim 3.3 EC** postemergence.
- **DO NOT** feed forage or graze livestock in treated sunflower fields.
- **DO NOT** use in California

TOBACCO

Pendim 3.3 EC herbicide may be applied preplant incorporated or as a layby application in transplanted tobacco.

Use Methods and Timings

Preplant Incorporated- Apply **Pendim 3.3 EC** with ground sprayer up to 60 days prior to transferring tobacco and incorporate within 7 days after application.

Applied according to directions and under normal growing conditions, **Pendim 3.3 EC** will not harm transplanted tobacco. Under stress conditions for plant growth such as cold/wet or hot/dry weather, **Pendim 3.3 EC** can produce a temporary retardation of tobacco development.

Layby – **Pendim 3.3 EC** may be applied as a directed spray following the last normal cultivation (layby), usually 4 to 6 weeks after transplanting tobacco. Apply **Pendim 3.3 EC** in a 16- to 24- inch band between the crop rows. The spray should not contact tobacco plants.

Use Rates

Preplant Incorporated Application

Use Area	Soil Texture	Rate (pts/A)
Florida	Coarse	2.4
Georgia	Medium sandy clay loams, loam	2.4
Maryland		
North Carolina	silt loams, silts	3.0
South Carolina		
Virginia	Fine	3.0
Other states	Coarse	2.4
	Medium	3.6
	Fine	3.6

Layby Application

Soil Texture	Broadcast Rate pts/A
Coarse	1.8
Medium	2.4
Fine	2.4

Restrictions and Limitations

- **DO NOT** apply as a broadcast spray as contact may cause malformed tobacco leaves.

WHEAT

Pendim 3.3 EC may be applied by ground or air.

Pendim 3.3 EC may be applied preemergence, delayed preemergence, or postemergence to wheat for weed control in fall, winter or spring seeded wheat.

Use Methods and Timings

Apply to a seedbed that is firm and free of clods and trash. The seedbed **MUST** be prepared to ensure good seed coverage by the soil and seed-to-soil contact. Use high quality seed. When applications of **Pendim 3.3 EC** are intended to be made preemergence or delayed preemergence, plant seed at least 1 inch deep to avoid possible crop injury, but not too deep for proper germination. When applications of **Pendim 3.3 EC** are intended to be made postemergence, plant seed at least 0.5 inch to 1.0 inch to avoid crop injury.

Uniformly apply **Pendim 3.3 EC** as a preemergence, or delayed preemergence (after wheat seed has germinated), or postemergence treatment from the 1st – leaf stage of wheat until before the flag leaf is visible/emerged for weed control. **Pendim 3.3 EC** should be applied prior to weed emergence. **EMERGED WEEDS WILL NOT BE CONTROLLED BY THIS TREATMENT.** Adequate rainfall or irrigation within 7 days after application will provide the most consistent weed control.

For control of established weeds, **Pendim 3.3 EC** may be tank mixed with any postemergence herbicide registered for use in wheat. **Pendim 3.3 EC** will provide residual control of the weeds listed in this label. Always perform a mixing test to check the compatibility of **Pendim 3.3 EC** with all potential tank mix partners.

Use Rates

Soil Texture	Southern States ¹ pts/A	Northern States ¹ pts/A
Coarse	1.8 to 2.4	1.8
Medium	1.8 to 3.6	3.0
Fine	2.4 to 3.6	2.4 to 3.6
¹ See Use Area map in Restrictions and Limitations		

Restrictions and Limitations

- **DO NOT** apply more than 3.6 pints per season.
- **NOTE:** If loss of grain crop occurs, any crop registered for **Pendim 3.3 EC** preplant incorporated use may be replanted the same year without adverse effect.
- **DO NOT** replant wheat.
- **DO NOT** apply **Pendim 3.3 EC** within 60 days of harvest of wheat grain or straw.
- **DO NOT** apply **Pendim 3.3 EC** within 28 days of harvest of wheat hay.
- **DO NOT** apply **Pendim 3.3 EC** within 11 days of harvest of wheat forage.

CONDITIONS OF SALE AND WARRENTY

The **DIRECTIONS FOR USE** of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and must be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of REPAR CORPORATION (REPAR) or the Seller. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer.

REPAR warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Direction For Use**, subject to the inherent risks, referred to above.

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