4/03/2014

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

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

Bill Washburn Helena Chemical Company 225 Schilling Boulevard, Suite 300 Collierville, TN 38017

APR 23 2014

Subject:

Notification; Per PR-Notice 98-10

TAPOUT WFP

EPA Reg. No. 5905-586

Date Submitted: April 18, 2014

Proposed Alternate Brand Name:

Mossy Oak Bio Logic Weed Reaper - Grass Control

Dear Mr. Washburn:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 dated April 18, 2014 for the product referenced above. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10. The label submitted with the application has been stamped "Notification" and will be placed in our records. In addition, the alternate brand name "Mossy Oak Bio Logic Weed Reaper – Grass Control" is acceptable and has been added to the product file.

If you have any questions regarding this letter, please contact Kable Bo Davis at (703) 306-0415 or davis.kable@epa.gov.

Sincerely,

Kathryn Montague Product Manager 23

Herbicide Branch

Herbicide Branch

Registration Division (7505P)

Please read instructions on reverse before completing form. Form Approved, OMB No. 2070-0060, Approval expires 05-31-98 **United States** OPP Identifier Number ☐ Registration **Environmental Protection Agency** ☐ Amendment Washington, DC 20460 Other: Application for Pesticide - Section I 1. Company/Product Number 2. EPA Product Manager Proposed Classification Kathryn Montague 5905-586 4. Company/Product (Name) PM# Restricted 23 **TAPOUT WFP** 5. Name and Address of Applicant (Include ZIP Code) 6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(l), my product is similar or identical in composition and labeling Helena Chemical Company 225 Schilling Boulevard, Suite 300 EPA Reg. No. Collierville, TN 38017 Product Name Check if this is a new address Section - II Amendment - Explain below. Final printed labels in response to Agency letter dated Resubmission in response to Agency letter dated ____ "Me Too" Application Notification - Explain below. Other - Explain below Explanation: Use additional page(s) if necessary. (For Section I and Section II.) Notification of Alternate Brand Name (MOSSY OAK® BIO LOGIC® WEED REAPER - GRASS CONTROL) per PR Notice 98-10. This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 USC Sec 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA. Section - III 1. Material This Product Will Be Packaged In: Unit Packaging Water Soluble Packaging Child-Resistant Packaging Type of Container Yes Yes Metal Yes* No No No Plastic If "Yes" No. per If "Yes" No. per Glass Unit Packaging wgt. container Package wgt. container *Certification must Paper be submitted Other (Specify) 3. Location of Net Contents Information 4. Size(s) Retail Container 5. Location of Label Directions Container Label On Label On labeling accompanying product Lithograph 6. Manner in Which Label is Affixed to Product ☐ Other Paper glued Stenciled Section - IV 1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application) Telephone No. ([nclude Area Name

Registration Specialist

Registration Specialist

4/18/2014

Certification

I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both

EPA Form 8570-1 (Rev. 8-94) Previous editions are obsolete

Bill Washburn

Bill Washburn

under applicable law.

2. Signature

4. Typed Name

White- EPA File Copy (original) Yellow- Applicant Copy

Code)

901-752-4420 6. Date Application

(Stamped)

Received



HELENA CHEMICAL COMPANY

225 Schilling Blvd., Suite 300 Collierville, Tennessee 38017 Telephone: 901-761-0050

April 18, 2014

Ms. Kathryn Montague, PM 23 Document Processing Desk (NOTIF) Office of Pesticide Programs – 750PC U.S. Environmental Protection Agency One Potomac Yard, Room S-4900 2777 South Crystal Drive Arlington, VA 22202

NOTIFICATION

Subject:

TAPOUT WFP

EPA Reg. No. 5905-586

Notification of Alternate Brand Name

APR 23 2014

Dear Ms. Montague:

Notification of the alternate brand name MOSSY OAK® BIO LOGIC® WEED REAPER - GRASS CONTROL per PR Notice 98-10. This alternate brand name qualifies as a notification because it meets the following criteria as outlined in PR Notice 98-10:

This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 USC Sec 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Please acknowledge acceptance of this notification. Should you have any questions or comments, please do not hesitate to contact me at 901-752-4420 or by e-mail at washburnb@helenachemical.com

Sincerely,

Bill Washburn

Registration Specialist

Bies Coorder

MOSSY OAK® BIO·LOGIC®

WEED REAPER - GRASS CONTROL

[Kills Grassy weeds without harming broad leaf wildlife food plots when used as directed]

[Kills annual and perennial grasses without harming broad leaf wild life food plots]

[Kills annual and perennial grasses]

[Only kills grasses and grassy weeds.]

