



### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

OCT 19 2011

Sherry B. Hutcheson Phoenix Environmental Care LLC P.O. Box 370 Valdosta, GA 31603-0370

Subject: Notification per PR Notice 2007-4: Update Container Disposal Instructions

Knighthawk

EPA Reg. No. 81943-19

Application Dated: September 28, 2011

Dear Ms. Hutcheson:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice 2007-4 for the subject product.

The Registration Division (RD) has conducted a review of this request for its applicability under PRN 2007-4 and finds that the actions requested falls within the scope of this notice. The label submitted with the application has been date-stamped "Notification" and will be placed in our records.

If you have any questions regarding this letter, please feel free to contact Maggie Rudick at (703) 347-0257 or rudick.maggie@epa.gov.

Sincerely,

Kathryn Montague, Product Manager 23

Herbicide Branch

Registration Division (7505P)

A EDA	ι	Inited States		☐ Regi	stration	OPP Identifier Number
EPA Em	vironmen	tal Protection	n Agency	/	ndment	
	Wash	ington, DC 2046	30	⊠ Othe	er: Notification	
		Applicatio	n for Pe	sticide - Sec	tion I	
1. Company/Product Number 8194319				Product Manager n Montague		Proposed Classification
Company/Product (Name)     Knighthawk			PM# 23	· montagae		None Restricted
Name and Address of Applicant (A)	Include ZIP	Code)		edited Review	In accordance	with FIFRA Section 3(c)(3)
Phoenix Environmental Car	e LLC					in composition and labeling
PO Box 370			to:	N-		
Valdosta, GA 31603-0370			EPAR	eg. No		
Check if this is a new a	ddress			t Name		
			Section	on - II		
Amendment – Explain below.				Final printed	labels in response	THE CAPTE ON THE
Resubmission in response to A	Agency letter	dated		We Too Ap	plication	
Notification - Explain below.  Explanation: Use additiona	l page(a) :	f naccessary (	For Costi	Other - Exp		CT 1 9 2011
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This notification is consistent w	ith the pro	visions of PR No	otice 2007	-4, PR Notice 98	-10 and EPA regul	lation 40 CFR 156.10, 156.140,
						fidential statement of formula of
this product. I understand that i						
that if this notification is not con						
156.145, 156.156 and 152.46, t		may be in viola	tion of FI	FRA and I may b	e subject to enforc	ement action and penalties
under sections 12 and 14 of FIF	RA.					
			Section	n - III		
Material This Product Will Be Pa Child-Resistant Packaging		ckaging		Water Soluble	Packaging	Type of Container
Yes*	☐ Ye		Water Soluble Packaging Yes		Metal	
No No	⊠ N			⊠ No		Plastic
Z 140	If "Yes"		o. per	If "Yes"	No. per	Glass
*Certification must	Unit Pa	ckaging wgt. co	ntainer	Package wgt.	container	Paper
be submitted						Other (Specify)
3. Location of Net Contents Informa	ation	4. Size(s) Re	etail Contain	er		of Label Directions
Label Con	tainer				On Labe	el
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6. Manner in Which Label is Affixed	d to Product	☐ Lithograp ☐ Paper gl		Other		
		Stenciled				
			Sectio	n - IV		
1. Contact Point (Complete items di	irectly below	for identification of	of individual	to be contacted, if	necessary, to proces	ss this application)
Name		Title			cel	Telephone No. (Include Area
Sherry B. Hutcheson		Di	irector, R	egulatory Affairs	5	Cede) 229-245-8856
		Certification	n			6. Date Application
I certify that the statements I have r acknowledge that any knowingly fal	made on this se or mislea	form and all attac ding statement ma	chments the ay be punis	reto are true, accur hable by fine or imp	rate and complete. It prisonment or both	Received (Stamped)
under applicable law.  2. Signature		3	Title		cci	C
1 111				egulatory Affairs	S	(((((
They &	-					( ( ( )
4. Typed Name () Sherry B. Hutcheson			Date 9/28/2011			
Offerry D. Hutchesoff						

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September 28, 2011

Document Processing Desk (NOTIF) Office of Pesticide Programs (7504P) U.S. Environmental Protection Agency 1200 Pennsylvania Avenue, NW Washington, DC 20460-0001

Attn: Emily Hartman

Subject: Resubmission of label for Knighthawk (EPA Reg. No. 81943-19)

Dear Ms. Hartman,

Phoenix Environmental Care, LLC is resubmitting through notification the following label changes for Knighthawk.

- Update in the storage and disposal statements per PR Notice 2007-4.
- Minor labeling changes as highlighted in the text.

In addition to this transmittal letter, we are supplying:

- EPA form 8570-1, application form
- Certification with Respect to Label Integrity
- Copy of EPA's letter dated September 13, 2011.
- One clearly marked copy highlighted/underlined with the proposed changes and those changes requested as per EPA's letter.
- clean copies of the proposed label for Knighthawk.
- One CD with the clean copy of the label.

If you have any questions, please feel free to contact me at either 229-245-8856 or <a href="mailto:sherry.hutcheson@phoenixenvcare.com">sherry.hutcheson@phoenixenvcare.com</a>.

Best regards,

Sherry B. Hutcheson

Director, Regulatory Affairs

**Enclosures** 

## NOTIFICATION OCT 19 2011

Active Ingredient:

Notification PR Notice 2007-4 Marked Copy; Rev 2.

By Wt.

