

5905-578

8/19/2010

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

AUG 19 2010

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

Helena Chemical Company
c/o Cheryl Wagner
Wagner Regulatory Associates, Inc.
P.O. Box 640
Hockessin, DE 19707

Subject: Notification: Revised Container Disposal Instructions per PR Notice 2007-4:
Tapout (formerly HM-0714)
EPA Reg. No. 5905-578
Your Application Dated July 9, 2010, as Amended by Email August 19, 2010

Dear Ms. Wagner:

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

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

Please be reminded that 40 CFR Part 156.140(a)(4) requires that a batch code, lot number, or other code identifying the batch of the pesticide distributed and sold be placed on nonrefillable containers. The code may appear either on the label (and can be added by non-notification/PR Notice 98-10) or durably marked on the container itself.

If you have any questions, please call me directly at (703) 305-1243 or Susan Stanton of my staff at (703) 305-5218.

Sincerely,

A handwritten signature in cursive script that reads "Susan L. Stanton, for".

Kathryn Montague, Product Manager 23
Herbicide Branch
Registration Division (7505P)
Office of Pesticide Program



United States
Environmental Protection Agency
Washington, DC 20460

X

Registration

OPP Identifier Number

Amendment

Other

Application for Pesticide - Section I

1. Company/Product Number 5905-578	2. EPA Product Manager K. Montague	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) HM-0714	PM# 23	
5. Name and Address of Applicant (Include Zip Code) Helena Chemical Company c/o Wagner Regulatory Associates, Inc. P.O. Box 640 Hockessin, DE 19707 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(I), my product is similar or identical in composition and labeling to: EPA Reg. No. Product Name	

Section - II

NOTIFICATION

- ☐ 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.

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Explanation: Use additional page(s) if necessary. (For Section I and Section II.)

Notification of label change per PR Notice 2007-4. This notification is consistent with the provisions of PR Notice 2007-4 and EPA Regulations at 40 CFR 156.10, 154.140, 156.144, 156.146, and 156.156. 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 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the requirements 40 CFR 156.10, 156.140, 156.144, 156.146, and 156.156, this product 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:

Child-Resistant Packaging <input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If "Yes" No. per Unit Packaging wgt. container	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If "Yes" No. per Package wgt. container	2. Type of Container <input type="checkbox"/> Metal <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) HDPE lined bags
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* Certification must be submitted

3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container	4. Size(s) Retail Container 1 gal., 2.5 gal., 30 gal., 55 gal. 250 gal.	5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product
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6. Manner in Which Label is Affixed to Product <input checked="" type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled	<input type="checkbox"/> Other _____ adhesive backed label _____
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Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)

Name Cheryl Wagner	Title Agent for Helena Chemical Company	Telephone No. (Include Area Code) (302) 234 8551
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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 under applicable law.

5. Date Application Received

(Stamped)

2. Signature <i>Cheryl Wagner</i>	3. Title Agent for Helena Chemical Company
4. Typed Name Cheryl Wagner	5. Date July 9, 2010

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July 9, 2010



WRA

Wagner Regulatory Associates, Inc.
P.O. Box 640
7460 Lancaster Pike, Suite 9
Hockessin, Delaware 19707

Document Processing Desk (NOTIF)
ATTN: Ms. Kathryn Montague, PM 23
Registration Division (7504P)
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, Virginia 22202-4501

Dear Ms. Montague:

Re: HM-0714
EPA Registration Number 5905-578
Notice of Revised Storage & Disposal Label Language

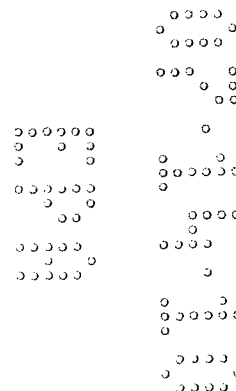
Wagner Regulatory Associates, Inc., on behalf of Helena Chemical Company, hereby notifies the Agency that the storage and disposal section of the subject label as been revised in accordance with PR Notice 2007-4. Enclosed for the Agency's file is:

- Letter from Helena Chemical Company authorizing Wagner Regulatory to serve as Agent
- EPA Notification form (EPA Form 8570-1)
- One copy of revised labeling

Please feel free to contact me at (302) 234-8551 you have any questions or require additional information.

Respectfully submitted,

Cheryl Wagner
Agent for Helena Chemical Company



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HM-0714

Active Ingredient

*Clethodim	By Wt. 12.6%
Other Ingredients.....	87.4%
Total.....	100.0%

Contains Petroleum Distillates

*(E)...2...[1 -[[[(3-chloro-2-propenyl)oxy]imino]propyl]-5-[2-(ethylthio)propyl]-3-hydroxy-2-cyclohexen-1-one]

NOTIFICATION

Contains 0.97 lbs. Clethodim per gal.

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KEEP OUT OF REACH OF CHILDREN CAUTION

EPA Reg. No. 5905-578

EPA Est. No. 5905-IA-001

SN: 020909

NET CONTENTS: 1 GAL. (3.785 L)
2.5 GAL. (9.46 L)

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS

CAUTION

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. Harmful if swallowed.

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 the 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 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:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
IF INHALED:	<ul style="list-style-type: none"> • 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.
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 (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 pneumonia. If ingested, probable mucosal damage may contraindicate the use of gastric lavage. May pose an aspiration pneumonia hazard. Contains petroleum distillate.	

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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 G on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear: long-sleeved shirt and long pants, chemical-resistant gloves such as barrier laminate or viton ≥ 14 mils, shoes plus socks and protective eyewear.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If there are no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

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.

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Wild Rice: Hays County, Texas.

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.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

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

Do not enter or allow worker entry into treated areas during the restricted-entry interval. (REI) of 24 hours.

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 over short-sleeved shirt and short pants, chemical-resistant gloves such as barrier laminate or viton ≥ 14 mils and shoes plus socks.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries 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 containers only. Keep container closed when not in use. Do not store near food or feed. In case of spill on floor or paved surfaces, mop and remove to chemical waste storage area until proper disposal can be made if product cannot be used according to the label.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative of the nearest EPA Regional Office for guidance in proper disposal methods.

CONTAINER DISPOSAL: Non-refillable containers (1, 2.5, 30 & 55 gallon): Do not reuse or refill this container. Offer for recycling, if available. Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

Non-Refillable (<5 gallons): Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container $\frac{1}{4}$ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Non-Refillable (>5 gallons): Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container $\frac{1}{4}$ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later

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use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Refillable Container (250 gallon & bulk): Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. 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 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

TANK MIXES

NOTICE: Tank mixing or use of this product with any other product which is not specifically and expressly authorized by the label shall be the exclusive risk of user, applicator and/or application advisor.

Read and follow the entire label of each product to be used in the tank mix with this product.

GENERAL INFORMATION

FOR USE ON: Alfalfa, Bean (dry) and Pea (shelled)¹, Bean and Pea (succulent shelled)², Canola*, Clover (grown in Idaho, Oregon and Washington only), Conifers, Cotton, Fallow Land (and other non-producing agricultural areas), Flax*, Hops, Legume Vegetables (edible podded)³, Mint, Non-Bearing Food Crops, Non-Crop or Non-Planted Areas, Peanut (including perennial), Safflower, Sesame, Soybean, Sunflower.

***Not for use in California**

¹ Other Bean (dry) and Pea (shelled) crops approved for use with **HM-0714** include: Bean (*Lupinus* spp.), grain lupin, sweet lupin, white lupin and white sweet lupin; Bean (*Phaseolus* spp.), field, kidney, lima (dry), navy, pinto and tepary; Bean (*Vigna* spp.), adzuki bean, black-eyed pea, catjang, cowpea, crowder pea, moth bean, mung bean, rice bean, Southern pea, urd bean, broad (dry), chickpea (garbanzo), guar, lablab bean and lentil; Pea (*Pisum* spp.), field and pigeon.

² Other Bean & Pea (succulent shelled) crops approve for use with **HM-0714** include: Bean (*Phaseolus* spp.), broad bean (succulent), lima bean (green); Bean (*Vigna* spp.), black-eyed pea, cowpea, Southern pea; Pea (*Pisum* spp.), English pea, garden pea, green pea and pigeon pea.

³ Other Edible Podded Legume Vegetable crops approved for use with **HM-0714** include: Bean (*Phaseolus* spp.), runner, snap and wax; Bean (*Vigna* spp.), asparagus, chinese longbean, moth, yardlong, jackbean; Pea (*Pisum* spp.), dwarf, edible-pod, snow, sugar snap, pigeon and sword bean.

HM-0714 is a selective postemergence herbicide for control of annual and perennial grasses. **HM-0714** does not control sedges or broadleaf weeds.

Control Symptoms

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.

APPLICATION INFORMATION

Timing of Applications

Apply **HM-0714** postemergence to actively growing grasses according to rate table recommendations. Applications made to grass plants stressed by insufficient moisture, hot or cold temperatures, or to grass plants exceeding recommended growth stages may result in unsatisfactory control. Do not apply under these conditions.

In arid regions where irrigation is used to supplement limited rainfall, **HM-0714** should be applied, as soon as possible, after irrigation (within 7 days). In arid regions, a second application of **HM-0714** will generally provide more effective control of perennial grass weeds than a single application. Make second application to actively growing grass 2 to 3 weeks after emergence of new growth.

Cultivation of treated grasses 7 days prior to or within 7 days after application of **HM-0714** may reduce weed control.

Ground Application

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

Air Application

Use a minimum of 3 gals of spray solution per acre unless otherwise directed in this label. Increase spray volumes up to 10 gals as grass or crop foliage becomes dense.

Spot Treatment

When using hand sprayers or high volume sprayers utilizing hand guns, mix 1/3 to 2/3% (0.44 oz. to 0.85 oz. per gal.) **HM-0714** and treat to wet vegetation, while not allowing runoff of spray solution. For uses requiring crop oil concentrate; include crop oil concentrate at 1% (1.3 oz. per gal.) by volume. For uses requiring nonionic surfactant, include non-ionic surfactant at 1/4% (0.33 oz. per gal.) by volume.

NOTE: If **HM-0714** is applied as a spot treatment care should be taken to not exceed the maximum rate allowed on a "per acre" basis or crop injury may occur.

RESTRICTIONS AND LIMITATIONS**GENERAL**

- Do not apply if rain is expected within 1 hour of application, as control may be unsatisfactory.
- Do not plant rotational crops until 30 days after application of **HM-0714** unless crop is listed on **HM-0714** label.
- Do not apply a postemergence broadleaf herbicide within one day following application of **HM-0714** or reduced grass control may result.
- Do not apply under conditions of stress. Applying **HM-0714** 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 **HM-0714** 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 **HM-0714** (0.25 lb a.i) per acre per season.