[Kills annual and perennial grasses in ornamentals]

[Ideal for controlling grasses in clover, alfalfa, soybeans, peas, and other legume or broad leaf wild life food plots.]

[A Part of the Foxworthy Outdoors Line of Outdoor Products]

[Insert Foxworthy Outdoors logo]

[Kills Crabgrass, Quackgrass, Barnyardgrass, Foxtails, Bermudagrass & Johnsongrass]

[RaInfast In one hour]

[Kills Grassy weeds without harming [broadleaf wildlife food plots][and][or][ornamentals] when used as directed NOTIFICATION

[Kills grasses in wildlife food plots]

[This XX container covers XX sq ft]

APR 23 2014

[This XX container covers XX acres]

[Treats Up to XX sq ft]

[Treats Up to XX acres]

[WEED REAPER - GRASS CONTROL can be used to remove grassy weeds on plots grown for wildlife food.]

Active Ingredient	By Wt.
*Clethodim	
Other Ingredients	<u>87.4%</u>
Total	100.0%

Contains Petroleum Distillates

*(E)..2..[1 -[[(3-chloro-2-propenyl)oxyjimino]propyl]-5-[2-(ethylthio)propyl]-3-hydroxy-2-cyclohexen-1 -one Contains 0.97 lbs. Clethodim per gal.

KEEP OUT OF REACH OF CHILDREN CAUTION See Additional Precautions inside Booklet

EPA Reg. No. 5905-586 EPA Est. No. AD 083012 NET CONTENTS Manufactured For Estate State State

PRECAUTIONARY STATEMENTS **HAZARDS TO HUMANS & DOMESTIC ANIMALS** CAUTION

Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

	FIRST AID
IF SWALLOWED:	 Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
IF IN EYES:	 Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor immediately for advice
IF ON SKIN OR CLOTHING:	 Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
IF INHALED:	 Move person to fresh air. If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact (800) 424-9300, collect day or night, for emergency medical treatment information.

NOTE TO PHYSICIAN

Ingestion of this product or subsequent vomiting can result in aspiration of light hydrocarbon liquid, which can cause pneumonitis. If ingested, probable mucosal damage may contraindicate the use of gastric lavage. May pose an aspiration pneumonia hazard. Contains petroleum distillate.

USER SAFETY RECOMMENDATIONS

Users should:

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

ENVIRONMENTAL HAZARDS

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply where runoff is likely to occur. Do not apply where weather conditions favor drift from areas treated. Do not contaminate water when disposing of equipment washwater or rinsate.

The use of this product may pose a hazard to the federally designated endangered species of Solano Grass and Wild Rice. Use of this product is prohibited in the following areas where the species are known to exist:

Solano Grass: Solano County, California: the vernal lakes area bounded by the Union Pacific Railroad and Hastings Road to the north. Highway 113 to the east, Highway 12 to the south and Travis Air Force Base to the west.

Wild Rice: Hays County, Texas.

Filename: TAPOUT WFP (5905-586) 041814 STK.doc Alternate Brand Name: MOSSY OAKo BIO LOGICO WEED REAPER - GRASS CONTROL

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PHYSICAL OR CHEMICAL HAZARDS:

Do not use or store near heat or open flame.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

READ ENTIRE LABEL AND PAMPHLET. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.

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. Keep all unprotected persons out of operating areas, or vicinity where there may be drift. Do not enter treated areas without protective clothing until sprays have dried.

STORAGE AND DISPOSAL

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

Pesticide Storage: Store in original container in a cool dry place, out of reach of children, preferably a locked storage cabinet.

Pesticide Disposal and Container Handling: Nonrefillable container. Do not reuse or refill this container. If empty: Place in trash or offer for recycling, if available. If Partly Filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

PRODUCT INFORMATION

For use on wildlife food plots to control grassy weeds.

<u>WEED REAPER - GRASS CONTROL</u> is a selective postemergence herbicide for control of annual and perennial grasses. <u>WEED REAPER - GRASS CONTROL</u> does not control sedges or broadleaf weeds.