# Knighthawk Draft Label September 14, 2011

#### Knighthawk Herbicide

For preemergence control of grass and broadleaf weeds in: Established turfgrasses (excluding golf course putting greens), lawns and sod nurseries; Landscape ornamentals in nurseries or in established plantings; Established perennials and wildflower plantings; Plants grown for cut foliage production (Florida only); Conifer and hardwood tree seedling nurseries; Christmas tree farms; Managed transportation and utility rights-of-way, including rail and equipment yards, and public utility facilities (substations, tank farms, pumping stations, parking/storage areas, ungrazed fencerows).

Prodiamine (CAS No. 29091-21-2)	
KEEP OUT OF	F REACH OF CHILDREN
	CAUTION
Si usted no entiende la etiqueta, busque a ala	guien para que se la explique a usted en detalle. (If you do not
understand the label, find someone to explain	
	FIRST AID
If swallowed:	Call a poison control center or doctor
	immediately for treatment advice.
	<ul> <li>Have person sip a glass of water if able to swallow.</li> </ul>
	Do not induce vomiting unless told by the
	poison control center or doctor.
	<ul> <li>Do not give anything by mouth to an</li> </ul>
	unconscious person.
If on skin or clothing:	<ul> <li>Take off contaminated clothing.</li> </ul>
	Rinse skin immediately with plenty of water for
	15-20 minutes.
	<ul> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
If in eyes:	Hold eye open and rinse slowly and gently with
	water 15-20 minutes.
	<ul> <li>Remove contact lenses, if present, after the first</li> </ul>
	5 minutes, then continuing rinsing eye.
	Call a poison control center or doctor for
If inhaled:	treatment advice.
II lillaled.	<ul> <li>Move person to fresh air.</li> <li>If person is not breathing, call 911 of an end.</li> </ul>
	ambulance, then give artificial respiration,
	preferably mouth-to-mouth if oossible.
	Call a poison control center or doctor for
	further treatment advice.
	n you when calling a poison control center or doctor, or going for volving this product, call toll free 1-888-874-1724.
Net C	ontents:lbs.
Phoenix Environmental Care, LLC	EPA Reg. No. 81943-19
P.O. Box 370 • Valdosta, GA 31603-0370	EPA Est. No.:

P.O. Box 370 • Valdosta, GA 31603-0370

Knighthawk Draft Label Notification PR Notice 2007-4 Marked Copy; Rev 2. September 14, 2011

# PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Causes moderate eye irritation. Harmful if inhaled or absorbed through the skin. Avoid contact with skin, eyes, or clothing. Avoid breathing dust. Wear long sleeved shirt and long pants, socks and chemical resistant gloves. Prolonged or frequently repeated skin contact, while mixing or handling the concentrated material, may cause allergic reactions in some individuals.

#### PERSONAL PROTECTIVE EQUIPMENT

#### WPS USES:

Mixers, loaders and applicators and other persons who handle this pesticide for any use covered by the Worker Protection Standard (40 CFR part 170) – in general, agricultural-plant uses are covered – must wear:

- Long-sleeved shirt and long pants
- Chemical resistant gloves, such as butyl rubber >I4 mils, or neoprene rubber > 14 mils, or nitrile rubber >14 mils (See instructions for Category A on the EPA chemical resistance category selection chart B you want other options.)
- Shoes plus socks

#### **NON-WPS USES:**

Mixers and loaders who handle this pesticide for any use NOT covered by the Worker Protection Standard (40 CFR part 170) – in general, only agricultural-plant uses are covered by the WPS – must wear:

· Waterproof gloves

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 CONTROL STATEMENTS

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

#### **User Safety Recommendations**

#### Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- After handling this product, immediately wash the outside of gloves before removing them, then
  remove gloves and all other PPE. Immediately wash thoroughly
- · and change into clean clothing.

#### **ENVIRONMENTAL HAZARDS**

This product has low solubility in water. At the limit of solubility, this product is not toxic to fish. However, at concentrations substantially above the level of water solubility, it may be toxic to fish. Do not apply directly to water, 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 wash water.

Knighthawk Draft Label Notification PR Notice 2007-4 Marked Copy; Rev 2. September 14, 2011

#### DIRECTIONS FOR USE

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

#### AGRICULTURAL USE REQUIREMENTS

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

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

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

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

- · Coveralls
- · Waterproof gloves
- · Shoes plus socks

#### WHERE TO USE

Knighthawk is a preemergence herbicide that provides residual control of many grass and broadleaf weeds in:

- Established turfgrasses (excluding golf course putting greens), lawns and sod nurseries
- Landscape ornamentals in nurseries or in established plantings
- Established perennials and wildflower plantings
- Plants grown for cut foliage production (Florida only)
- Conifer and hardwood tree seedling nurseries
- Christmas tree farms
- Managed transportation and utility rights-of-way, including rail and equipment yards, and public
  utility facilities (substations, tank farms, pumping stations,parking/storage areas, ungrazed
  fencerows)

#### HOW KNIGHTHAWK WORKS

Knighthawk controls susceptible weeds by preventing growth and development of newly germinated weed seeds. Weed control is most effective with Knighthawk is activated by at least 0.5 inch of rainfall or irrigation or shallow incorporation (1 to 2 inches) before weed seeds germinate and within 14 days following application.

#### NON-AGRICULTURAL USE REQUIREMENTS

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

Entry Restrictions for Non-WPS Uses: Keep all persons, children and pets out of treated area until sprays have dried.

#### **USE PRECAUTIONS**

- 1. Do not graze or feed livestock forage cut from areas treated with Knighthawk.
- 2. Follow all applicable directions, restrictions, and precautions on the labels of EPA-registered tank mix partners.
- 3. Do not blend Knighthawk onto dry fertilizer or any other granular material.
- 4. Chemigation: Do not apply this product through any type of irrigation system unless instructed otherwise in this label.
- 5. Do not apply aerially.
- 6. Do not apply to golf course putting greens.