Optimal perennial grass control can be obtained if rhizomes or stolons are cut up by preplant tillage practices (disking, plowing, etc.) to stimulate maximum emergence of grass shoots. Cultural practices, such as continuous no-tillage in which the perennial grass rhizomes or stolons are not cut up, results in a very staggered, non-uniform weed emergence. Due to this non-uniform weed emergence, no fewer than two **HM-0714** applications per season per year are recommended at the appropriate weed-growth stage rate under continuous no-till conditions.

Grass crops such as corn, rice, small grains, sorghum or turf, etc. are highly sensitive to **HM-0714**.

Always read and follow the restrictions and limitations for all products whether used alone or in a tank mix. The most restrictive labeling of any product used applies in tank mixtures, including all crop rotation and other crop restrictions.

Tank mixes of **HM-0714** and broadleaf herbicides may result in reduced grass control. If grass regrowth occurs, an additional application of **HM-0714** may be necessary.

SPRAY DRIFT MANAGEMENT

- Do not allow spray from ground or aerial equipment to drift onto adjacent land or crops. When drift may be a problem, do everything possible to reduce spray drift, including:
- Do not apply when conditions are favorable for drift (high temperatures, drought and low relative humidity), especially when sensitive plants are located nearby.
- Do not spray if wind speed is 10 mph or greater. If sensitive crops or plants are downwind, extreme caution must be used under all conditions.
- Do not spray if winds are gusty.
- Do not apply when a temperature inversion exists. If inversion conditions are suspected, consult with local weather services before making an application.
- Do not allow **HM-0714** to come in contact with desirable grass crops such as corn, rice, small grains, sorghum, or turf, as these and other grass crops will be injured or killed.

Further reductions in drift can be obtained by:

1. Using large droplet size sprays. Do not use nozzles that produce small droplets. Orient nozzles downward and slightly backward as needed to reduce drift for ground applications.
2. Orienting nozzles straight back with the windstream, using straight stream orifices for aerial applications. Use the lowest number of nozzles practical with the largest possible orifice size to obtain the minimum 3 GPA volume. Application height and boom length should be set according to manufacturer's instructions to minimize drift.
3. Increasing the volume of spray mixture (for example a minimum of 10 GPA for ground applications) by using higher flow rate nozzles. Using lower pressure with the appropriate nozzle to obtain higher volumes will also reduce drift.

4. Applying as close to target plants as practical while maintaining a good spray pattern for adequate coverage.

Do not apply under conditions involving possible drift to food, forage or other plantings that might be damaged or the crops thereof rendered unfit for sale, use or consumption.

RESISTANCE MANAGEMENT

HM-0714 is a Group 1 herbicide. Any weed population may contain or develop plants naturally resistant to HM-0714 and other Group 1 herbicides. Weed species with acquired resistance to Group 1 may eventually dominate the weed population if Group 1 herbicides are used repeatedly in the same field or in successive years as the primary method of control for targeted species. This may result in partial or total loss of control of those species by HM-0714 or other Group 1 herbicides. Repeated use of HM-0714 (or similar postemergence grass herbicide with the same mode of action) may lead to the selection of naturally occurring biotypes that are resistant to these products in some grass species.

If poor performance occurs and cannot be attributed to adverse weather or application conditions, a resistant biotype may be present. This is most likely to occur in fields where other control strategies such as crop rotation, mechanical removal and other classes of herbicides are not used from year to year.

To delay herbicide resistance consider:

- Avoiding the consecutive use of HM-0714 or other target site of action Group I herbicides that have similar target site of action, on the same weed species.
- Using tank mixtures or premixes with herbicides from different target site of action groups as long as the involved products are all registered for the same use, have different sites of action, and are both effective at the tank mix or prepack rate on the weed(s) of concern.
- Basing herbicide use on a comprehensive IPM program.
- Monitoring treated weed populations for loss of field efficacy.
- Contacting your local extension specialist, certified crop advisors, and/or manufacturer for herbicide resistance management and/or integrated weed management recommendations for specific crops and resistant weed biotypes.

Table 1. CROP SPECIFIC USE DIRECTIONS, RESTRICTIONS AND LIMITATIONS FOR HM-0714

Crop ⁽¹⁾	Minimum Time From Application to Harvest (PHI)	Annual Grass Use Rate Per Acre ⁽²⁾	Perennial Grass Use Rate Per Acre ⁽²⁾	Adjuvant Recommendation ⁽³⁾ (Use a CPDA Certified adjuvant when possible)	Ammonium Sulfate Recommendation ⁽⁴⁾	Special Use Instructions And Restrictions
Alfalfa, Seedling	15 days before grazing, feeding or harvesting (cutting) for forage or hay	9 to 16 fl oz	12 to 32 fl oz	NIS at 0.25% v/v or COC/MSO at 1.1 qt/A Or 1% v/v See tank mix label for specific adjuvant recommendations,	2.5 to 4 lbs/A	Do not apply more than 32 fl oz/A per application. Do not apply more than 64 fl oz/A (0.5 lb a.i./A) per season. For repeat applications make on a minimum of a 14 day interval.
Alfalfa, Established including: Sainfoin, Holy clover, Birdsfoot trefoil	15 days before grazing, feeding or harvesting (cutting) for forage or hay	12 to 16 fl oz	12 to 32 fl oz	NIS at 0.25% v/v or COC/MSO at 1 qt/A 1% v/v See tank mix label for specific adjuvant recommendations. (Use a CPDA Certified adjuvant when possible) _v	2.5 to 4 lbs/A	Do not apply more than 32 fl oz/A per application. Do not apply more than 64 fl oz/A (0.5 lb a.i./A) per season. For repeat applications make on a minimum of a 14 day interval.

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Bean, Dry including: Bean (<i>Lupinus</i> spp.) Grain Sweet White White Sweet Bean (<i>Phaseolus</i> spp.) Field Kidney Lima (dry) Navy Pinto Tepary Bean (<i>Vigna</i> spp.) Adzuki Bean Black-eyed Pea Catjang Cowpea Crowder Pea Moth Bean Mung Bean Rice Bean Southern Pea Urd Bean Broad (dry) Chickpea (garbanzo) Guar Lablab Bean Lentil	30 days	9 to 16 fl oz ⁽⁵⁾	12 to 32 fl oz	NIS at 0.25% v/v (Use a CPDA Certified adjuvant when possible)	None	Do not apply more than 32 fl oz/A per application. For repeat applications make on a minimum of a 14 day interval. Do not apply more than 64 fl. oz/A (0.5 lb a/A) per season.
Bean, Succulent Shelled including: Bean (<i>Phaseolus</i> spp.) Broad Bean (succulent) Lima Bean (green) Bean (<i>Vigna</i> spp.) Black-eyed Pea Cowpea Southern Pea	21 days	9 to 16 fl oz ⁽⁵⁾	12 to 16 fl oz	NIS at 0.25% v/v (Use a CPDA Certified adjuvant when possible)	None	Do not apply more than one (1) application per acre per season.
Canola (Not for use in California)	70 days	9 to 12 fl oz ⁽⁵⁾	12 ft. oz.	NIS at 0.25% v/v Use a CPDA Certified adjuvant when possible)	None	Do not apply after crop has begun bolting. Crop injury may occur when HM-0714 is applied during the bloom period. Do not apply more than 12 fl oz/A in a single application. Do not apply more than

Clover	15 days before grazing, feeding or harvesting (cutting) for forage or hay	9 to 16 fl oz	12 to 32 fl oz	NIS at 0.25% v/v Use a CPDA Certified adjuvant when possible)	2.5 to 4 lbs/A	12 fl oz/A per season. For use on clover grown in the states of Idaho, Oregon and Washington only. Do not more than 32 fl oz in a season. For repeat applications make on a minimum of a 14 day interval.
Cotton	60 days	9 to 16 fl oz	12 to 32 fl oz	NIS at 0.25% v/v or COC/MSO at 1 qt/A or 1% v/v See tank mix label for specific adjuvant recommendations (Use a CPDA Certified adjuvant when possible)	2.5 to 4 lbs/A	Do not graze treated fields or feed treated forage or hay to livestock. Do not apply more than 32 fl oz/A in a single application. Do not apply more than 64 fl oz/A (0.5 lb a.i/A) per season. For repeat applications make on a minimum of a 14 day interval.
Fallow Land Conifer Trees (and other non- producing agricultural areas) Non-Crop or Non-Planted Areas	N/A	9 to 16 fl oz.	12 to 32 fl oz	NIS at 0.25% v/v or COC/MSO at 1 qt./A or 1% v/v (Use a CPDA Certified adjuvant when possible)	2.5 to 4 lbs./A	Do not plant any crop for 30 days after application unless Clethodim is registered for use in that crop. Do not apply more than 32 fl oz/A per application. Do not apply more than 64 fl. oz/A (0.5 lb. a.i/A) per season. For repeat applications make on a minimum of a 14 day interval.
Flax (Not for use in California)	60 days	9 to 16 fl. oz. ⁽⁵⁾	12 to 16 fl oz.	NIS at 0.25% v/v (Use a CPDA Certified adjuvant when possible)	None	Apply prior to bloom. Crop injury may occur when HM-0714 is applied during the bloom period. Do not apply more than 16 fl oz./A per application. Do not apply more than 32 fl. oz. in a season. For repeat applications make on a minimum of a 14 day interval.