Apply when grassy weeds are actively growing. Weather conditions such as sunny skies and warm weather promote the growth of grassy weeds and make them more susceptible to herbicide control. Treated grass weeds show a reduction in vigor and growth. Early chlorosis/necrosis of younger plant tissue is followed by a progressive collapse of the remaining foliage. Symptoms will generally be observed in 7 to 14 days after application, depending on grass species treated and environmental conditions.

MIXING INSTRUCTIONS

- Add half of the needed water to the sprayer/spray tank
- Add WEED REAPER GRASS CONTROL
- Fill tank to desired level

BROADCAST APPLICATIONS

How to Apply

- Use of sufficient spray volumes and pressure is essential to ensure complete coverage.
- Use a minimum of 5 gallons or a maximum of 40 gallons of spray solution per acre.
- Under the following conditions a minimum of 10 gals per acre is required: perennial grasses, volimeer corn, drought or stress conditions, heavy grass pressure or when grasses are at or near maximum height. Failure to use 10 gallons per acre under these conditions can result in poor coverage and reduced grass control requiring repeat applications.
- Spray pressure should reflect a minimum of 30 psi and a maximum of 60 psi at the nozzle.
- Do not use flood nozzles.

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Filename: TAPOUT WFP (5905-586) 041814 STK.doc

Alternate Brand Name: MOSSY OAK, BIO LOGIC, WEED REAPER - GRASS CONTROL

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- Apply as close to target plants as practical while maintaining a good spray pattern for adequate coverage.
- Repeat application may be applied after 14 days

Use Rates

- For annual grasses 1 to 4 inches tall apply 9 fl oz per acre
- For annual grasses 4 to 12 inches tall apply 16 fl oz per acre
- For perennial grasses 2 to 6 inches apply 12 fl oz per acre.
- For perennial grasses 6 inches or taller apply up to 32 fl oz per acre
- Consult the "Directions for Annual Grasses" and "Directions for Perennial Grasses" tables for rates for specific grasses
- A second application may be needed for some grasses and for taller grasses

HAND SPRAYER/SPOT APPLICATION

- Apply with a hand trigger sprayer or pump up hand sprayer.
- Adjust sprayer to deliver a fine spray, spray plants until lightly wet, but not dripping.
- Use 1 fl oz WEED REAPER GRASS CONTROL per gallon of water.
- Spray directly on grassy weeds till lightly wet.
- One gallon of spray mix covers 1300 square feet.

For hard to control weeds, make a second application 2 to 3 weeks after the first application

TANK MIXES

Read tank mix product label for rates and weeds controlled. Always read and follow label directions for all tank mix products before using. The most restrictive labeling of any tank mix product must be followed.

DIRECTIONS FOR ANNUAL GRASSES

- Apply only to actively growing grasses at specified weed heights.
- Apply when the first grass weed species in a mixed grass weed population reaches the specified growth stage for treatment.
- Use the high rate under heavy grass pressure and/or when grasses are at maximum height.