#### MIXING AND APPLICATION

#### Mixing

Knighthawk must be mixed thoroughly in the spray tank to ensure uniform application. Follow these steps:

- 1. Fill the spray tank 1/4 full with clean water or fluid fertilizer only.
- 2. Start agitation and check to ensure it is working properly.
- 3. Add Knighthawk directly into the tank.
- 4. Add the rest of the carrier to obtain the final spray volume.
- A spray colorant may be used with Knighthawk to mark areas as they are treated. This will improve application accuracy by minimizing swath skips and overlaps.
- 6. Maintain vigorous agitation in the spray tank before and during the application. This will ensure a well-mixed spray suspension.
- Do not allow spray suspension to dry in the tank. Thoroughly clean the sprayer after use by flushing
  the system with water containing a detergent. Refer to the Pesticide Disposal section of this label for
  waste disposal.

#### **Tank Mixing Knighthawk**

Knighthawk may be tank mixed with certain other EPA-registered herbicides to provide a broader spectrum of weed control or to control emerged weeds. Refer to the specific directions for use for tank mix partners, and consult the label(s) of the individual tank mix partners(s) for use rate, application timing, weeds controlled, and specific precautions and/or restrictions. Tank mixes are permitted only in states where the tank mix partners(s) are registered for the application site and the turf and ornamental species listed. When using Knighthawk in a tank mixture with other pesticides, poserve the most restrictive label limitations and precautions on the labels of the products used.

Before tank mixing pesticides, it is advisable to test compatibility by mixing the products in a small container first. See the Compatibility Test section.

#### **Compatibility Test**

Before mixing Knighthawk with other pesticides in the spray tank, test the compatibility by mixing all components (carrier and pesticide products) in a small container in proportionate quantities. For example, a 1-qt. Jar would be 1/100 the volume of a 25 gals./A spray rate. At 1 lb./A the Knighthawk rate would be

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proportional to 4.5 g per qt. Add approximately 1.5 teaspoons to a qt. of water. Calculate amounts for the other products based on rate per acre. An approximate volume would be 1.5 teaspoons for each lb./A of a dry formulation and 0.5 teaspoons for each pt./A of a liquid formulation. (See following table.)

Amount of Component to Add to One quart Jar of Spray Carrier (Assuming Carrier Volume of 25 gals./A)

Component		Level Teaspoons	
Formulations	Acre	1,000 sq. ft.	
Knighthawk	1.0 lb.	0.4 oz.	1.5
Dry tank mix partners	1.0 lb.	0.4 oz.	1.5
Liquid tank mix partners	1.0 pt.	0.4 oz.	0.5

If components do not ball-up or form flakes, sludge, gels, oily films or layers, then the mixture is compatible. Incompatibility will usually occur within 5 minutes after mixing. If the components are not compatible, use a compatibility agent and rerun the test to determine if the mixture is suitable. If components are still not compatible, do not tank mix.

#### **Mixing Order for Tank Mixtures**

Notes: (1) When mixing Knighthawk with other components (carrier and partner pesticide products), allow products to completely dissolve between steps. This is key when tank mixing with ester formulations. (2) Maintain agitation throughout mixing and application of the mixture.

#### Add the products to the spray tank in the following order:

- Add products packaged in water-soluble bags first. Agitate the tank mixture. Allow the water-soluble bags to completely dissolve and the product to disperse before adding any other tank mix partner.
- Then add water-dispersible granules (WDG or WG formulations) and wettable powders (WP formulations). Add wettable powders to the tank as agitation continues. Allow the product to disperse completely before other products are added.
- 3. Add spray adjuvants and spray markers. Read the adjuvant's label first and use only those adjuvants approved for application to turf and ornamentals.
- 4. Add flowable liquids (FL) or suspension concentrates (SC).
- 5. Add emulsifiable concentrates (EC) last.

#### Application

Apply Knighthawk in a minimum of 20 gals/A (0.5 gal./1,000 sq. ft.) of carrier (water and/or fluid fertilizer) using a calibrated, low-pressure sprayer with 50-mesh or coarser screens. A broadcast boom or handheld wand designed for herbicide or insecticide application will provide the best results. Select nozzle pressure and gallonage to provide complete coverage.

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#### **Weeds Controlled**

When used as directed in this label, Knighthawk will control the following weeds:

Barnyardgrass	Goosegrass 5/	Purslane, common
Bluegrass, annual (Poa annua) 1/	Henbit 2/	Pusley, Florida
Carpet weed	Itchgrass	Rescuegrass 4/
Chickweed, common 2/	Johnsongrass (from seed)	Shepherds purse 2/
Chickweed, mouseear (from seed)	Junglerice	Signalgrass, broadleaf
Crabgrass (Large, Smooth) 3/	Knotweed 2/	Speedwell, Persian
Crowfootgrass	Kochia	Sprangletop
Cupgrass, woolly	Lambsquarter, common	Spurge, prostrate
Foxtails, annual	Lovegrass	Witchgrass
Pigweed	Panicum (Texas, Fall, Browntop)	Woodsorrel, yellow (from seed)

<sup>1</sup>In areas where Poa annua is a winter annual, apply Knighthawk in August or September to established, non-overseeded turf before Poa annua seeds germinate. These timings are approximate. Consult State Extension Service for more specific timing for your area. Also see the section of this label Poa Annua Control in Established Bermudagrass Overseeded with Perennial Ryegrass (AZ, CA, NV, and TX only).