Hops	21 days	9 to 16 fl oz.	12 to 16 fl oz.	NIS at 0.25% v/v (Use a CPDA Certified adjuvant when possible)	None	Do not apply more than 16 fl. oz./A in a single application. For repeat application make on a minimum of a 14 day interval. Do not apply more than 64 fl. oz./A (0.5 lb. a.i/A) per season.
Legume Vegetables, Edible Podded including: Bean (<i>Phaseolus</i> spp.) Runner Snap Wax Bean (<i>Vigna</i> spp.) Asparagus Chinese Longbean Moth Yardlong Jackbean Pea (<i>Pisum</i> spp.) Dwarf Edible-pod Snow Sugar Snap Pigeon Sword Bean	21 days	9 to 16 fl oz. ⁽⁵⁾	12 to 16 fl oz.	NIS at 0.25% v/v (Use a CPDA Certified adjuvant when possible)	None	Do not apply more than 16 fl oz/A in a single application. Do not apply more than one (1) application per acre per season. For peas apply before bloom, but no later than 21 days before harvest.
Mint	21 days	9 to 16 fl. oz.	12 to 32 fl. oz.	NIS at 0.25% v/v or COC/MSO at 1 qt./A or 1%v/v (Use a CPDA Certified adjuvant when possible)	2.5 to 4 lbs./A	Do not apply more than 32 fl. oz./A in a single application. Do not apply more than 64 fl. oz./A (0.5 lb. a/A) per season. For repeat applications make on a minimum of a 14 day interval.
Non-Bearing Food Crops ⁽⁷⁾	N/A N/A	9 to 16 fl. oz. 9 to 16 fl. oz.	12 to 32 fl. oz. 12 to 16 fl. oz.	NIS at 0.25% v/v (Use a CPDA Certified adjuvant when possible)	None	Do not apply more than 64 fl. oz./A (0.5 lb. a/A) per season. For repeat applications make on a minimum of a 14 day interval. Sugar maples cannot be tapped for syrup within one year of HM-0714 application. Do not apply more than 16 fl oz./A in a single application to non-

						bearing food crops.
Pea, Shelled (<i>Pisum</i> spp.) Field Pigeon	30 days	9 to 16 fl oz ⁽⁵⁾	12 to 16 fl oz.	NIS at 0.25% v/v (Use a CPDA Certified adjuvant when possible)	None	Do not apply more than 16 fl. oz./A per application. Do not apply more than one (1) application per acre per season. Apply before bloom but not. later than 30 days prior to harvest. ⁽⁹⁾
Pea, Succulent Shelled (<i>Pisum</i> spp.) English Pea Garden Pea Green Pea Pigeon Pea	21 days	9 to 16 fl oz ⁽⁵⁾	12 to 16 fl oz	NIS at 0.25% v/v (Use a CPDA Certified adjuvant when possible)	None	Do not apply more than 16 fl oz./A per application. Do not apply more than one (1) application per acre per season. Apply before bloom but not later than 21 days prior to harvest. ⁽⁹⁾
Peanut (including perennial)	40days	9 to 16 fl oz	12 to 32 fl oz	NIS at 0.25% v/v or COC/MSO at 1 qt/A or 1% v/v (Use a CPDA Certified adjuvant when possible)	2.5 to 4 lbs/A	Do not apply more than 32 V fl oz/A in a single application. Do not apply more than 64 fl oz/A (0.5 lb al/A) per season, except in Florida where the limit is 64 fl oz/A per year (perennial peanuts only). For repeat applications make on a minimum of a 14 day interval.
Safflower	70 days	9 to 16 fl. oz.	12-16 fl. oz.	NIS at 0.25% v/v (Use a CPDA Certified adjuvant when possible)	None	Do not apply more than 16 fl oz/A in a single application. For repeat applications make on a minimum of a 14 day interval. Do not apply more than 64 fl oz/A (0.5 lb al/A) per season.
Sesame	14 days	9to 16 fl oz	12to 16 fl oz	NIS at 0.25% v/v (Use a CPDA Certified adjuvant when possible)	None	Do not apply during flowering. Do not apply more than 16 fl oz/A in a single application. For repeat applications make on a minimum of a 14 day interval.

						Do not apply more than 64 fl oz/A (0.5 lb a.i./A) per season.
Soybean	60 days	9 to 16 fl oz ⁽⁵⁾	12 to 32 fl oz	NIS at 0.25% v/v or COC/MSO at 1 qt/A or 1% v/v See tank mix label for specific adjuvant recommendations. (Use a CPDA Certified adjuvant when possible)	2.5 to 4 lbs/A	Do not apply more than 32 fl oz/A per application. Do not apply more than 64 fl oz/A (0.5 lb a.i./A) per season. For repeat applications make on a minimum of a 14 day interval. Do not graze treated fields or feed treated forage or hay to livestock.
Sunflower	70 days	9 to 16 fl oz ⁽⁵⁾	12 to 32 fl oz	NIS at 0.25% v/v or COC/MSO at 1 qt/A or 1% v/v See tank mix label for specific adjuvant recommendations. (Use a CPDA Certified adjuvant when possible)	2.5 to 4 lbs/A	Do not apply more than 32 fl. oz./A per application. Do not apply more than 64 fl oz/A (0.5 lb a.i./A) per season. For repeat applications make on a minimum of a 14 day interval.

N/A = Not Applicable

1. See annual and perennial grass control tables for specific use rate recommendations.
2. Non-ionic surfactant (NIS) in this case refers to an adjuvant containing at least 80% non-ionic surfactant. Crop oil concentrate in this case refers to both crop oil concentrate and crop oil concentrate blends. Acceptable crop oil concentrates would be those that contain a minimum of 80% oils and 15% emulsifier. Acceptable crop oil concentrate blends would be those that contain a minimum of 60% oils and 25-40% surfactants and emulsifiers. A crop oil concentrate must contain either a petroleum or vegetable oil base and must meet all the following criteria: be non-phytotoxic, contain only EPA-exempt ingredients, provide good mixing quality and be successful in local experience. Highly refined vegetable oils have proven more satisfactory than unrefined vegetable oils. **Use a CPDA Certified Adjuvant when possible.**
3. If Ammonium Sulfate is going to be used it must be spray grade ammonium sulfate. The use of ammonium sulfate or Ammonium Sulfate Replacement products does not take the place of the required adjuvant.
4. See DIRECTIONS FOR REDUCED RATE USE TO CONTROL SMALL ANNUAL GRASSES table.
5. If **HM-0714** is applied as a spot treatment to non-bearing food crops care should be taken to not exceed the maximum rate allowed on a "per acre" basis or crop injury may occur.
6. In California, 14 days spray intervals are recommended between the application of **HM-0714** and liquid nitrogen and other herbicide applications. Injury to crop may occur when shorter intervals are observed.
7. Applications of **HM-0714** to peas during the bloom period could result in severe crop injury, including loss of yield and delayed maturity.
8. See **HM-0714 TANK MIX WITH BROADLEAF HERBICIDES FOR THE CONTROL OF VOLUNTEER CORN (INCLUDING ROUNDUP READY®) IN SOYBEAN.**

RECOMMENDATIONS FOR ANNUAL GRASSES ALL CROPS

- Apply only to actively growing grasses at recommended weed heights.
- Apply when the first grass weed species in a mixed grass weed population reaches the recommended growth stage for treatment.
- Use the high rate under heavy grass pressure and/or when grasses are at maximum height.
- Do not exceed the maximum per application rate listed in Table 1, CROP SPECIFIC USE DIRECTIONS, RESTRICTIONS AND LIMITATIONS FOR **HM-0714**

GRASS SPECIES	SCIENTIFIC NAME	WEED HEIGHT (inches)	APPLICATION RATES	
			MINIMUM RATE	Maximum rate ⁽¹⁾

			fl. oz./A	Fl. oz./A
Barnyardgrass	<i>Echinochloa crus-galli</i>	2 to 8	9	16
Broadleaf Signalgrass	<i>Brachiaria platyphylla</i>	2 to 6	9	16
Brome				
California	<i>Bromus carinatus</i>	2 to 6	9	16
Cheat	<i>Bromus secalinus</i>	2 to 6	9	16
Downy	<i>Bromus tectorum</i>	2 to 6	9	16
Ripgut	<i>Bromus diandrus</i>	2 to 6	9	16
Canarygrass	<i>Phalaris canariensis</i>	1 to 4	9	16
Crabgrass				
Hairy	<i>Digitaria adscendens</i>	2 to 6**	9	16
Large	<i>Digitaria sanguinalis</i>	2 to 6**	9	16
Smooth	<i>Digitaria ischaemum</i>	2 to 6**	9	16
Southern	<i>Digitaria ciliaris</i>	2 to 6**	9	16
Crowfootgrass	<i>Dactyloctenium aegyptium</i>	2 to 6**	9	16
Fall Panicum	<i>Panicum dichotomiflor</i>	2 to 8	9	16
Field Sandbur	<i>Cenchrus incertus</i>	2 to 6	9	16
Foxtail				
Giant	<i>Setaria faberi</i>	2 to 12	9	16
Green	<i>Setaria viridis</i>	2 to 8	9	16
Yellow	<i>Setaria glauca</i>	2 to 8	9	16
Goosegrass	<i>Eleusine indica</i>	2 to 6**	9	16
Itchgrass	<i>Rottboellia cochinchinensis</i>	2 to 6	9	16
Junglerice	<i>Echinochloa colona</i>	2 to 6	9	16
Lovegrass (Stinkgrass)	<i>Eragrostis cilianensis</i>	2 to 6	9	16
Rabbitsfootgrass	<i>Polypogon monspeliensis</i>	1 to 4	9	16
Red Rice	<i>Oryza sativa</i>	1 to 3	9	16
Rygrass				
Hardy	<i>Lolium remotum</i>	2 to 6	9	16
Italian	<i>Lolium multiflorum</i>	2 to 6	9	16
Seedling Johnsongrass	<i>Sorghum halepense</i>	4 to 10	9	16
Shattercane	<i>Sorghum bicolor</i>	6 to 18	9	16
Southwestern Cupgrass	<i>Eriochloa gracilis</i>	2 to 6	9	16
Sprangletop				
Amazon	<i>Leptochloa panicoides</i>	2 to 6	9	16
Bearded	<i>Leptochloa fascicularis</i>	2 to 6	9	16
Mexican	<i>Leptochloa uninervia</i>	2 to 6	9	16
Red	<i>Leptochloa filiformis</i>	2 to 6	9	16
Texas Panicum	<i>Panicum texanum</i>	2 to 6	9	16
Volunteer Cereals ⁽³⁾				
Barley	<i>Hordeum vulgare</i>	2 to 6	9	16
Oats	<i>Avena sativa</i>	2 to 6	9	16
Rye	<i>Secale cereale</i>	2 to 6	9	16
Wheat ⁽²⁾	<i>Triticum aestivum</i>	2 to 6	9	16
Volunteer Corn ^(2,3)	<i>Zea mays</i>	Up to 12	6	12
Volunteer Corn ⁽³⁾	<i>Zea mays</i>	Up to 24	9	14
Volunteer Corn ^(2,3)	<i>Zea mays</i>	Up to 36	12	16
Volunteer Grain Sorghum	<i>Sorghum bicolor</i>	8 to 12	9	16
Wild Oats	<i>Avena fatua</i>	2 to 6	9	16
Wild Proso Millet	<i>Panicum miliaceum</i>	2 to 10	9	16
Witchgrass	<i>Panicum capillare</i>	2 to 8	9	16
Wooly Cupgrass	<i>Eriochloa villosa</i>	2 to 8	9	16

*Generally occurs between 3-leaf stage and tillering.

**Length of lateral growth.

1. Rates higher than 16 fl. oz./A may be applied in certain geographic areas, cropping situations or environmental conditions, where experience has shown that higher rates are needed for satisfactory control of annual grasses. In these situations, rates from 16 to 32 fl. oz./A may be applied. Do not apply more than 12 fl. oz./A of HM-0714 per application to canola.
2. When a cereal grain crop (such as wheat) is interseeded for crop establishment or is planted as wind breaks to aid crop establishment, the minimum HM-0714 use rate for control is 12 fl. oz./A.
3. Includes Roundup Read, Liberty Link® and IMI-CORN® volunteer corn; however not Sethoxydim-Resistant volunteer corn.