		WEED		ION RATES
GRASS SPECIES	SCIENTIFIC NAME	ME HEIGHT*		MAXIMUM RATE***
		(inches)	RATE Fl. Oz./A	FI. Oz./A
Barnyardgrass	Echinochloa crus-galli	2 to 8	9	16
Broadleaf Signalgrass	Brachiaria platyphylla	2 to 6	9	16
Brome	, ,, ,			
California	Bromus carinatus	2 to 6	9	16
Cheat	Bromus secalinus	2 to 6	9	16
Downy	Bromus tectorum	2 to 6	9	16
Ripgut	Bromus diandrus	2 to 6	9	16
Canarygrass	Phalaris canariensis	1 to 4	9	16
Crabgrass				
Hairy	Digitaria adscendens	2 to 6**	9	16
Large	Digitaria sanguinalis	2 to 6**	9	16
Smooth	Digitaria ischaemum	2 to 6**	9	16
Southern	Digitaria ciliaris	2 to 6**	9	16
Crowfootgrass	Dactyloctenium aegyptium	2 to 6**	9	16
Fall Panicum	Panicum dichotomiflor	2 to 8	9	16
Field Sandbur	Cenchrus incertus	2 to 6	9	16
Foxtail	Catavia fahavi	2 to 42		16
Giant Green	Setaria faberi Setaria viridis	2 to 12 2 to 8	9	16
	Setaria glauca	2 to 8	9	16
Yellow	Eleusine indica	2 to 6**	9	16
Goosegrass	Rottboellia cochinchinensis	2 to 6	9	16
Itchgrass Junglerice	Echinochloa colona	2 to 6	9	16
Lovegrass (Stinkgrass)	Eragrostis cilianensis	2 to 6	9	16
Rabbitsfootgrass	Polypogon monspeliensis	1 to 4	9	16
Red Rice	Oryza sativa	1 to 3	9	16
Ryegrass	Oryza Saliva	7 10 0		10
Hardy :	Lolium remotum	2 to 6	9 .	16
Italian	Lolium multiflorum	2 to 6	9	16
Seedling Johnsongrass	Sorghum halepense	4 to 10	9	16
Shattercane	Sorghum bicolor	6 to 18	9	16
Southwestern Cupgrass	Eriochloa gracilis	2 to 6	9	16
Sprangletop	Litoomoa graomo	2 10 0		"
Amazon	Leptochloa panicoides	2 to 6	9	16
Bearded	Leptochloa fascicularis	2 to 6	9	16
Mexican	Leptochloa uninervia	2 to 6	9	16
Red	Leptochloa filiformis	2 to 6	9	16
Texas Panicum	Panicum texanum	2 to 6	9	16
Volunteer Cereals		2.30		
Barley	Hordeum vulgare	2 to 6	9	16
Oats	Avena sativa	2 to 6	9	16
Rye	Secale cereale	2 to 6	9	(16
Wheat	Triticum aestivum	2 to 6	9	16
Volunteer Corn	Zea mays	Up to 12	6	: 666 12
Volunteer Corn	Zea mays	Up to 24	9	14
Volunteer Corn	Zea mays	Up to 36	12	16
Volunteer Grain Sorghum	Sorghum bicolor	8 to 12	9	ر 'دا 16 ' ا
Wild Oats	Avena fatua	2 to 6	9	16
Wild Proso Millet	Panicum miliaceum	2 to 10	9	i 16
Witchgrass	Panicum capillare	2 to 8	9	16
Wooly Cupgrass	Erichhloa villosa	2 to 8	9	16

^{*}Generally occurs between 3-leaf stage and tillering.
**Length of lateral growth.
*** Use the higher rate for taller grass.

(**i**. (i.

DIRECTIONS FOR PERENNIAL GRASSES

- Apply only to actively growing grasses at specified weed heights.
- Apply when the first grass weed species in a mixed grass weed population reaches the specified growth stage for treatment.
- Use the high rate under heavy grass pressure and/or when grasses are at maximum height.

		APPLICATION RATE	
GRASS SPECIES	WEED HEIGHT (inches)	MINIMUM RATE FI. Oz./A	MAXIMUM RATE* FI. Oz./A
Bermudagrass (Cynodon dactylon)			
First Application	3 (or up to 6" runners)	12	32
Repeat Application(s) (if regrowth occurs)	3 (or up to 6" runners)	12	, 32
Fescue, Tall (Festuca arundinacea)		-	
First Application	4 to 8	12	32
Repeat Application(s) (if regrowth occurs)	4 to 8	. 12	32
Foxtail Barley (Hordeum jubatum)			
First Application	2 to 6	12	32
Repeat Application (if regrowth occurs)	2 to 6	12	32
Orchardgrass (Dactylis glomerata)			
First Application	. 4 to 8	12	32
Repeat Application(s) (if regrowth occurs)	4 to 8	12	32
Quackgrass (Elytrigia repens)			
First Application	4 to 12	12	32
Repeat Application(s) (if regrowth occurs)	4 to 12	12	32
Rhizome Johnsongrass (Sorghum halepense)	•		·
First Application	12 to 24	12	32
Repeat Application(s) (if regrowth occurs)	6 to 18	9	24
Wirestem Muhly (Muhlenbergia frondosa)			
First Application	4 to 8	12	32
Repeat Application(s) (if regrowth occurs)	4 to 8	12	32
Perennial Bluegrass			
[Roughstalk (Poatrivialis)]			
[Kentucky (Poa prantensis)]			
First Application	2 to 4	12	32
Repeat Application(s)	2 to 4	12	32
Bentgrass (Agrostis spp.)			(((((
First Application	2 to 4	-	32
Repeat Application(s) (if regrowth occurs)	2 to 4		<u> </u>

^{*} Use the higher rate for taller grass.