<sup>2</sup>To control this weed, apply Knighthawk in late summer, fall, or winter before weed seeds germinate.

<sup>3</sup>Fall applications for spring crabgrass control in cool-season grasses: In those areas where the ground freezes in the winter, Knighthawk can be applied in the fall at rates of 1.0-1.15 lbs./A after the soil temperature falls below 50°F but before the ground freezes. This application will control crabgrass the following spring.

<sup>5</sup>In any area a single application of 1-2.3 lbs./A of Knighthawk will control goosegrass. However, under heavy goosegrass pressure and/or an extended growing season, most effective control may be obtained by making an initial application of 1-1.5 lbs./A followed, after 60-90 days, by a second application that does not exceed the maximum rate for that turfgrass species listed in the Maximum Application Rate Table.

Do not exceed a dosage of 1.5 lbs. a.i./Acre, (2.3 lbs./A of this product) per year on any use site.

#### **ESTABLISHED TURF**

Knighthawk is a preemergence herbicide that, when properly applied, will control certain grass and broadleaf weeds in established turfgrasses including:

- Golf courses excluding putting greens
- · Lawns
- · Sod nurseries

The maximum amount of Knighthawk that may be applied per year is given for each turfgrass species in the Annual Use Rates section of the label.

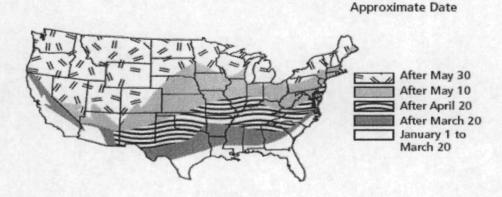
<sup>&</sup>lt;sup>4</sup>Suppression only.

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For optimum weed control, Knighthawk should be activated by at least 0.5 inch of rainfall or irrigation before weed seeds germinate and within 14 days following application. See the map below for approximate crabgrass seed germination dates.

#### CRABGRASS SEED GERMINATION DATES



#### **Use Precautions-Turfgrass**

- 1. Do not apply Knighthawk to areas where dichondra, colonial bentgrass, velvet bentgrass, or annual bluegrass (Poa annua) are desirable species.
- 2. Do not cut (harvest) treated sod before 90 days after application. To avoid turfgrass injury, do not apply to newly set sod until the sod has rooted and exposed edges have filled in.
- 3. To avoid turfgrass injury, do not apply Knighthawk to turf stressed by conditions such as drought, low fertility, or pest damage.
- 4. Disturbing the herbicide barrier with cultural practices such as disking may result in reduced weed control.
- 5. Do not apply Knighthawk to golf course putting greens.
- 6. If the depth of the creeping bentgrass root system becomes shallow and root tips contact Knighthawk-treated soil, new root formation may be inhibited. Mowing height can affect the depth of a plant's root system. To avoid this, do not apply Knighthawk to creeping bentgrass less than 0.5 inch in height.

#### **Application Timing and Rate-Turfgrass**

Knighthawk may be applied as a single application or in sequential applications to control weeds germinating throughout the year. All applications should be made

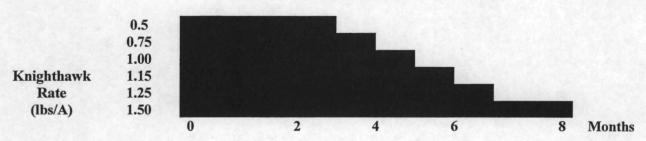
before target weeds germinate. Knighthawk will not control weeds that have already emerged. The amount of Knighthawk to apply depends upon:

- 1. the length of residual weed control desired (the higher the application rate, the longer the control),
- 2. the turf species, and
- 3. the maximum amount which can be applied to the turf species per calendar year.

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<sup>\*</sup>Length of control varies by region. This table is an average for planning purposes.

#### **Annual Use Rates-Turfgrass**

Knighthawk can be applied to the turfgrass species listed in the following table. Do not apply more than the highest rate listed for each species in a calendar year.

Table 1. Maximum Application Rate of Knighthawk Per Calendar Year by Turfgrass Species 11

Turf Species	lbs. Product/Acre	oz. Product/1,000 sq. ft.
Bermuda grass <sup>2/</sup> Bahiagrass Centipedegrass Kikuyugrass Seashore Paspalum St. Augustinegrass 3/ Tall Fescue (including turf-type) Zoysiagrass	1.0-2.30 1/	0.36-0.83
Buffalograss Kentucky Bluegrass Perennial Ryegrass	0.5-1.50 1/	0.185-0.55
Fine Fescue	0.5-1.15 1/	0.185-0.42
Creeping Bentgrass (0.5 inches or more in height) 4/	0.5-1.00 1/	0.185-0.37

<sup>1</sup>Knighthawk may be applied more than once a year as long as the total amount applied is not greater than the maximum application rate for each turf species. All applications must be made before weed seeds germinate.

<sup>2</sup>May be used on newly-sprigged or plugged Bermudagrass at rates not to exceed 6.80° lb./A (0.30 oz./1,000 sq. ft.). Newly-sprigged or plugged Bermudagrass stolon rooting may be temporarily retarded.

<sup>&</sup>lt;sup>3</sup>Use an initial rate of 0.75-1.5 lbs./A per application.

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<sup>4</sup>To avoid grass injury, do not apply Knighthawk to creeping bentgrass mowed at less than 0.5 inch in height.

#### When to Apply Knighthawk After Overseeding Turf

Injury to desirable seedlings is likely if Knighthawk is applied before the secondary roots of seedlings are in the second inch of soil (not thatch plus soil). To reduce the potential to injure overseeded turf, wait 60 days after seeding or until after the second mowing, whichever is longer, before applying Knighthawk.