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**RECOMMENDATIONS FOR ANNUAL & PERENNIAL GRASS CONTROL
IN ESTABLISHED ALFALFA AND MINT WITH HM-0714**

GRASS SPECIES

**WEED SPECIES
AND SIZE**

APPLICATION RATES

Annual & Perennial Grasses Listed in Grass Tables

See Tables

See Table 1, CROP SPECIFIC
USE DIRECTIONS,
RESTRICTIONS AND
LIMITATIONS FOR HM-0714

Mowing: The best control of annual grasses can be achieved by applying HM-0714 before grass weeds are mowed. Once a grass is mowed it becomes tougher to control, as much of the available leaf surface has been removed. In areas without a killing frost, some annuals can over-winter after having been mowed multiple times. These grasses form large crowns and may contain many viable buds. These grasses, even though they may be an annual grass, may require repeated applications of HM-0714 for partial or complete control.

Irrigated Alfalfa and Mint: Irrigation practices can be very critical to the successful use of HM-0714 in established alfalfa and mint and may be necessary to initiate active growth of the weeds prior to application. Generally applications 2 to 4 days after irrigation are most effective. Irrigation made shortly after application (2 days) can be effective, but more consistent grass control occurs when the irrigation is made before the application.

Aerial Application: Apply HM-0714 in a minimum of 10 GPA in established alfalfa and mint when applying by air.

Annual Grass Control: Apply HM-0714 at the grass sizes indicated in the Recommendation for Annual Grass Table and rates indicated. If a grass has been cut, apply HM-0714 after active growth has resumed and regrowth has reached the minimum height and before it reaches the maximum height indicated. Apply before the alfalfa/mint canopy covers the grasses and interferes with the spray coverage. Some annual grasses are spring- and summer- germinating plants, while others are fall-germinating plants, and the time they are actively growing and most susceptible to HM-0714 may vary from region to region. Also some annuals germinate over an extended period of time, and because control of small grasses is desired, applications after each weed flush may be required. As a general rule spray spring and summer germinating grasses as early in the season as possible, after initial green-up. Spray fall - germinating weeds in the fall soon after they begin growing but before any damage is done due to frost. Late fall applications may be less effective due to environmental conditions, such as frost, slower plant growth or the onset of flowering.

Perennial Grass Control: HM-0714 effectively controls perennial grasses such as bermudagrass, Johnsongrass, quackgrass, wirestem muhly, tall fescue, foxtail barley and orchardgrass. Due in part to lack of tillage, perennial grasses are more difficult to control in a perennial crop such as established alfalfa or mint. A program of repeated applications is usually necessary for best results. The best way to control perennial grasses is to do so in the year of stand establishment before rhizomes and stolons become large and difficult to kill.

Use the high rate under heavy grass pressure and/or when grasses are at or near maximum height.

**DIRECTIONS FOR REDUCED RATE USE TO CONTROL SMALL ANNUAL GRASSES CANOLA, FLAX, LEGUME
VEGETABLES (DRY AND SUCCULENT), SOYBEAN AND SUNFLOWER
(REDUCED RATE RECOMMENDATIONS NOT FOR USE IN CALIFORNIA)**

- Apply only to actively growing grasses at recommended weed heights.
- Apply when the first grass weed species in a mixed grass weed population reaches the recommended growth stage for treatment.
- Regrowth by tillering may occur if application is made when plants are stressed by lack of moisture, excessive moisture, low or high temperatures and/or under very low humidity.

GRASS SPECIES	SCIENTIFIC NAME	WEED HEIGHT (inches)	RATE FL. OZ/ACRE ⁽¹⁾
Barnyardgrass	<i>Echinochloa crus-galli</i>	1 to 4	6
Broadleaf Signalgrass	<i>Brachiaria platyphylla</i>	1 to 4	8
Crabgrass			
Large	<i>Digitaria sanguinalis</i>	1 to 3*	6
Large	<i>Digitaria sanguinalis</i>	1 to 4*	8
Smooth	<i>Digitaria ischaemum</i>	1 to 3*	6

Smooth	<i>Digitaria ischaemum</i>	1 to 4*	8
Southern	<i>Digitaria char</i>	1 to 4*	8
Fall Panicum	<i>Panicum dichotomiflorum</i>	1 to 4	6
Foxtail			
Giant	<i>Setaria faberi</i>	1 to 4	6
Green	<i>Setaria viridis</i>	1 to 4	6
Millet	<i>Setaria italica</i>	1 to 4	8
Yellow	<i>Setaria glauca</i>	1 to 4	6
Seedling Johnsongrass	<i>Sorghum halepense</i>	1 to 6	8
Shattercane	<i>Sorghum bicolor</i>	4 to 10	6
Texas Panicum	<i>Panicum texanum</i>	1 to 4	8
Volunteer Cereals			
Barley	<i>Hordeum vulgare</i>	1 to 4	8
Oats	<i>Avena sativa</i>	1 to 4	8
Wheat	<i>Triticum aestivum</i>	1 to 4	8
Volunteer Corn**	<i>Zea mays</i>	4 to 12	6
Wild Proso Millet	<i>Panicum miliaceum</i>	1 to 6	6
Wild Oats	<i>Avena fatua</i>	1 to 4	8

*Length of lateral growth.

**Not S.R. Corn

(1) Always add a non-ionic surfactant at 0.25% v/v total spray volume unless crop specific restrictions and limitations advise otherwise.

RECOMMENDATIONS FOR PERENNIAL GRASSES (ALL CROPS)

- Apply only to actively growing grasses at recommended weed heights.
- Apply when the first grass weed species in a mixed grass weed population reaches the recommended growth stage for treatment.
- Use the high rate under heavy grass pressure and/or when grasses are at maximum height.
- Do not exceed the maximum per application rate listed in Table 1, CROP SPECIFIC USE DIRECTIONS, RESTRICTIONS AND LIMITATIONS FOR HM-0714.

GRASS SPECIES	WEED HEIGHT (inches)	APPLICATION RATE	
		MINIMUM RATE fl. oz./A	MAXIMUM RATE fl. oz./A

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Bermudagrass (<i>Cynodon dactylon</i>)			
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 (<i>Festuca arundinacea</i>)			
First Application	4 to 8	12	32
Repeat Application(s) (if regrowth occurs)	4 to 8	12	32
Foxtail Barley (<i>Hordeum jubatum</i>)			
First Application	2 to 6	12	32
Repeat Application (if regrowth occurs)	2 to 6	12	32
Orchardgrass (<i>Dactylis glomerata</i>)			
First Application	4 to 8	12	32
Repeat Application(s) (if regrowth occurs)	4 to 8	12	32
Quackgrass (<i>Elytrigia repens</i>)			
First Application	4 to 12	12	32
Repeat Application(s) (if regrowth occurs)	4 to 12	12	32
Rhizome Johnsongrass (<i>Sorghum halepense</i>)			
First Application	12 to 24	12	32
Repeat Application(s) (if regrowth occurs)	6 to 18	9	24
Wirestem Muhly (<i>Muhlenbergia frondosa</i>)			
First Application	4 to 8	12	32
Repeat Application(s) (if regrowth occurs)	4 to 8	9	24
Perennial Bluegrass			
[Roughstalk (<i>Poa trivialis</i>)]			
[Kentucky (<i>Poa prantensis</i>)]			
First Application	2 to 4	12	32
Repeat Application(s)	2 to 4	12	32
Bentgrass (<i>Agrostis</i> spp.)			
First Application	2 to 4	-	32
Repeat Application(s) (if regrowth occurs)	2 to 4		32

**RECOMMENDATIONS FOR ANNUAL BLUEGRASS CONTROL
WITH HM-0714
ALL CROPS**

GRASS SPECIES	WEED STAGE	APPLICATION RATES	
		MINIMUM RATE fl. oz./A	MAXIMUM RATE fl. oz./A
Annual Bluegrass (<i>Poa annua</i>)	to 4-leaf	12*	**
Apply under favorable soil moisture and humidity, which 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.			
See Table 1 for crop specific adjuvant recommendations.			
*Use a minimum of 17 fl. oz./A to control annual bluegrass in seedling and established alfalfa and mint.			
**See Special Use Instructions and Restrictions in Table 1, CROP SPECIFIC USE DIRECTIONS, RESTRICTIONS AND LIMITATIONS FOR HM-0714, for maximum application rates.			

**TANK MIXES
GENERAL INFORMATION**

The labels for each of the herbicides recommended for tank mixing with **HM-0714** are unique to the characteristics of those products and contain restrictions and limitations that may be more restrictive than the **HM-0714** label in certain considerations. Those concerns may include, but are not limited to:

1. Geographic restrictions - all products are not registered for use in all areas and rates may vary from one region of labeled use to another;
2. Crop rotation restrictions;
3. Applicator certification requirements;
4. Worker safety rules (e.g. protective clothing, reentry time, posting);
5. Soil type or soil characteristics (e.g. pH, OM);
6. Maximum dosage or number of applications per season;
7. Rain free period required; or
8. Application timing (e.g. pre-harvest interval)
9. Do not exceed the total season rates.

THE MOST RESTRICTIVE LABELING OF ANY PRODUCT USED IN A TANK MIX MUST BE FOLLOWED.

TANK MIX APPLICATION OF HM-0714 AND BROADLEAF HERBICIDES FOR CONTROL OF GRASSES AND BROADLEAF WEEDS

- Apply only to actively growing grass and broadleaf weeds at recommended height or growth stage listed on each label.
- Apply when the first grass or broadleaf weed species in a mixed population reaches the recommended height or growth stage for treatment.
- Apply under favorable soil moisture and humidity that exist a few days after rainfall or within seven days after irrigation.
- Always add the appropriate adjuvant to the spray mix at the rate recommended for each specific tank mix combination.
- Tank mix applications may sometimes result in reduced grass control and possible increases in crop injury as compared to either product used alone. If regrowth occurs, or an additional flush of new grass emerges, make a second application of **HM-0714**, as specified in the respective size and rate tables.
- Do not tank mix **HM-0714** when broadleaf weeds are tall and/or dense enough to prevent proper grass coverage.

MIXING INSTRUCTIONS

1. Fill clean spray tank 1/2 to 2/3 of desired level with clean water.
2. While agitating, add the correct amount of **HM-0714**. Agitation should create a rippling or rolling action on the water surface.
3. If tank mixing **HM-0714** with Other labeled herbicides, add water soluble bags first, followed by dry formulations, flowables, emulsifiable concentrates and then solutions. Prepare no more spray mixture than is required for the immediate spray operation.
4. Add any required adjuvants (crop oil concentrate, non-ionic surfactant and/or nitrogen solution).
5. Fill spray tank to desired level with water. **Agitation should continue until all spray solution has been applied.**

Failure to agitate the spray solution may result in improper mixing of the herbicides and unsatisfactory weed control. Mixing and compatibility qualities should be verified by a jar test.