TOLERANT PLANTS			
Alfalfa	Peas	Garden and Red Beets	
Carrots	Southern Peas	Mustard	
Clover, Sweet, White and	Sugarbeets	Peanuts	
Other Species	Turnips	Radish	
Flax	Canola (not for canola grown in	Soybeans	
Lablab	California	Sunflower	
Parsnips	Chufa		

RESTRICTIONS AND LIMITATIONS

- Do not apply more than 32 fl oz of **WEED REAPER GRASS CONTROL** per acre per year on wildlife food plots
- Do not apply if rain is expected within 1 hour of application, as control may be unsatisfactory.
- Do not mow prior to application.
- Avoid getting spray or spray drift on susceptible grass crops as injury will occur.
- Minor leaf spotting can occur on treated plants under certain conditions. New foliage is not affected.
- Avoid spraying in windy conditions (windy conditions are when winds are greater than 10 miles per hour).
- Avoid spraying when winds are gusty.
- Do not spray on grassy food plants such as corn, sorghum, wheat, barley, rice, rye and millet.
- Do not apply under conditions of stress. Applying <u>WEED REAPER GRASS CONTROL</u> under conditions that do
 not promote active grass growth will reduce herbicide effectiveness. These conditions include drought, excessive
 water, extremes in temperature, low humidity and grasses either partially controlled or stunted from prior pesticide
 applications. Grasses under these kinds of stressful conditions will not absorb and translocate <u>WEED REAPER GRASS CONTROL</u> effectively, and will be less susceptible to herbicide activity.
- Application on Long Island, New York, is restricted to no more than 32 fl oz of **WEED REAPER GRASS CONTROL** (0.25 lb a.i) per acre per season.

For use in Ornamentals to control grassy weeds

For ornamental plant uses, <u>WEED REAPER - GRASS CONTROL</u> can be used to control labeled grass weeds in and around outdoor ornamentals.

IMPORTANT

WEED REAPER - GRASS CONTROL successfully controls weeds in newly transplanted and established non-grassy ornamentals. Plant tolerance to WEED REAPER - GRASS CONTROL at labeled rates has been found to be acceptable for the indicated genera and species listed below. Due to variability within species, crop growth stage, environmental conditions, and application techniques, it is recommended that the user determine if herbicide can be used safely on a few plants prior to widespread application. Neither the seller nor the manufacturer of WEED REAPER - GRASS CONTROL has investigated the safety factor to ornamental plants not listed on the label.

MIXING INSTRUCTIONS

- Add half of the needed water to the sprayer/spray tank
- Add WEED REAPER GRASS CONTROL
- Fill tank to desired level

HAND SPRAYER/SPOT APPLICATION

- Apply with a hand trigger sprayer or pump up hand sprayer.
- Adjust sprayer to deliver a fine spray, spray plants until lightly wet, but not dripping.
- Use 1 fl oz WEED REAPER GRASS CONTROL per gallon of water.
- Spray directly on grassy weeds till lightly wet.
- One gallon of spray mix covers 1300 square feet.

For hard to control weeds, make a second application 2 to 3 weeks after the first application

The following plants have shown a tolerance for **WEED REAPER - GRASS CONTROL** applications:

ORNAMENTAL TREES

COMMON NAME	SCIENTIFIC NAME	COMMON NAME	SCIENTIFIC NAME
Alder, Red	Alnus rubra	Golden Chain Tree	Laburnum anagyroides
Ash	Fraxinusspp.	Maples	Acer spp.
Basswood	Tilia spp.	Mulberry, White	Morus alba
Birch, European	Betula pendula	Oaks	Quercus spp.
White	Betula nigra	Olive, Wild	Elaea gnus angustifolia
Birch, River	Betula papyrifera	Redbud, Eastern	Cercis canadensis
Birch, White	Malus halliana	Sweet Gum, American	Liquidambar styraciflua
Crabapple,	Cornus florida		
Flowering			
Dogwood, Flowering			

GROUND COVERS

COMMON NAME	SCIENTIFIC NAME	
Bugleweed, Carpet	Ajuga reptans	
Ivy, English	Hedera helix	
Japanese Spurge	Pachysandra terminalis	
Lilyturf	Liriope muscari	
Moneywort	Lysimachia nummulana	
Mondo Grass, White	Ophiopogon jaburan	
Mondo Grass Dwarf	Ophiopogo japonicus	
Periwinkle, Lesser	Vinca minor	

GARDEN FLOWERS AND PLANTS

*slight foliage or flower speckling has been observed on these species.