#### When to Overseed After Application-All States\*

Knighthawk will inhibit the development of turfgrass species overseeded too soon after application. Follow rates and intervals in the table below for best overseeding/reseeding results.

\*Note: In AZ, CA, NV, and TX, the overseeding interval can be shorter in established bermudagrass that has been overseeded with perennial ryegrass. See the next section "Poa Annua Control in Established Bermudagrass Overseeded with Perennial Ryegrass (AZ, CA, NV, and TX only)".

Amount of Knighthawk	Interval (Months) Before Overseeding		
lbs. Product/A	North	Transition	South
0.75	4	4	4
1.00	5	4	4
1.15	6	5	5
1.25		6	6
1.50		7	7
1.75			9
2.00			10
2.30			12

# Poa annua control in Established Bermudagrass Overseeded with Perennial Ryegrass (AZ, CA, NV, and TX only)

Use on golf courses (excluding golf course putting greens, lawns, and sod nurseries when overseeding with perennial ryegrass (minimum seeding rate of 350 lbs./A).

#### How Much and When to Apply

<b>Amount to Apply</b>	When to Apply	<b>Expected Control</b>	<b>Use Precautions</b>
0.58-1.0 lb/A	First Application: 6 to 8 weeks before ryegrass	1 application for 70% or greater control of Poa	<ol> <li>Some seedling mortality and temporary reduction in root growth of new seedlings may occur.</li> </ol>
	overseeding.	Annua.	<ol><li>To reduce the potential for seedling mortality, maintain a moist ceedbe</li></ol>
	Second	Second application	with light, frequent irrigation.
	Application: 4 to 8 weeks after overseeding or when perennial	may enhance control.	3. Make no more than 2 applications per year for this use, and do not exceed a total of 1.3 lbs./A per year.
	ryegrass roots are		4. Do not make a second application

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in the second inch of soil.	if any injury to the ryegrass is observed after the first application.  5. Do not make a second application unless the product was first applied before overseeding.

# ORNAMENTALS (CONTAINER, FIELD, AND LANDSCAPE GROWN, INCLUDING CHRISMAS TREE FARMS), RIGHTS-OF-WAY, GROUNDS OF UTILITIES, UNGRAZED FENCE ROWS

Knighthawk may be applied to soil surfaces for preemergence control of many grass and broadleaf weeds:

- · Around ornamental shrubs, trees, established perennial vegetation and wildflower plantings;
- On or surrounding managed rights-of-way for transportation systems including roadways, roadsides, railways, and equipment yards;
- On grounds of utilities such as power substations, tank farms, pumping stations, parking and storage areas;
- On ungrazed fence rows.

# Application Timing and Information Knighthawk:

- 1. Will not control emerged weeds.
- May be applied to newly-transplanted and established ornamentals as broadcast or over-the-topspray.
- 3. Is most effective when applied to soil free of clods, weeds, and debris such as leaves and mulch.
- 4. Is most effective when the product is activated in the soil before weed seeds germinate and within 14 days after application.
- 5. Is activated when the treated area receives at least 0.5 inch of irrigation or rainfall, or shallow (1 to 2 inches) mechanical incorporation.

#### **Use Precautions**

#### To reduce injury potential:

- a. In the spring when buds are rapidly growing and expanding, over-the-top application of Knighthawk may temporarily injure new growth of desirable plants. To reduce the possibility of injury at this time, wait to apply Knighthawk over-the-top of newly emerged vegetation until it has hardened off, unless your experience indicates that the ornamental plant will not be injured by the other-the-top application.
- b. After application, immediately irrigate the treated area to wash Knighthawk from plant surfaces onto soil (watering plants before application may improve the washing process).

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#### Ornamentals, Christmas Tree Farms - Application Sites and Instructions

Site	Application Instructions
Newly-Transplanted container or Field Nursery Stock	<ol> <li>Delay application until soil has settled around transplants.</li> <li>Water transplants thoroughly before application.</li> <li>Apply after cuttings form roots and are established.</li> <li>To avoid inhibition of the tissue union, apply before budding/grafting or after buds/grafts have taken.</li> </ol>
Established Container, Field Nursery Stock, or Landscape Plants	Apply at any time as a broadcast, over-the-top, or directed spray.
Landscape (or Ornamental) Plantings	<ol> <li>Apply as a broadcast, over-the-top, or as a directed spray.</li> <li>Delay application to newly-transplanted ornamentals until soil has settled around transplants.</li> </ol>
Bare Ground Application for Container Placement	<ol> <li>Apply to soil (including mulch, gravel, wood chips, or other permeable base) upon which containerized ornamentals are placed.</li> <li>After Knighthawk is applied, perform shallow cultivation or hand weeding only, or avoid disturbing the herbicide barrier.</li> </ol>
In Shade Houses and Uncovered Polyhouses	After Knighthawk is applied, uncovered polyhouses must remain open for at least 7 days and ornamentals must receive 2 irrigations totaling at least ½ inch of water.
Ornamental Bulbs and Perennial Wildflower Plantings	<ol> <li>Knighthawk may be applied to bulbs or perennial wildflower species listed in the section Tolerant Ornamental Species.</li> <li>Apply before or after bulbs emerge but before bulbs bloom and weeds emerge. In wildflowers, a postemergence herbicide labeled for wildflowers may be needed to control weeds that have already emerged.</li> </ol>