INFORMATION ON ANTAGONISM

Tank mixes of **HM-0714** with postemergence broadleaf herbicides have shown some reduction or failure to control certain grass species which would have otherwise been controlled when **HM-0714** is applied alone. Activity of the postemergence broadleaf herbicide in the tank mix is not affected.

ALFALFA

Table 2. HM-0714 I EC TANK MIXES WITH BROADLEAF HERBICIDES FOR ALFALFA

(Refer to the recommendation tables above for specific grassed and growth stages.)

PRODUCT ⁽¹⁾	APPLICATION RATES/ACRE ⁽²⁾		SPRAY ADDITIVES			
	ANNUAL GRASSES	PERENNIAL GRASSES	GROUND APPLICATION		AIR APPLICATION	
			Adjuvant Recommendation	AMS	Adjuvant Recommendation	AMS
HM-0714	12 to 32	16 to 32	NIS at 0.25%	AMS at 2.5	NIS at 0.25%	17

+ 2,4-DB ⁽³⁾	fl. oz. Refer to 2,4- DB label	fl. oz. Refer to 2,4-DB label	v/v	lbs./A	v/v	lbs/100 gals of spray solution
HM-0714 + PURSUIT® DG ⁽⁴⁾ or PURSUIT ⁽⁴⁾	12 to 32 fl. oz. + 1.08 to 2.16 oz. or 3 to 6 fl. oz.	-	NIS at 0.25% v/v	AMS at 2.5 lbs./A	NIS at 0.25% v/v	17 lbs/100 gals. of spray solution
HM-0714 + BUCTRIL® 2L ⁽⁵⁾ or BUCTRIL GEL ^(5,6)	12 to 32 fl. oz. + 1.0 to 1.5 pts. or 0.5 to 0.75 pt.	-	NIS at 0.25% v/v	AMS at 2.5 lbs./A	NIS at 0.25% v/v	17 lbs/100 gals. of spray solution
HM-0714 + RAPTOR®	12 to 32 fl. oz. + 4 to 6 fl. oz.	-	NIS at 0.25% v/v	AMS at 2.5 lbs./A	NIS at 0.25% v/v	17 lbs/100 gals. of spray solution

1. Broadleaf weed control maybe reduced when grass populations are tall or dense enough to intercept the spray pattern and prevent them from receiving complete coverage. Tank mixing is not recommended in these situations.
2. If grass regrowth occurs or an additional flush of new grass emerges, make a second application of **HM-0714** alone (without a tank mix herbicide), according to the appropriate size and rate recommendations.
3. **HM-0714** plus 2,4-DB may increase the severity of crop injury when tank mixed. Alfalfa plants will generally outgrow this temporary crop injury within a few weeks.
4. Before using this tank mix, read and understand the PURSUIT or PURSUIT DG labels for geographical restrictions and restrictions regarding alfalfa growth stage and type. Failure to do so can result in crop injury to alfalfa. Do not feed, graze or harvest alfalfa for 30 days following an application of PURSUIT to alfalfa.
5. In the states of Washington, Oregon, Idaho, Montana, Wyoming, Colorado, Utah, Nevada and the western halves of North Dakota, South Dakota, Nebraska and Kansas: The **HM-0714** plus BUCTRIL or BUCTRIL GEL tank mix must be applied in the fall or spring to seedling alfalfa when the majority of the field has a minimum of 2 trifoliate leaves. Unacceptable crop injury may occur to alfalfa seedlings less than the 2 trifoliate leaf stage. **HM-0714** plus BUCTRIL or BUCTRIL GEL applications made when temperatures are expected to exceed 80°F at and 3 days following application can result in unacceptable crop injury. In the states not listed above, apply in the fall or spring to seedling alfalfa when the majority of the field has a minimum of 4 trifoliate leaves. When alfalfa stand is uneven and conditions favor leafburn, unacceptable crop injury may occur to alfalfa in the 2 trifoliate or smaller stage of growth. **HM-0714** plus BUCTRIL or BUCTRIL GEL applications made when temperatures are expected to exceed 70°F at and 3 days following application can result in unacceptable crop injury. Crop leaf burn can occur following **HM-0714** plus BUCTRIL or BUCTRIL GEL application. Warm, humid conditions may enhance leaf burn. New crop growth will not be affected.
6. Do not apply when alfalfa is under moisture, temperature, insect or disease stress or has been stressed by other pesticide carryover or application.
7. Always use a CPDA Certified Adjuvant when possible.

CANOLA

Table 3. REDUCED RATE HM-0714 TANK MIXES WITH BROADLEAF HERBICIDES FOR CANOLA
(Refer to the recommendation tables above for specific grasses and growth stages.)

PRODUCT	APPLICATION RATES/ACRE	ADJUVANT RECOMMENDATIONS	AMMONIUM SULFATE	
	ANNUAL GRASSES ⁽¹⁾		GROUND	AIR
HM-0714 ⁽²⁾ + LIBERTY® ⁽³⁾	8 to 10 fl. + 28 to 34 fl. oz.	NIS at 0.25% v/v	3 lbs./A	3 lbs./A
HM-0714 + STINGER® ⁽⁴⁾	8 to 10 fl. oz. + 0.33 pts./A	NIS at 0.25% v/v	3 lbs./A	3 lbs./A

1. Annual grasses and sizes controlled with these tank mixtures are those that are identified in the DIRECTIONS FOR REDUCED RATE USE TO CONTROL SMALL ANNUAL GRASSES table.

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2. Do not apply **HM-0714** tank mix during or after bolting or flowering or crop injury will occur.
3. For use only on **LIBERTY LINK®** Canola.
4. See **STINGER** label for weeds controlled.
5. Always use a CPDA Certified Adjuvant when possible.

COTTON

Table 4. HM-0714 TANK MIXED WITH COBRA AND MSMA APPLIED POST DIRECTED TO COTTON

PRODUCT ⁽¹⁾	APPLICATION RATES/ACRE ⁽²⁾		CROP OIL CONCENTRATE ⁽³⁾	COMMENTS
	ANNUAL GRASSES	PERENNIAL GRASSES	GROUND	
HM-0714 + COBRA + MSMA (4 lbs./gal.) OR MSMA (6.6 lbs./gal.)	12 to 16 fl. oz.	16 to 32 fl. oz.	1%	Reduce broadcast rate in proportion to the band area actually treated.
	See COBRA label for rates to control broadleaf weeds and height limitations for cotton. Refer to the HM-0714 label for weed height and species controlled.			
	See MSMA label for rates to control broadleaf weeds and height limitations for cotton. Refer to the HM-0714 label for weed height and species controlled.			

1. Broadleaf weed control may be reduced when grass populations are tall or dense enough to intercept the spray pattern and prevent them from receiving complete coverage. Tank mixing is not recommended in these situations.
2. If grass regrowth occurs or an additional flush of new grass emerges, make a second application of **HM-0714** alone (without a tank mix herbicide), according to the appropriate size and rate recommendations.
3. Always use a crop oil concentrate at the listed rate (but not less than 1 pt/A) in the finished spray volume.
4. If at the time of application, grass height is so tall that post-directed applications cannot get good coverage over the top of the grassy weeds, then poor control may result and a second (non-post directed) application of **HM-0714** may be necessary.
5. Always use a CPDA Certified Adjuvant when possible.

Table 5. HM-0714 TANK MIXED WITH GLYPHOSATE TO CONTROL EMERGED GRASSES IN COTTON AS A BROADCAST APPLICATION

PRODUCT	APPLICATION RATE/ACRE ⁽¹⁾		ADJUVANT		COMMENTS
	ANNUAL GRASSES	PERENNIAL GRASSES	Glyphosate formulation with built in adjuvant.	Glyphosate formulation without built in adjuvant.	
HM-0714 + GLYPHOSATE	9 to 16 fl. oz.	12 to 32 fl. oz.	Ammonium sulfate at 8.5 to 17 lbs. per 100 gals. of carrier plus glyphosate label adjuvant recommendation.	Ammonium sulfate at 8.5 to 17 lbs. per 100 gals. Of carrier plus NIS at 0.25% v/v.	See charts for grasses controlled. Use a minimum of 10 gals. Of spray solution per acre.
	See glyphosate label for rates to control broadleaf weeds and height limitations for cotton.				

1. If grass regrowth occurs or an additional flush of new grass emerges, make a second application of **HM-0714** at the recommended rate with the appropriate amount of crop oil.
2. Always use a CPDA Certified Adjuvant when possible.

DRY AND SUCCULENT SHELLED BEANS

Table 6. HM-0714 TANK MIXES WITH BROADLEAF HERBICIDES FOR DRY AND SUCCULENT SHELLED BEANS (Refer to the recommendation tables above for specific grasses and growth stages.)

PRODUCT ⁽¹⁾	APPLICATION RATES/ACRE ⁽²⁾		ADJUVANT	
	ANNUAL GRASSES	PERENNIAL GRASSES	GROUND	AIR
HM-0714 + BASAGRAN® ⁽³⁾	9 to 12 fl. oz. + 1 to 2 pts.	12 to 24 fl. oz. + 1 to 2 pts.	COC at 1% v/v + AMS at 2.5 lbs./A	COC at 1% v/v + AMS at 17 lbs./100 gal. v/v
HM-0714 + RAPTOR ⁽³⁾	9 to 12 fl. oz. + 4 fl. oz.	-	NIS at 0.25% v/v + AMS at 2.5 lbs./A	NIS at 0.25% v/v + AMS at 17 lbs./100 gal.

1. Broadleaf weed control may be reduced when grass populations are tall enough or dense enough to intercept the spray pattern

and prevent them from receiving complete coverage. Tank mixing is not recommended in these situations.

3. If grass regrowth occurs or an additional flush of new grass emerges, make a second application of **HM-0714** alone (without a tank mix herbicide), according to the appropriate size and rate recommendations.
4. **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.**
5. Always use a CPDA Certified Adjuvant when possible.

FLAX

Table 7. REDUCED RATE HM-0714 TANK MIXES WITH BROADLEAF HERBICIDES FOR FLAX

(Refer to the recommendation tables above for specific grasses and growth stages.)