COMMON NAME	SCIENTIFIC NAME	COMMON NAME	SCIENTIFIC NAME
Ageratum	Ageratum spp.	Jasmine Tobacco	Nicotiana alata
Alyssum*, Sweet	Lobularia maritima	Loosestrife	Lythrum salicaria
Asparagus Fern	Asparagus setaceus	Marigold	Tagetes spp.
Bleeding Heart	Dicentra spectabilis	Partridgeberry	Mitchella repens
Cast Iron Plant	Aspidistra elatior	Petunia*	Petunia hybrida
Chrysanthemum	Chrysanthemum	Phlox	Phlox spp.
	spp.	Pinks	Dianthus spp.
Cinquefoil	Potentila spp.	Portulaca	Portulaca grandiflora
Coleus	Coleus spp.	Salvia	Salvia spp.
Coralbells	Heuchera san	Saxifrage	Saxifraga spp.
	guinea	Sedum	Sedum spp.
Cranesbill	Geranium spp.	Selloum	Philodendron selloum
Dahlia	Dahlia spp.	Snapdragon*	Antirrhinum majus
Daisy, Trailing	Osteospermum	Sweet Flag	Aacorus gramineus
African	fruticosum	Tickseed	Coreopsis grandificia
Daylily `	Hemerocallis spp.	Touch-Me-Not	Impotions onn
Dusty Miller	Seneclo cineraria	Verbena	Verbena spp. Viola spp.
Euonymus	Euonymus.spp.	Violet	Viola spp.
Gaza nia	Gazania spp.	Yarrow, Common	Achillea millefolium
Geranium, House	Pelargonium	Zinnia	Zinnia elecans 🚞 🗀
	hortorum	ļ	
Heather, False	Cuphea hyssopifolia		
Hosta	Hosta fortunei		
Iris	Iris spp.		

SHRUBS *Slight foliage or flower speckling has been observed on these species.

Abelia	Abelia spp.	Jasmine, Asiatic	Trachelospermum
Anise, Purple	liicium floridanum		asiaticum
Aucuba	Aucuba spp.	Jasmine, Star	Trachelospermum
Azalea*	Rhododendron spp.		jasminoides
Bamboo	Bambusa spp.	Juniper	Juniperus spp.
Barberry, Japanese	Berberis thunbergil	Lantana	Lantana spp.
Barberry, Magellan	Berberis buxifolia	Nandina* Bamboo,	Nandinia domestica
Bayberry	Myrica pensylvanica	Heavenly	Nerium oleander
Bottlebrush	Callistemon citrinus	Oleander, Common	
Boxwood, Common	Buxus sempetvirens	Oregon Grape	Mahonia aquifolium
Camellia, Common	Camellia japonica	Photinia	Photinia spp.
Candytuft	Iberis sempeivirens	Pittosporum	Pittosporum spp.
Cleyera	Cleyera japonica	Podocarpus	Podocarpus spp.
Coralberry	Ardisia crenata	Privet	Ligustrum spp.
Crape Myrtle	Lagerstroemia indica	Pyracantha	Pyracantha spp.
Coyote Brush	Baccharis pilularis	Rhododendron	Rhododendron spp.
Fig, Creeping	Ficus pumila	Rose	Rosa spp.
Gardenia	Gardenia spp.	Spirea	Spiraea bumalda
Holly	llex spp.	Sweet Olive	Osmanthus fragrans
Honeysuckle	Lonicera spp.	Viburnum	Viburnum thus
Indian Hawthorn	Raphiolepis indica	Wisteria	Wisteria spp.
Jasmine	Jasminum spp.	Yellow Sage/Shrub	Lantana camara
		Verbena	
	1		

DIRECTIONS FOR ANNUAL GRASSES IN ORNAMENTALS

- Apply only to actively growing grasses at specified weed heights.
- Apply when the first grass weed species in a mixed grass weed population reaches the specified growth stage for treatment.
- Use the high rate under heavy grass pressure and/or when grasses are at maximum height.