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How Much and When to Apply

Amount to Apply (Broadcast)*	When to Apply	Comments/Instructions
1.0-2.3 lbs./A or 0.37 – 0.83 oz./1,000 sq. ft.	In fall or spring before weeds germinate or after weeds are removed.	<ol> <li>Use the higher rate for longer control.</li> <li>Knighthawk may be applied more than once per year as a long as the total amount of product applied does not exceed 2.3 lbs./A per year.</li> </ol>

\*Note: For band application calculate amount per acre:

<u>Band width in inches</u> x Broadcast rate = amount to apply per acre of field Row width in inches

**Equivalent Measurements for Knighthawk** 

lbs./A	oz./1,000 sq. ft.	Approximate Equivalent – Tablespoons/1,000 sq. ft
1.0	0.37	1.0
1.5	0.55	1.5
2.0	0.74	2.0
2.3	0.83	2.25

#### Tank Mixtures For Use On Ornamentals

Knighthawk may be tank mixed with other registered herbicides listed on this label to provide a broader spectrum of weed control or to control emerged weeds. Tank mixes with Knighthawk are for use only in states where the tank mix partner(s), application site, and same use pattern are registered. Follow the label(s) of the tank mix partner(s) for application rates, timing, weeds controlled, tolerant ornamentals, and specific use precautions and/or restrictions. Before mixing pesticides in the spray tank, test compatibility by mixing the products in a small container first. See the Compatibility Test section of this label.



#### Tank Mix Partners for Knighthawk on Ornamentals

Product	Precautions/Instructions
Goal® (use on conifers only)	Mix with Knighthawk for postemergence control of listed broadleaf weeds including malva and filaree.
Gallery®, Sim-Trol®, Pennant®	See product labels for weed spectrum and tolerant ornamentals.
Roundup Avocet® or other Glyphosate based products <sup>1</sup> , Finale®	These nonselective tank mix herbicides control most emerged annual broadleaves and grasses.  Take extreme care to prevent tank mixtures with these products from contacting the foliage and stems of turfgrass, trees, shrubs, or other desirable vegetation because desirable vegetation may be severely injured or killed. Apply these tank mixtures as a directed spray and use a shield to prevent spray from contacting foliage of desirable plants.  Follow instructions on the tank mix partner's label, delay irrigation of the treated area to allow time for the herbicide to be absorbed by weed foliage.

Roundup Avocet is one brand of a nonselective herbicide containing Glyphosate. Other Glyphosate products may also be used.

#### **Tolerant Ornamental Species**

Knighthawk will not harm most trees, shrubs, vines, and flowers. The species listed below in Table 2 are tolerant to Knighthawk. Knighthawk may be applied over-the-top of the listed species.

When plants are under stress (such as heat, drought, or frost damage), some cultivars of listed plants may be sensitive to Knighthawk.



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**Table 2. Tolerant Ornamental Species** 

Scientific Name	Common Name
Abelia grandiflora	Abelia
Abies spp.	Fir species
	(Balsam, Fraser, Noble, etc.)
Acer palmatum	Japanese Maple
Acer plantanoides	Norway Maple
Achillea spp.	Yarrow
Actinidia chinensis	Kiwi*
Agapanthus orientalis	Lily-of-the-Nile(African Lily)
Akebia quintata	Five-Leaf or Chocolate Vine
Allium cernuum	Lady's Leek, Nodding Onion
Anemone hybrida	Japanese Anemone
Aquilegia spp.	Columbine
Arctostaphylos densiflora	Vine Hill Manzanita
Arctotheca calendula	Cape Weed
Aucuba japonica	Japanese Aucuba
Artemisia spp.	Wormwood; Silver Mound; Castle
Aster spp.	Aster
Athyruim filix-femina	Lady Fern
Begonia spp.	Firbous Begonia
Berberis gladwynensis	Barberry
Berberis julianae	Wintergreen Barberry
Berberis mentorensis	Mentor Barberry
Berberis thunbergii	Japanese Barberry
Berberis verruculosa	Warty Barberry
Bergenia cordifolia	
Boltonia asteroides	Snowbank
Bougainvillea spp.	Bougainvillea
Buddleia davidii	Butterfly-Bush
Buxus microphylla	Japanese Boxwood
Callistermon citrinus	Crimson Bottlebrush
Callistemon viminalis	Weeping Bottlebrush
Calluna vulgaris	Scotch Heather
Campanula carpatica	Tussock Bellflower
Campis X tagliabuana	Trumpet Creeper, Trumpet Flower
Carpobrotus edulis	Hottentot Fig (Ice Plant)
Cassia artemisioides	Feathery Cassia
Ceanothus rigidus	Wild Lilac
Ceratostigma plumbaginoides	THAT DAME
Chamaecyparis pisifera	False Cypress
Chrysanthemum nipponicum	Tallot Offices
Cleyera japonica	Cleyera
Citrus spp.*	Ornamental orange, lemon, lime, etc.*
Curus spp. · Coreopsis spp.	Coreopsis (Calliopsis): Early Sunrise, Moonbeam
Cornus stolonifera	American Dogwood