PRODUCT	APPLICATION RATES/ACRE	ADJUVANT	
	ANNUAL GRASSES ⁽¹⁾	GROUND	AIR
HM-0714 + BRONATE ADVANCED™ (2,3)	6 to 9 fl. oz. + 11.4 fl. oz.	AMS at 2.4 to 4.0 lbs/A + NIS at 0.125% v/v	AMS at 2.5 to 4.0 lbs./A
HM-0714 + BRONATE® (2,3)	6 to 9 fl. oz. + 0.9 pt.	AMS at 2.4 to 4.0 lbs./A + NIS at 0.125% v/v	AMS at 2.5 to 4.0 lbs./A
HM-0714 + BUCTRL® (2,3)	6 to 9 fl. oz. + 0.125 lb. al/A	AMS at 2.4 to 4.0 lbs./A + NIS at 0.125% v/v	AMS at 2.5 to 4.0 lbs./A
HM-0714 + MCPA23	8 to 10 fl. oz. + 0.25 to 0.5 pt.	AMS at 2.4 to 4.0 lbs./A + NIS at 0.125% v/v	AMS at 2.5 to 4.0 lbs/A
HM-0714 + CURTAIL® M (2,3)	6 to 9 fl. oz. + 1.33 to 1.75 pt./A	AMS at 2.4 to 4.0 lbs./A + NIS at 0.125% v/v	AMS at 2.5 to 4.0 lbs./A

1. Annual grasses and sizes controlled with these tank mixtures are those that are identified in the table.
2. Do not apply **HM-0714** tank mix during or after the bud stage or to ornamental flax or crop injury may occur.
3. Do not apply tank mixes if temperatures are expected to exceed 85F at (or 3 days following) application or crop injury may occur.
4. Always use a CPDA Certified Adjuvant when possible.

PEANUT

Table 8. HM-0714 TANK MIXES WITH BROADLEAF HERBICIDES FOR PEANUT

(Refer to the recommendation tables above for specific grasses and growth stages.)

PRODUCT ⁽¹⁾	APPLICATION RATES/ACRE ⁽²⁾	ADJUVANT RECOMMENDATIONS	
	ANNUAL GRASSES	GROUND	AIR
HM-0714 + BASAGRAN	9 to 16 fl. oz. + 1 to 2 pts.	COC at 1% v/v + AMS at 2.5 lbs./A	COC at 1% v/v + AMS at 17 lbs./100 gals.
HM-0714 + ULTRA BLAZER®	9 to 16 fl. oz. + 0.5 to 1.5 pts.	COC at 1% v/v + AMS at 2.5 lbs/A	COC at 1% v/v + AMS at 17 lbs./100 gals.
HM-0714 + STORM®	9 to 16 fl. oz. + 1.5 pts.	COC at 1% v/v + AMS at 2.5 lbs./A	COC at 1% v/v + AMS at 17 lbs./100 gals.

1. Broadleaf weed control may be reduced when grass populations are tall or dense enough to intercept the spray pattern and prevent them from receiving complete coverage. Tank mixing is not recommended in these situations.
2. If grass regrowth occurs or an additional flush of new grass emerges, make a second application of **HM-0714** alone (without a tank mix herbicide), according to the appropriate size and rate recommendations.
3. Always use a CPDA Certified Adjuvant when possible.

RECOMMENDATIONS FOR GRASS SUPPRESSION FOR HARVEST EFFICIENCY IN PEANUT WITH HM-0714

GRASS SPECIES	WEED STAGE	APPLICATION RATES	
		MINIMUM RATE fl. oz./A	MAXIMUM RATE fl. oz./A
Annual and perennial grasses that exceed height claimed for control on height charts "RECOMMENDATIONS FOR ANNUAL GRASSES" and "RECOMMENDATIONS FOR PERENNIAL GREASSES"	Up to and including grasses in the seed head stage	32	64
<ul style="list-style-type: none"> Do not apply as part of a tank mix when applying HM-0714 for grass suppression. Add a crop oil concentrate at 1 gal. /A by ground to the finished spray volume. Always use a CPDA Certified Adjuvant when possible. 			

SOYBEAN

Table 9. HM-0714 TANK MIX WITH BROADLEAF HERBICIDES FOR THE CONTROL OF VOLUNTEER CORN (INCLUDING ROUNDUP READY) IN SOYBEAN

(Refer to the recommendation tables above for specific volunteer corn sizes and use rates.)

PRODUCT	WEED SIZE AND APPLICATION RATES		SPRAY ADDITIVES			
	VOLUNTEER CORN HEIGHT (inches)	HM-0714 RATES/ACRE	GROUND APPLICATION		AIR APPLICATION	
			NIS	AMS	NIS	AMS
HM-0714 + glyphosate ^(1,2,3) 1 to 3 lbs. al/A (ROUNDUP READY soybeans only)	Up to 12	6 fl. oz.	Adjuvant Loaded Glyphosate: None Required Adjuvant Unloaded Glyphosate: NIS at 0.25% v/v	8.5 to 17 lbs/100 gals of spray solution	Adjuvant Loaded Glyphosate: None Required Adjuvant Unloaded Glyphosate: NIS at 0.25% v/v	8.5 to 17 lbs/100 gals. of spray solution
	Up to 24	9 fl. oz.				
	Up to 36	12 fl. oz.				
HM-0714 FIRSTRATE® 0.3 oz./A	Up to 12	6 fl. oz.	NIS at 0.25% v/v	AMS at 2.5 lbs./A	NIS at 0.25% v/v	17 lbs./100 gals. of spray solution
	Up to 24	9 fl. oz.				
	Up to 36	12 fl. oz.				
HM-0714 + PURSUIT 70 DG 1.44 oz./A	Up to 12	6 fl. oz.	NIS at 0.25% v/v	AMS at 2.5 lbs./A	NIS at V 0.25% v/v	17 lbs./100 gals. of spray solution
	Up to 24	9 fl. oz.				
	Up to 36	12 fl. oz.				
HM-0714 + RAPTOR 4 to 5 fl. oz./A	Up to 12	6 fl. oz.	NIS at 0.25% v/v	AMS at 2.5 lbs/A	NIS at 0.25% v/v	17 lbs./100 gals. of spray solutions
	Up to 24	9 fl. oz.				
	Up to 36	12 fl. oz.				

1. This tank mix may be applied postemergence to ROUNDUP Ready soybeans up through the full flowering stage. Do not apply less than 60 days before harvest.
2. Avoid contact with foliage, green stems or fruit crops or any desirable plants and trees, other than soybeans with the ROUNDUP Ready gene as severe plant injury or death will result.
3. Do not allow the **HM-0714** plus glyphosate to mist, drip, drift or splash onto desirable vegetation as minute quantities of the tank mix can cause severe damage or destruction to the crops, plants or other areas on which treatment was not intended. The likelihood of injury occurring from drift of this product is greatest when winds are gusty or in excess of 5 miles per hour. Even under lesser wind velocities, avoid conditions that allow spray drift to occur such as combinations of spray pressure and nozzle type that will result in fine particles (mist) that are likely to drift.
4. Always use a CPDA Certified Adjuvant when possible.

Table 10. HM-0714 TANK MIXES WITH BROADLEAF HERBICIDES FOR SOYBEAN
(Refer to the recommendation tables above for specific grasses and growth stages.)

PRODUCT	APPLICATION	SPRAY ADDITIVE RECOMMENDATIONS
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250632

	RATES/ACRE ⁽⁴⁾		GROUND APPLICATION		AIR APPLICATION	
	ANNUAL GRASSES ⁽³⁾	COC/NIS ⁽⁴⁾	AMS	COC/NIS ⁽⁴⁾		
				AMS		
HM-0714 + COBRA	9 to 20 fl. oz. + 6 to 12 fl. oz.	NIS at 0.25% v/v plus COC at 0.25% v/v or COC at 1 to 2 pts./A	AMS at 2.5 lbs/A	NIS at 0.25% v/v plus COC at 0.25% v/v or COC 1% v/v (but not less than 1 pt/A)	17 lbs./100 gals. of spray solution	
HM-0714 + FIRSTRATE ⁽⁵⁾	9 to 20 fl. oz. + 0.3 oz.	NIS at 0.25% v/v or COC at 1 pt./A	AMS at 2.5 lbs./A	NIS at 0.25% v/v or COC at 1% v/v (but not less than 1 pt./A)	17 lbs/100 gals. of spray solution	
HM-0714 + FLEXSTAR® HL ⁽⁵⁾	9 to 20 fl. oz. + Refer to the FLEXSTAR HL label for specific application rates.	NIS at 0.25% v/v plus COC at 0.25% v/v or COC at 1 to 2 pts./A	AMS at 2.5 lbs/A	NIS at 0.25% plus COC at 0.25% v/v or COC at 1% v/v (but not less than 1 pt/A)	17 lbs/100 gals. of spray solution	
HM-0714 + FRONTROW™ ⁽⁵⁾	9 to 20 fl. oz. + Refer to FRONTROW label for use rates	NIS at 0.25% v/v or COC at 1 pt./A	AMS at 2.5 lbs./A	NIS at 0.25% v/v or COC at 1% v/v (but not less than 1 pt./A)	17 lbs./100 gals. of spray solution	
HM-0714 + Harmony® GT XP ⁽⁵⁾	9 to 12 fl. oz. + 0.042 to 0.083 oz.	NIS at 0.125 to 0.25% v/v	AMS at 2.5 lbs/A	-	-	
HM-0714 + PHOENIX™	9 to 20 fl. oz. + 6 to 12.5 fl. oz.	NIS at 0.25% v/v plus COC at 0.125 to 0.25% v/v or COC at 1 pt./A	AMS at 2.5 lbs/A	NIS at 0.25% plus COC at 0.25% v/v or COC at 1% v/v (but not less than 1 pt./A)	17 lbs./100 gals. of spray solution	
HM-0714 + PURSUIT 70 DG ⁽⁵⁾	12 to 20 fl.. oz + 1.44 oz.	NIS at 0.25% v/v or COC at 1 pt./A	AMS at 2.5 lbs/A	MS at 0.25% v/v or COC at 1% v/v (but not less than 1 pt./A)	17 lbs./100 gals. of spray solution	
HM-0714 + RAPTOR(1 AS) ⁽⁵⁾	12 to 20 fl. oz + 4 to 5 fl. oz.	NIS at 0.25% v/v or COC at 1 pt./A	AMS at 2.5 lbs./A	NIS at 0.25% v/v or COC at 1% v/v (but not less than 1 pt./A)	17 lbs./100 gals. of spray solution	
HM-0714 + RESOURCE®	9 to 20 fl. oz. + 4 to 12 fl. oz.	NIS at 0.25% v/v plus CCC at 0.25% v/v or COC at 1 to 2 pts./A	AMS at 2.5 lbs/A	-	-	
HM-0714 + COBRA + FIRSTRATE ⁽⁵⁾	9 to 20 fl. oz. + 6 to 12.5 fl. oz. 0.3 oz.	NIS at 0.25% v/v plus COC at 0.25% v/v or COC at 1 to 2 pts./A	AMS at 2.5 lbs/A	NIS at 0.25% v/v plus COC at 0.25% v/v or COC at 1% v/v (but not less than	17 lbs./100 gals. of spray solution	