GRASS SPECIES	SCIENTIFIC NAME	WEED*	APPLICATION RATES	
		HEIGHT (inches)	MINIMUM RATE fl. oz./A ⁽¹⁾	MAXIMUM RATE ⁽²⁾
Barnyardgrass	Echinochloa crus-galli	2 to 8	12	32
Broadleaf Signalgrass	Brachiaria platyphylla	2 to 6	12	32
Brome	- Taomana prasypnyna	- 10 0		
California	Bromus carinatus	2 to 6	12	32
Cheat	Bromus secalinus	2 to 6	12	32
Downy	Bromus tectorum	2 to 6	12	32
Ripgut	Bromus diandrus	2 to 6	12	32
Canarygrass	Phalaris canariensis	1 to 4	12	32
Crabgrass	Traiding currenties	1 10 4	12	02
Hairy	Digit aria adscendens	2 to 6**	12	32
Large	Digitaria sanguinalis	2 to 6**	12	32
Smooth	Digitaria ischaemum	2 to 6**	12	32
	Digitaria ciliaris	2 to 6**	12	32
Southern	Dactyloctenium aegyptium	2 to 6**	12	32
Crowfootgrass Fall Panicum	Panicum dichotomiflorum	2 to 8	12	32
Field Sandbur	Cenchrus incertus	2 to 6	12	32
	Centinus incertus	2100	12	32
Foxtail	Setaria faberi	2 to 12	12	32
Giant	Setaria viridis	2 to 8	12	32
Green	Setaria glauca	2 to 8	12	32
Yellow	Eleusine indica	2 to 6**	12	32
Goosegrass	Rottboellia cochin	2 to 6	12	32
Itchgrass	Echinochloa colona	2 to 6	12	32
Junglerice	l .	j .	12	32
Lovegrass (Stinkgrass)	Era grostis cilianensis	2 to 6	12	32
Rabbitsfootgrass	Polypogon monspeliensis	1 to 4	12	32
Red Rice	Oryza sativa	1 to 3	12	32
Ryegrass	Lalium namatum	245.6	12	32
Hardy	Lolium remotum	2 to 6	12	32
Italian	Lolium multiflorum	2 to 6	12	32
Seedling Johnsongrass	Sorghum halepense	4 to 10	12	32
Shattercane	Sorghum bicolor	6 to 18		32
Southwestern Cupgrass	Eriochloa gracilis	2 to 6	12	32
Sprangletop	l anthony language	0.45.0	10	22
Amazon	Lepthochloa panicoides	2 to 6	12	32
Bearded	Leptochloa fascicularis	2 to 6	12	32
Mexican	Leptochloa uninervia	2 to 6	12	32
Red _	Leptochloa filiformis	2 to 6	12	32
Texas Panicum	Panicum texanum	2 to 6	12	32
Volunteer Cereals			1.0	
Barley	Hordeum vulgare	2 to 6	12	32
Oats	Avena sativa	2 to 6	12	32
Rye	Secale cereale	2 to 6	12	32
Wheat	Triticum aestivum	2 to 6	12	32
Volunteer Corn	Zea mays	4 to 12	12	16
Volunteer Corn	Zea mays	12 to 24	12	32
Volunteer Grain Sorghum	Sorghum bicolor	8 to 12	12	ىنى 32
Wild Oats	Avena fatua	2 to 6	12	32
Wild Proso Millet	Panicum miliaceum	2 to 10	12	32
Witchgrass	Panicum capilare	2 to 8	12	32 : ', , '
Woolly Cupgrass	Eriochloa villosa	2 to 8	12	32

^{*}Generally occurs between 3-leaf stage and tillering.

**Length of lateral growth.

(1) 16 fl. oz/A = approximately 0.4 fl. oz./1000 sq. ft.

(2) 32 fl. oz./A = approximately 0.8 fl. oz./1000 sq. ft.

DIRECTIONS F	OR ANNUAL BLUEGRASS CONTI	ROL WITH TAPOUT IN O	RNAMENTALS	
GRASS SPECIES	WEED STAGE	APPLICATION RATES		
,		MINIMUM RATE fl. oz./A	MAXIMUM RATE fl. oz./A	
Annual Bluegrass (Poa annua)	To 4-leaf	12	32	

Apply under favorable soil moisture and humidity that exists within a few days after rainfall or within 7 days after irrigation. Grass needs to be actively growing at time of application(s).

Apply at weed stage indicated on the label, as reduced control can be expected with more mature annual bluegrass.