Scientific Name	Common Name	
Cortaderia selloana	Pampas Grass	
Cotoneaster apiculatus	Cranberry Cotoneaster	
Cotoneaster buxifolius	Cotoneaster	
Cotoneaster dammeri	Bearberry Cotoneaster	
Contoneaster microphyllus	Rockspray Cotoneaster	
Crataegus spp.	Hawthorne	
Cupressus sempervirens	Italian Cypress	
Crocosmia spp.	Lucifer	
Delosperma spp.	Ice Plant	
Delphinium spp.	Larkspur	
Dianthus deltoides	Dianthus, Maiden Pinks	
Dianthus gratianopolitanus	Cheddar Pink	
Dodonea viscosa	Hop Bush	
Echinacea purpurea	Coneflower	
Elaeagnus pungens	Silverberry	De la
Euonymus fortunei	Wintercreeper	
Euonymus japonica	Japanese Spindle Tree	
	(Evergreen Euonymus)	
Euonymus kiautschovicka	Spreading Euonymus	
Fatsia japonica	Japanese Aralia	
Forsythia intermedia	Border Forsythia	
Forsythia suspensa	Weeping Forsythia	
Forsythia viridissima	Greenstem Forsythia	
Gaillardia spp.	Gaillardia, Blanket Flower	
Gardenia jasminoides	Gardenia, Cape-Jasmine	
Gaura spp.	Surdenius, Cupe vuonine	
Gentiana dahurica	Gentian	
Geranium cinereum	Cranesbill	
Gladiolus spp.**	Gladiolus species**	
Gypsophila repens	Baby's Breath	
Hedera helix	English Ivy	
Helianthemum spp.	Sunrose	
Hemerocallis spp.	Daylily	
Heucherella spp.	Coral Bells	
	Mallow; Rose of Sharon**	
Hibiscus spp. Hibiscus rosa-sinensis**	Chinese Hibiscus**	
		- 10
Hosta plantaginea	Hosta, Plantain Lily	
Hosta sieboldiana	Hosta	
Houttuynia cordata var.		
variegate	Dialogf Hydron	
Hydrangea macrophylla	Bigleaf Hydrangea	
Ilex cornuta	Chinese Holly**	
Ilex crenata	Japanese Holly	
Ilex opaca	American Holly	
Ilex pernyi	Holly	
Ilex vomitoria	Yaupon Holly	
Inula ensifolia		

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Scientific Name	Common Name
Iris spp.	Iris
Jasminium nudiflorum	Winter Jasmine
Juglans spp.	Walnut*
Juniperus chinensis	Chinese Juniper
Juniperus conferta	Shore Juniper
Juniperus davurica	
Juniperus horizontalis	Creeping Juniper
Justicia brandegeana	Shrimp Plant
Lagerstromia indica	Crape Myrtle
Lagerstromia indica and	Crape Myrtle
hybrids	
Lantana montevidensis	Weeping Lantana
Lavender spp.	Lavender; Munstead
Leontopodium alpinum	Edelweiss
Ligustrum amurense	Amur Privet
Ligustrum japonicum	Japanese Privet
Ligustrum lucidum	Glossy Privet(Wax-Leaf)
Ligustrum sinense	Chinese Privet
Lilium spp.	Lily
Liriope muscari	Liriope
Liriope spicata	Liriope, Creeping
Lobelia cardinalis	Cardinal Flower, Indian Pink
Lonicera japonica	Japanese Honeysuckle
Lonicera tatarica	Tatarian Honeysuckle
Loropetalum chinense	Loropetalum
Lythrum spp.	Loosestrife
Magnolia spp. **	Magnolia **
Maleophora luteola	Ice Plant
Malus spp.*	Crabapple*
Miscanthus sinensis	Yaku Jima**, Silberfeder**
Nandina domestica	Heavenly Bamboo
Narcissus spp.**	Narcissus, Daffodil
Nerium spp.	Oleander
Oenothera missourensis	Evening Primrose
Olea europaea	Olive*
Ophiopogon japonicus	Mondo Grass**
Osmanthus heterophyllus	Osmanthus (False Holly)
Osteospermum fruticosum	Trailing African Daisy
Oxydendrum luteum	Sourwood
Paeonia suffruticosa	Tree Peony
Pennisetum setaceum	Fountain Grass**
Perovskia atriplioifolia	A CHARMAIA CAMOO
Persea americana	Avocado*
Photinia fraseri	Photinia (Redtip)
Physostegia virginiana	Dragonhead, False
	Spruces**(Colorado Blue, Norway, etc.)
Picea spp.	spruces (Colorado Blue, Norway, etc.)

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Scientific Name	Common Name
Pinus brutia	Calabrian Pine
Pinus canariensis	Canary Island Pine
Pinus elliottii	Slash Pine
Pinus halepensis	Aleppo Pine
Pinus nigra	Austrian Black Pine
Pinus palustrus	Longleaf Pine
Pinus radiata	Monterey Pine
Pinus strobus	Eastern White Pine
Pinus sylvestris	Scotch Pine
Pinus taeda	Loblolly Pine
Pinus thunbergiana	Japanese Black Pine
Pinus virginiana	Virginia Pine
Pistacia spp.	Pistachio*
Pittosporum rhombifolium	Queensland Pittosporum
Pittosporum tobira	Japanese Pittosporum
Podocarpus macrophyllus	Japanese Yew
Prunus laurocerasus	English Laurel
Prunus spp.	Almond, Apricot, Nectarine, Peach, Plum
	and Prune*
Pseudotsuga menziesii	Douglas Fir**
Pyracantha coccinea	Firethorn Scarlet
Pyracantha fortuneana	Firethorn
Pyracantha koidzumii	Firethorn
Pyrus spp.	Bradford Pear spp.
Quercus rubra	Red Oak
Quercus shumardii	Shumard Oak
Raphiolepsis indica	Indian Hawthorne
Raphiolepsis umbellata	Yedda Hawthorne
Rhododendron spp.	Rhododendron, Azaleas
Rosa banksiae	Lady Bank's Rose
Rudbeckia spp.	Black-Eyed Susan
Rumohra adiantiformis	Leatherleaf Fern
Santolina virens	
Saxifraga spp.	Saxifrage; Purple Dome
Scabiosa spp.	Pincushion Flower
Sedum album	Stonecrop
Spiraea bumalda	Spirea
Syzygium paniculatum	Australian brushcherry; Japanese Boxcherry
Taxus cuspidate	Japanese Yew
Taxus spp.	Yew
Teucrium spp.	Germander
Thalictrum dipterocarpum	Meadow Rue
Thuja occidentalis	American Arborvitae
Trachelospermum asiatum	Star Jasmine
Tsuga canadensis	Canada Hemlock



