

66330-395

04/15/2011

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

OFFICE OF
CHEMICAL SAFETY AND
POLLUTION PREVENTION

Jonathan A. Janis
Arysta LifeScience North America, LLC
15401 Weston Parkway, Suite 150
Cary, NC 27513

APR 15 2011

Subject: Notification per PR Notice 98-10 (NY counties advisory statement)
ARY 0411-007 Herbicide
EPA Reg. No. 66330-395
Application Dated March 11, 2011

Dear Mr. Janis:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the subject product. 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 date-stamped "Notification" and will be placed in our records.

If you have any questions, please contact Mindy Ondish at (703)605-0723 or at ondish.mindy@epa.gov.

Sincerely,

Kathryn V. Montague
Product Manager 23
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
Environmental Protection Agency
Washington, DC 20460

<input type="checkbox"/>	Registration
<input type="checkbox"/>	Amendment
<input checked="" type="checkbox"/>	Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number Arysta LifeScience North America, LLC. / 66330-395	2. EPA Product Manager Kathryn Montague	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Arysta LifeScience North America, LLC ARY 0411-007 Herbicide	PM# 23	
5. Name and Address of Applicant (Include ZIP Code) Arysta LifeScience North America, LLC 15401 Weston Parkway, Suite 150 Cary, NC 27513 <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. <u>NOTIFICATION</u> Product Name <u>APR 15 2011</u>	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)
Notification of Advisory Statement per PR Notice 98-10 and PR Notice 95-2.

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Metal Plastic Glass Paper Other (Specify) _____		
* Certification must be submitted		If "Yes" Unit Packaging wgt. No. per container	If "Yes" Package wgt No. per container		
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled			<input type="checkbox"/> Other _____		

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Jonathan A. Janis	Title Regulatory Manager	Telephone No. (Include Area Code) 919-678-4917
2. Signature <i>Jonathan A. Janis</i>		6. Date Application Received (Stamped)
3. Title Regulatory Manager		
4. Typed Name Jonathan A. Janis		
5. Date March 11, 2011		



Arysta LifeScience

✓ IN OPEN 3/39

REGISTRATION ACTION:
NOTIFICATION- ADDING ADVISORY STATEMENT

FEE CATEGORY:
 REGISTRATION FEE: NO FEE ASSOCIATED WITH THIS ACTION

March 11, 2011

Courier delivery via FEDEX

Mrs. Kathryn Montague, Product Manager 23
Document Processing Desk (NOTIF)
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency
One Potomac Yard, 2777 South Crystal Drive
Arlington, VA 22202-4501

Dear Mrs. Montague:

Subject: ARY 0411-007 Herbicide, EPA Reg. No. 66330-395.
Notification of Advisory Statement per PR Notice 98-10 and PR Notice 95-2.

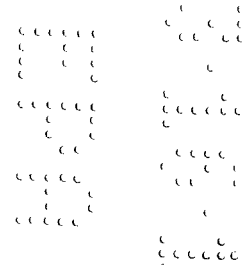
Arysta LifeScience North America, LLC is notifying the Agency of the addition of an advisory statement for ARY 0411-007 Herbicide (EPA Reg. No. 66330-395). The statement "Application in Nassau and Suffolk Counties of New York State is restricted to no more than 32 fl oz of ARY 0411-007 (0.25 lb a.i.) per acre per season" has been added to be in accord with the New York State requirements for end-use products containing Clethodim technical.

This notification is consistent with the provisions of PR Notice 98-10, PR Notice 95-2 and the EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling. I understand that it is a violation of 18 U.S. C. Sec. 1001 to willfully make any false statements 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 product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Should you have any questions or comments pertaining to the Arysta ARY 0411-007 / SHADOW ULTRA Herbicide registration, please feel free to contact me via phone at 919-678-4917 or via email at jonathan.janis@arystalifescience.com.

Regards,

Jonathan A. Janis
Regulatory Manager



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ARY 0411-007 HERBICIDE

NOTIFICATION

APR 15 2011

GROUP 1 HERBICIDE

ALTERNATE BRAND NAME: SHADOW ULTRA HERBICIDE

ACTIVE INGREDIENT:

*Clethodim 12.9

OTHER INGREDIENTS:** 87.1%

TOTAL: 100.0%

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

**Contains Petroleum Distillates

Contains: 1.0 lb Clethodim per gallon

KEEP OUT OF REACH OF CHILDREN

CAUTION - PRECAUCION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

FIRST AID	
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 further treatment advice.
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.	
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
FOR 24- HOUR EMERGENCY MEDICAL ASSISTANCE CALL: 1-866-303-6952	
FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident call CHEMTREC 1-800-424-9300	

EPA REG. NO.: 66330-395

EPA EST. NO.: xxx-xx-xx

AD 04192010

NET CONTENTS:

**MANUFACTURED FOR:
ARYSTA LIFESCIENCE NORTH AMERICA, LLC
15401 WESTON PARKWAY, SUITE 150
CARY, NC 27513**

See back panel for additional precautionary statements.