				I pt./A)	
HM-0714 + Cobra + Harmony GT XP ⁽⁵⁾	9 to 12 fl. oz. + 6 to 8 fl. oz. + 0.042. oz.	NIS at 0.125 to 0.25% v/v plus COC at 0.125% v/v	AMS at 2.5 lbs/A	-	-
HM-0714 + COBRA + PURSUIT 70 DG ⁽⁵⁾	12 to 20 fl. oz. + 6 to 12.5 fl. oz. + 1.44 oz.	NIS at 0.25% v/v plus COC at 0.25% v/v or COC at 1 to 2 pts./A	AMS at 2.5 lbs/A	NIS at 0.25% v/v plus COC at 0.25% v/v or COC at 1% v/v (but not less than 1 pt./A)	17 lbs./100 gals. of spray solution
HM-0714 + COBRA + RAPTOR (1 AS) ⁽⁵⁾	12 to 20 fl. oz. + 6 to 12.5 fl. oz. + 4 to 5 fl. oz.	NIS at 0.25% v/v plus COC at 0.25% v/v or COC at 1 to 2 pts./A	AMS at 2.5 lbs./A	NIS at 0.25% v/v plus COC at 0.25% v/v or COC at 1% v/v (but not less than 1 pt./A)	17 lbs./100 gals. of spray solution
HM-0714 + COBRA + RESOURCE	9 to 20 fl. oz. + 6 to 12.5 fl. oz. + 4 to 6 fl. oz.	NIS at 0.25% v/v plus COC at 0.25% v/v or COC at 1 to 2 pts./A	AMS at 2.5 lbs/A	-	-
HM-0714 + FIRSTRATE + FLEXSTAR HL ⁽⁵⁾	9 to 20 fl. oz. + 0.3 oz. + Refer to the FLEXSTAR HL label for specific application rates	NIS at 0.25% v/v plus COC at 0.25% v/v or Equivalent blended product or COC at 1 to 2 pts./A	AMS at 2.5 lbs/A	NIS at 0.25% v/v plus COC at 0.25% v/v or COC at 1% v/v (but not less than 1 pt./A)	17 lbs./100 gals. of spray solution
HM-0714 + PHOENIX + FIRSTRATE ⁽⁵⁾	12 to 20 fl. oz. + 6 to 12.5 fl. oz. + 0.3 oz.	NIS at 0.25% v/v plus COC at 0.125 to 0.25% v/v or COC at 1 pt./A	AMS at 2.5 lbs/A	NIS at 0.25% v/v plus COC at 0.25% v/v or COC at 1% v/v (but not less than 1 pt./A)	17 lbs/100 gals. of spray solution
HM-0714 + PHOENIX + PURSUIT 70 DG ⁽⁵⁾	16 to 20 fl. oz. + 6 to 12.5 fl. oz. + 1.44 oz.	NIS at 0.25% v/v plus COC at 0.125 to 0.25% v/v or COC at 1 pt./A	AMS at 2.5 lbs/A	NIS at 0.25% v/v plus COC at 0.25% v/v or COC at 1% v/v (but not less than 1 pt./A)	17 lbs./100 gals. of spray solution
HM-0714 + PHOENIX + RAPTOR(1 AS) ⁽⁵⁾	12 to 20 fl. oz. + 6 to 12.5 fl. oz. + 4 to 5 fl. oz.	NIS at 0.25% v/v plus COC at 0.125 to 0.25% v/v or COC at 1 pt./A	AMS at 2.5 lbs./A	NIS at 0.25% v/v plus COC at 0.25% v/v or COC at % v/v (but not less than 1 pt./A)	17 lbs./100 gals. of spray solution
HM-0714 + PHOENIX +	9 to 20 fl. oz. + 6 to 12.5 fl. oz. +	NIS at 0.25% v/v plus COC at 0.125 to 0.25% v/v	AMS at 2.5 lbs./A	-	-

RESOURCE	4 to 6 fl. oz.	or COC at 1 pt./A			
HM-0714 + RESOURCE + PURSUIT 70 DG ⁽⁵⁾	12 to 20 fl. oz. + 4 fl. oz. + 1.44 oz.	NIS at 0.25% v/v plus COC at 0.25% v/v or COC at 1 to 2 pts./A	AMS at 2.5 lbs./A	-	
HM-0714 + SYNCHRONY© STS5> or SYNCHRONY XP (mp) ⁽⁵⁾	12 to 20 fl. oz. + 0.25 oz. or 0.375 oz.	NIS at 0.25% v/v or COC at 1 pt./A	AMS at 2.5 lbs./A	NIS at 0.25% v/v or COC at 1% v/v (but not less than 1 pt./A)	17 lbs./100 gals. of spray solution
HM-0714 + SYNCHRONY STS ⁽⁵⁾ or SYNCHRONY XP (mp) ⁽⁵⁾ (STS Soybeans Only)	12 to 20 fl. oz. + 0.5 oz. or 0.75 oz.	NIS at 0.25% v/v or COC at 1 pt./A	AMS at 2.5 lbs./A	NIS at 0.25% v/v or COC at 1% v/v (but not less than 1 pt./A)	17 lbs./100 gals. of spray solution
HM-0714 + COBRA + RESOURCE + FIRSTRATE ⁽⁵⁾	9 to 12 fl. oz. + 6 to 12.5 fl. oz. + 4 to 6 fl. oz. + 0.3 oz.	NIS at 0.25% v/v plus COC at 0.25% v/v or COC at 1 to 2 pts./A	AMS at 2.5 lbs./A	-	-
HM-0714 + COBRA + SYNCHRONY STS ⁽⁵⁾ or SYNCHRONY XP (mp) ⁽⁵⁾	12 to 20 fl. oz. + 6 to 12 fl. oz. + 0.25 oz. or 0.375 oz.	NIS at 0.25% v/v plus COC at 0.25% v/v or COC at 1 to 2 pts./A	AMS at 2.5 lbs./A	NIS at 0.25% v/v plus COC at 0.25% v/v or COC at 1% v/v (but not less than 1 pt./A)	17 lbs./100 gals. of spray solution
HM-0714 + COBRA + SYNCHRONY STS ⁽⁵⁾ or SYNCHRONY XP (mp) ⁽⁵⁾ (STS Soybeans Only)	12 to 20 fl. oz. + 6 to 12 fl. oz. + 0.5 oz. or 0.75 oz.	NIS at 0.25% v/v plus COC at 0.25% v/v or COC at 1 to 2 pts./A	AMS at 2.5 lbs./A	NIS at 0.25% v/v plus COC at 0.25% v/v or COC at 1% v/v (but not less than 1 pt./A)	17 lbs./100 gals. of spray solution
HM-0714 + PHOENIX + RESOURCE + FIRSTRATE ⁽⁵⁾	9 to 20 fl. oz. + 6 to 12.5 fl. oz. + 4 to 6 fl. oz. + 0.3 oz.	NIS at 0.25% v/v plus COC at 0.125 to 0.25% v/v or COC at 1 pt./A	AMS at 2.5 lbs./A	-	-
HM-0714 + PHOENIX + SYNCHRONY STS ⁽⁵⁾ or	12 to 20 fl. oz. + 6 to 12 fl. oz. + 0.25 oz. or 0.375	NIS at 0.25% v/v plus COC at 0.125 to 0.25% v/v or COC at 1 pt./A	AMS at 2.5 lbs./A	NIS at 0.25% v/v plus COC at 0.25% v/v Or COC at 1% v/v (but not less than 1 pt./A)	17 lbs./100 gals. of spray solution

SYNCHRONY XP (mp)(5)					
HM-0714 + PHOENIX + SYNCHRONY STS⁽⁵⁾ or SYNCHRONY XP (mp)⁽⁵⁾ (STS Soybeans Only)	12 to 20 fl. oz. + 6 to 12 fl. oz. + 0.5 oz. or 0.75 oz.	NIS at 0.25% v/v plus COC at 0.125 to 0.25% v/v or COC at 1 pt./A	AMS at 2.5 lbs/A	NIS at 0.25% v/v plus COC at 0.25% v/v or COC at 1% v/v (but not less than 1 pt./A)	17 lbs/100 gals. of spray solution

1. Broadleaf weed control may be reduced when grass populations are tall or dense enough to intercept the spray pattern and prevent them from receiving complete coverage. Tank mixing is not recommended in these situations.
2. If grass regrowth occurs or an additional flush of new grass emerges, make a second application of **HM-0714** alone (without a tank mix herbicide), according to the appropriate size and rate recommendations.
3. Annual grasses and sizes controlled with these tank mixtures are those that are identified in the **RECOMMENDATIONS FOR ANNUAL GRASSES** table.
4. Contact local Helena Chemical Company representative for proper COC/NIS adjuvant selection.
5. Refer to **FIRSTRATE**, **FLEXSTAR HL**, **FRONTROW**, **HARMONY GT XP**, **PURSUIT DG**, **RAPTOR**, **SYNCHRONY STS** and **SYNCHRONY XP (mp)** for geographic and rotational restrictions.
6. Always use a CPDA Certified Adjuvant when possible.
7. Always use a CPDA Certified Adjuvant when possible.

Table 14. TANK MIX APPLICATION OF HM-0714 AND INSECTICIDES FOR CONTROL OF GRASS WEEDS AND INSECTS IN ALFALFA, COTTON, MINT, PEANUT (INCLUDING PERENNIAL), SOYBEAN AND SUNFLOWER

PRODUCT ⁽¹⁾	APPLICATION RATES/ACRE ⁽²⁾		ADJUVANT RECOMMENDATION	CROPS					
	ANNUAL GRASSES	PERENNIAL GRASSES		Alfalfa ⁽³⁾	Cotton	Mint ^(3,4)	Peanut	Soybean	Sunflower
HM-0714 + Asana® XL	9 to 12 fl. oz. + Refer to Asana XL label	12 to 24 fl. oz. + Refer to Asana XL label	NIS at 0.25% v/v + AMS at 2.5 lbs./A					X	X
HM-0714 + Baythroid®	9 to 12 fl. oz. + Refer to Baythroid label	12 to 24 fl. oz. + Refer to Baythroid label	NIS at 0.25% v/v + AMS at 2.5 lbs./A	X				X	
HM-0714 + Danitol® 2.4 EC	9 to 12 fl. oz. + 10 2/3 to 16 fl. oz.	12 to 24 fl. oz. + 10 2/3 to 16 fl. oz.	NIS at 0.25% v/v + AMS at 2.5 lbs./A		X		X		
HM-0714 + Dimethoate	9 to 12 fl. oz. + Refer to Dimethoate label	12 to 24 fl. oz. + Refer to Dimethoate label	NIS at 0.25% v/v + AMS at 2.5 lbs./A	X				X	
HM-0714 + Lorsban®	9 to 12 fl. oz. + Refer to Lorsban label	12 to 24 fl. oz. + Refer to Lorsban label	NIS at 0.25% v/v + AMS at 2.5 lbs./A	X				X	
HM-0714 + Orthene® 75 S or Orthene 97	9 to 12 fl. oz. + 0.33 to 1.33 lbs. or 0.25 to 1 lb.	12 to 24 fl. oz. + 0.33 to 1.33 lbs. or 0.25 to 1 lb.	NIS at 0.25% v/v + AMS at 2.5 lbs./A		X	X	X	X	
HM-0714 + Orthene 90 S	9 to 12 fl. oz. + 0.25 to 1 lb.	12 to 24 fl. oz. + 0.25 to 1 lb.	NIS at 0.25% v/v + AMS at 2.5 lbs./A		X	X	X	X	
HM-0714 +	9 to 12 fl. oz. +	12 to 24 fl. oz. +	NIS at 0.25% v/v +	X		X			