Scientific Name	Common Name	
Veronica spp.	Veronica, Speedwell	
Viburnum japonicum	Japanese Viburnum	
Viburnum odoratissimum	Sweet Viburnum	
Viburnum plicatum	Japanese Snowball	
Viburnum rigidum	Canary Island Viburnum	
Viburnum suspensum	Arrowood Viburnum	
Viburnum tinus	Laurustinus	
Viburnum trilobium	Cranberry Bush	
Viburnum wrightii	Leatherleaf Viburnum	
Vinca major	Vinca	
Vinca minor	Dwarf Periwinkle	
Vitis spp.	Grape*	
Weigela florida	Old Fashioned Weigela	
Yucca aloifolia	Spanish Bayonet	3.0
Yucca filamentosa	Yucca, Adam's Needle	

<sup>\*</sup>Do not use on food producing trees, vines, or plants.

#### NEW PLANTINGS, REPLANTING, AND ROTATIONAL PLANTINGS

Nursery, landscape, or non-cropland areas treated with Knighthawk should be rotated only to ornamental species listed on this label for 1 year following application unless the following test has shown species safety:

Before planting a species not listed on this label, it is recommended that several test strips of an indicator plant such as wheat, sorghum, or corn be sown into the treated area. If the indicator plants germinate and grow normally to a height of 12 inches with normal root development, it is safe to plant.

In areas disturbed by new plantings or replanting of labeled species, it may be necessary to retreat exposed soil to maintain satisfactory weed control.

# CHEMIGATION INSTRUCTIONS OVERHEAD SPRINKLER IRRIGATION APPLICATION

- Apply this product only through an overhead sprinkler irrigation system. Do not apply this
  product through any other type of irrigation system.
- Crop injury and lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water. If you have questions about calibration, contact State Extension Service specialists, equipment manufacturers, or other experts.
- To avoid injury to foliage, make sure foliage is sufficiently wet before application or adequate irrigation is applied after application.
- If sprinkler distribution patterns do not overlap sufficiently, unacceptable weed control may result.
- If sprinkler distribution patterns overlap excessively, injury to leatherleaf ferns and other ornamentals may result.
- Do not connect an irrigation system (including greenhouse systems) used for pesticide application
  to public water systems unless pesticide label-prescribed safety devices for public water systems
  are in place.

<sup>\*\*</sup>Not for use on container grown plants.

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 If necessary, a person knowledgeable of the chemigation system and responsible for its operation, or someone under the supervision of the responsible person, shall shut the system down arid make necessary adjustments.

#### **Operation Instructions**

- 1. The 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.
- 2. The pesticide injection pipeline must contain a functional automatic, quick closing check valve to prevent the flow of fluid back toward the injection pump.
- 3. 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.
- 4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- 5. The irrigation line or water. pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- 6. 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.
- 7. Do not apply when wind speed favors drift beyond the area intended for treatment.
- 8. Prepare a mixture with a minimum of 20 parts of water to 1 part Knighthawk and inject this herbicide suspension mixture into the overhead system. Injecting a larger volume of a more dilute mixture per hour will usually provide more accurate calibration of metering equipment. Maintain sufficient agitation to keep the herbicide in suspension.
- 9. Before injecting Knighthawk in to the system, run the irrigation system long enough to wet the foliage, then inject Knighthawk suspension mixture in the pesticide supply tank (see number 8 above) in 1 inch of irrigation water. After the application is complete, continue the irrigation until all residues are washed off the foliage.



#### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or <u>and</u> disposal. <del>Open dumping is prohibited.</del> **PESTICIDE STORAGE**: Store in original container away from feed or foodstuffs and separated from other pesticides.

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

#### CONTAINER DISPOSAL: HANDLING:

Paper and plastic film bags - Completely empty container into application equipment. Then dispose of empty bag in a sanitary landfill or incinerate; or, if allowed by state and local authorities, burn locally. Stay out of smoke from burning container. Nonrefillable container. Do not reuse this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning If burned, stay out of smoke.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip.

Repeat this procedure two more times.

Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank. 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.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes. In the event of a major spill, fire, or other emergency, call toll free 1-888-875-1724 day or night.



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## IMPORTANT INFORMATION READ BEFORE USING PRODUCT

#### CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. The Directions for Use of this product reflect the opinion of experts based on field use and tests; 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 manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, that are beyond the control of Phoenix Environmental Care, LLC or Seller. Handling, storage, and use of the product by Buyer or User are beyond the control of Phoenix Environmental Care, LLC and Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Phoenix Environmental Care, LLC and Seller harmless for any claims relating to such factors.

Phoenix Environmental Care, LLC warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or Phoenix Environmental Care, LLC, and Buyer and User assume the risk of any such use. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, PHOENIX ENVIRONMENTAL CARE, LLC MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

To the extent consistent with applicable law, Phoenix Environmental Care, LLC or Seller shall not be liable for any incidental, consequential or special damages resulting from the use or

handling of this product. THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF PHOENIX ENVIRONMENTAL CARE,LLC, AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR

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OF PHOENIX ENVIRONMENTAL CARE, LLC OR SELLER, THE REPLACEMENT OF THE PRODUCT.

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