Use the high rate under heavy grass pressure and/or when annual bluegrass is more mature.

DIRECTIONS FOR PERENNIAL GRASSES IN ORNAMENTALS

- Apply only to actively growing grasses at specified weed heights.
- Apply when the first grass weed species in a mixed grass weed population reaches the specified growth stage for treatment.
- Use the high rate under heavy grass pressure and/or when grasses are at maximum height.

GRASS SPECIES	WEED HEIGHT	APPLICATI	ON RATES
,	(inches)	MINIMUM RATE fl. oz./A ⁽¹⁾	MAXIMUM RATE ⁽²⁾ fl. oz./A
Bermudagrass (Cynodon dactylon)			
First Application	3 (or up to 6'runners)	12	32
Repeat Application(s) (if regrowth occurs)	3 (or up to 6' runners)	12	32
Foxtail Barley (Hordeum jubatum)			
First Application	2 to 6	12	
Repeat Application(s) (if regrowth occurs)	2 to 6	12	32
, topoat, ppca.ici,(e) (ii. regionia)			32
Quackgrass (Elytrigia repens)			
First Application	4 to 8	12	
Repeat Application(s) (if regrowth occurs)	4 to 8	12	. 32
, topodi, topo		. —	32
Rhizome Johnsongrass (Sorghum			
halepense) First Application	12 to 24	2	
Repeat Application(s) (if regrowth occurs)	6 to 18	9	32
, reposit representation (in regional exercise)			16
Wirestem Muhly (Muhienbergia frondosa)			
First Application	4 to 8	12	
Repeat Application(s) (if regrowth occurs)	4 to 8	12	32
Topout rippinguion(o) (in regional essure)	, 15 5	· -	32

 $[\]frac{(1)}{(2)}$ 16 fl. oz./A = approximately 0.3 fl. oz./000 sq. ft.

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^{(2) 32} fl. oz./A = approximately 0.8 fl. oz./1000 sq. ft.

RESTRICTIONS AND LIMITATIONS

- Do not apply more than 64 fl oz of WEED REAPER GRASS CONTROL per acre per year on ornamentals
- Do not apply if rain is expected within 1 hour of application, as control may be unsatisfactory.
- Avoid getting spray or spray drift on susceptible grasses as injury will occur.
- Minor leaf spotting can occur on treated plants under certain conditions. New foliage is not affected.
- Avoid spraying in windy conditions (windy conditions are when winds are greater than 10 miles per hour).
- Avoid spraying when winds are gusty.
- Do not apply under conditions of stress. Applying <u>WEED REAPER GRASS CONTROL</u> under conditions that do
 not promote active grass growth will reduce herbicide effectiveness. These conditions include drought, excessive
 water, extremes in temperature, low humidity and grasses either partially controlled or stunted from prior pesticide
 applications. Grasses under these kinds of stressful conditions will not absorb and translocate <u>WEED REAPER GRASS CONTROL</u> effectively, and will be less susceptible to herbicide activity.

CONDITIONS OF SALE – LIMITED WARRANTY AND LIMITATIONS OF LIABILITY AND REMEDIES Read the Conditions of Sale - Warranty and Limitations of Liability and Remedies before using this product. If the terms are not acceptable, return the product, unopened, and the full purchase price will be refunded.

The directions on this label are believed to be reliable and should be followed carefully. Insufficient control of pests and/or injury to the crop to which the product is applied may result from the occurrence of extraordinary or unusual weather conditions, the failure to follow the label directions, or good application practices, all of which are beyond the control of Helena Chemical Company (the "Company") or seller. In addition, failure to follow label directions may cause injury to crops, animals, man or the environment. The Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purpose referred to in the directions for use subject to the factors noted above which are beyond the control of the Company. The Company makes no other warranties or representations of any kind express or implied, concerning the product, including no implied warranty of merchantability or fitness for any particular purpose, and no such warranty shall be implied by law.

The exclusive remedy against the Company for any cause of action relating to the handling or use of this product shall be limited to, at Helena Chemical Company's election, one of the following:

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

To the extent consistent with applicable law, the Company shall not be liable and any and all claims against the Company are waived for special, indirect, incidental, or consequential damages or expense of any nature, including, but not limited to, loss of profits or income. The Company and the seller offer this product and the buyer and user accept it, subject to the foregoing conditions of sale and limitation of warranty, liability and remedies.

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