Pounce®	Refer to Pounce label	Refer to Pounce label	AMS at 2.5 lbs/A						
HM-0714. + Warrior®	9 to 12 fl. oz. + Refer to Warrior label	12 to 24 fl. oz. + Refer to Warrior label	NIS at 0.25% v/v + AMS at 2.5 lbs./A			X	X		

- 1) Refer to **HM-0714** and insecticide label for rates and weeds and insects controlled.
- 2) If grass regrowth occurs, or an additional flush of new grass emerges, make a second application of **HM-0714** alone (without a tank mix insecticide) according to the appropriate size and rate recommendations.
- 3) Certain insecticides may cause temporary phytotoxic symptoms on alfalfa and mint foliage. Refer to the insecticide label for further information. It is suggested that prior to using any of these insecticide/herbicide tank mixtures, that a small area of the field be treated first and observations for crop injury be made prior to treating the whole field.
- 4) The **HM-0714** rate should be 9 to 12 fl. oz./A for annual grass control in baby mint, minimum of 12 fl. oz./A for annual grass control in established mint and 16 to 32 fl. oz./A for perennial grass control.
- 5) Always use a CPDA Certified Adjuvant when possible.

FALLOW LAND

DIRECTIONS FOR USE

HM-0714 may be used to control annual and perennial grasses in land that has been left fallow the previous year and other non-producing agricultural areas. Apply **HM-0714** at 12 to 16 fl. oz./A for annual grasses and 16 to 32 fl. oz./A for perennial grasses. When both grass and broadleaf weeds are the target pest, **HM-0714** may be tank mixed with 2,4-D ester or BANVEL® SGF for broad spectrum control. When both annual and perennial grasses occur in the same field, use a minimum of 16 fl oz./A **HM-0714** rate.

GENERAL INFORMATION:

- Use a minimum spray volume of 5 gals./A for aerial applications and 15 gals./A for ground applications. Apply only to actively growing grasses when the first grass reaches the recommended weed height as specified by the Recommendations for Annual and Perennial Grasses section of this label.
- Annual grasses that emerge after the **HM-0714** application will not be controlled, and a second application may be necessary.
- The control of perennial grasses may require more than 1 application in non-tilled areas.
- Do not apply to grasses that have tillered, formed seedheads or exceeded recommended growth stage.
- Do not use flood jet nozzles.
- Do not apply to drought stressed grasses.
- Do not mow area for 2 weeks prior to or after the **HM-0714** application.

TABLE 15. HM-0714 IN TANK MIXES TO CONTROL ANNUAL AND PERENNIAL GRASSES IN FALLOW LAND

PRODUCT	APPLICATION RATES/ACRE ⁽¹⁾		ADJUVANT RECOMMENDATION	
	ANNUAL GRASSES	PERENNIAL GRASSES	GROUND	AIR
HM-0714 + 2,4-D ester or BANVEL SGF	12 to 16 fl. oz. + 0.5 lb./A or See BANVEL SGF label for rates.	16 to 32 fl. oz. + 0.5 lb./A or See BANVEL SGF label for rates	NIS at 0.25% v/v or COC at 1% + AMS at 2.5 lbs./A	NIS at 0.25% v/v or COC at 1% + AMS at 17 lbs./100 gals.

- 1) Refer to **HM-0714** label for weed height and species control. Review BANVEL SGF and 2,4-D labels for crop restrictions, use rates and weeds controlled.
- 2) Always use a CPDA Certified Adjuvant when possible.

RECOMMENDATIONS FOR GRASS SUPPRESSION IN NON-CROP AREAS WITH HM-0714			
GRASS SPECIES	WEED STAGE	APPLICATION RATES	
		MINIMUM RATE fl. oz./A	MAXIMUM RATE fl. oz./A
Annual and perennial grasses that exceed height claimed for control on height chart above	Up to and including grasses in the seed head stage.	24	32
<ul style="list-style-type: none"> Do not apply as part of a tank mix when applying HM-0714 for grass suppression. Add a crop oil concentrate at 1 qt./A by ground to the finished spray volume. Always use a CPDA Certified Adjuvant when possible. 			

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TABLE 16. HM-0714 FOR THE CONTROL AND/OR SUPPRESSION OF TALL FESCUE IN NATIVE PRAIRIE WARM-SEASON GRASS RESTORATION PROJECTS

PRODUCT	PRODUCT RATE	GRASS WEEDS CONTROLLED/SUPPRESSED		WEED STAGE
		Common Name	Scientific Name	
HM-0714	12 to 16 fl. oz./A	Tall Fescue	<i>Festuca arundinacea</i>	4 to 6 inches tall (40 to 60% green-up)

Adjuvant: HM-0714 must be applied with non-ionic surfactant at 0.25% v/v, plus a spray grade ammonium sulfate at 2.5 to 4 lbs./A.

Recommended Mixing Order: Thoroughly mix spray grade ammonium sulfate in water, add HM-0714, then add non-ionic surfactant.

Always use a CPDA Certified Adjuvant when possible.

SPECIAL APPLICATION INSTRUCTIONS/PRECAUTIONS

Burn or mow fields a minimum of 3 weeks prior to application to remove excess crop residue. Apply in the spring, at 40 to 60% tall fescue green-up, prior to emergence of warm-season grasses. Do not mow area for 2 weeks after the HM-0714 application.

Apply in a minimum of 15 to 20 gals of water per acre at a spray pressure of 40 to 60 PSI at the nozzle. Apply using flat fan or hollow cone nozzles. Do not use flood jet nozzles.

Apply only to fields that have warm-season grasses established for 2 years. Applications of HM-0714 to emerged warm-season grasses may cause injury. Do not apply to warm-season grasses grown for seed.

Do not graze treated fields or feed treated forage and or hay to livestock.

NOTE: HM-0714 applications are most effective if applied when average nighttime temperatures are consistently greater than or equal to 47 degrees Fahrenheit.

TABLE 17. HM-0714 FOR THE SUPPRESSION OF TALL FESCUE SEED-HEADS IN NON- PRODUCING AGRICULTURAL AREAS

PRODUCT	PRODUCT RATES	SUPPRESSION	APPLICATION TIMING
HM-0714	3 to 4 fl. oz./A	Tall Fescue Seed-Heads (<i>Festuca arundinacea</i>)	(50 to 90% Tall Fescue green-up in the spring) or 3 weeks prior to dormancy in the fall.

ADJUVANT: HM-0714 must be applied with crop oil concentrate at 1 qt. /A, plus a spray grade ammonium sulfate at 2.5 to 4 lb. /A.

Recommended Mixing Order: Thoroughly mix spray grade ammonium sulfate in water, add HM-0714, then add crop oil concentrate.

Note: Use crop oil concentrate at 2 pts. /A with fall applications.

SPECIAL APPLICATION INSTRUCTIONS/PRECAUTIONS

- Apply at 50 to 90% tall fescue green-up.
- Use the higher HM-0714 rate if less tall fescue green matter is present.
- Do not mow area for 2 weeks after the HM-0714 application.
- Apply in a minimum of 15 to 20 gals of water per acre at a spray pressure of 40 to 60 psi at the nozzle. Apply using flat fan or hollow cone nozzles. Do not use flood nozzles.
- 2,4-D ester, TORDON® 22K, GRAZON® P+D or CROSSBOW® maybe added to this tank mix for broadleaf control (see 2,4-D ester label for weeds controlled)
- Do not graze treated fields or feed treated forage and or hay to livestock.

IMPORTANT

Plant tolerance to HM-0714 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 the herbicide can be used safely on a few plants prior to widespread application. Neither the seller nor the manufacturer of HM-0714 have investigated the safety factor to plants not listed on the label.

NON-BEARING FOOD CROPS

HM-0714 SHOULD NOT BE APPLIED TO NON-BEARING FRUIT OR NUT CROPS WHICH ARE GROWN FOR ROOT STOCK.

Crop injury to non-bearing fruit and nut crops can occur if HM-0714 is improperly applied. HM-0714 should not be applied directly over the top of these plant types. Instead spray should be directed at the base of the plant where grassy weeds are growing near the ground.

Non-bearing fruit and nut crops are plants which will not bear fruit or nuts for at least one year following **HM-0714** application.

COMMON NAME	SCIENTIFIC NAME
Apples	<i>Milus spp</i>
Berries	<i>Vaccinium spp.</i> <i>Rubus spp.</i>
Cherry, Sweet	<i>Prunus avium</i>
Citrus Fruits	<i>Citrus spp</i>
Grapes	<i>Vitis spp</i>
Olives	<i>Olea spp</i>
Peach	<i>Prunus persica</i>
Pears	<i>Pyrus communis</i>
Prunes	<i>Prunus spp</i>
Stone Fruits	<i>Prunus spp</i>
Strawberries	<i>Fragaria spp.</i>
Tree Nuts	
Almond	<i>Prunus triloba</i>
Filbert	<i>Coryliss maxima</i>
Pecan	<i>Carya illinoensis</i>
Pistachio	<i>Pistacia vera</i>
Walnut	<i>Juglans spp.</i>

CONIFER TREES

HM-0714 can be used to control labeled grasses in Christmas tree farms, conifer nurseries and conifer plantations (but not in forests).

COMMON NAME	SCIENTIFIC NAME
Arborvitae, American	<i>Thuja occidentalis</i>
Cedars	<i>Cedrus spp.</i>
Cypress	<i>Taxodium spp.</i>
Fir, Douglas	<i>Pseudotsuga menziesll</i>
Firs	<i>Abies spp</i>
Hemlock, Canadian/Eastern	<i>Tsuga canadensis</i>
Hemlock, Western	<i>Tsuga heterophylla</i>
Pines	<i>Pinus spp</i>
Spruces	<i>Picea spp.</i>
Yew	<i>Taxus spp.</i>

NON-CROP OR NON-PLANTED AREAS

The following areas are considered non-crop or non-planted areas: Rights-of-way including railroads, highways, roads, dividers, medians, pipelines, public utility lines, pumping stations, transformer stations and substations. Around airports, electric utilities, commercial buildings, manufacturing plants, storage yards, rail yards, fence lines, parkways, and post-harvest croplands. Also beneath greenhouse benches and around golf courses.

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.

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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
2. 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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