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

Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.

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 \geq 14 mils
- Shoes plus socks
- 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 no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users Should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- 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, 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

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 produce 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
- Chemical-resistant gloves, such as Barrier Laminate or Viton \geq 14 mils
- Shoes plus socks
- Protective eyewear.

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, forest, nurseries, or greenhouses.

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

CHEMIGATION

May be applied to onions and garlic by sprinkler irrigation systems. Do not apply by chemigation to any other crop, or to this crop using any other type of irrigation system.

INFORMATION

This product is for use on the following:

Alfalfa, Asparagus, Bean and Pea (dry shelled)¹, Bean and Pea (succulent)², Broccoli, Cabbage, Canola*, Carrot, Cauliflower (and other Head and Stem Brassica Vegetables)³, Celery, Clover (grown in Idaho, Oregon and Washington only), Cotton, Cranberry, Cucumber, Eggplant (and other Fruiting Vegetables)⁴, Fallow Land (and other non-producing agricultural areas), Flax*, Garden Beets, Garlic, Herbs⁵, Hops, Horseradish (and other Root Vegetables)⁶, Legume Vegetables (edible podded)⁷, Lettuce, Head and Leaf (and other leafy greens)⁸, Melons (including Cantaloupes and Watermelons)⁹, Mint, Mustard Greens (and other leafy brassica greens)¹⁰, Mustard Seed*, Non-Bearing Food Crops, Non-Crop or Planted Areas, Onions (dry bulb), Peanut (including perennial), Peppers (bell and non-bell), Potato, Radish, Rhubarb, (and other leafy Petioles)¹¹, Safflower, Sesame, Shallots (dry bulbs), Squash (including Pumpkins)⁹, Soybeans, Strawberry, Sugar Beet, Sunflower, Sweet Potato, Tomato, Turnip Greens and Yam (and other Tuberous and Corm Vegetables)¹²

* Not for use in California

ARY 0411-007 is not recommended for use on vegetable crops being grown for seed production unless specific instructions are included in this labeling.

¹ Other Dry Shelled Bean and Pea crops approved for use with this product include: Bean (*Lupinus* spp.) grain, sweet, white and sweet; Bean (*Phaseolus* spp.), field, kidney, lima (dry), navy, pinto and tepary; Bean (*Vigna* spp.), adzuki, 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 Succulent Bean and Pea, Succulent Shelled crops approved for use with this product include: Bean (*Lupinus* spp.) grain, sweet, white and sweet; Bean (*Phaseolus* spp.), field, kidney, lima (dry), navy, pinto and tepary; Bean (*Vigna* spp.), adzuki, 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

³ Other Head and Stem Brassica approved for use with this product include: Chinese broccoli, Brussels sprouts, Chinese (napa) cabbage, Chinese mustard, cavalo broccolo, and kohlrabi

⁴ Other Fruiting Vegetables (except tomato) approved for use with this product include: eggplant, groundcherry, Pepino, peppers (all) and tomatillo

⁵ Other Herb crops approved for use with this product: angelica, balm, basil, borage, burnet, chamomile, catnip, chervil, (dried), chive, Chinese chive, clary, coriander (leaf), costmary, culantro (leaf), curry (leaf), dill (dillweed), horehound, hyssop, lavender, lovage (leaf), marigold, marjoram (origanum spp), nasturtium, parsley (dried), pennyroyal, rosemary, rue, sage and savory, summer and winter.

⁶ Other Root Vegetables approved for use with this product include: burdock, edible; celeriac; chervil, turnip-rooted; chicory, ginseng; parsley, turnip-rooted; parsnip; radish, oriental; rutabaga; salsify; salsify, black; salsify, Spanish; skirret and turnip.

⁷ Other Edible Podded Legume Vegetable crops approved for use with this product: 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.

⁸ Other Leafy Greens crops approved for use with this product include: amaranth (Chinese spinach, leafy amaranth and tampala), arugula (roquette), chervil, chrysanthemum (edible-leaved and garland), corn salad, cress (garden, yellow rock and winter), dandelion, dock (sorrel), endive (escarole), lettuce (head and leaf), orach, parsley, purslane (garden and winter), radicchio (red chicory), spinach (New Zealand and Vine (Indian and malabar)).

⁹ Other Cucurbit crops approved for use with this product include: chayote (fruit), Chinese wax gourd, citron melon, edible gourd, gherkin and muskmelons (all, including honeydew melon).

¹⁰ Other Leafy Brassica Greens approved for use with this product include: broccoli raab, Chinese (bok choy) cabbage, collards, kale, mizuna, mustard greens, mustard spinach, rape greens.

¹¹ Other Leaf Petiole crops approved for use with this product include: cardoon, celuce, Chinese celery, Florence fennel, and Swiss chard.

¹² Other Tuber and Corm Vegetables approved for use with this product include: arracacha, arrowroot, Chinese artichoke, Jerusalem artichoke, edible canna, bitter and sweet cassava, chayote (root), chufa, dasheen (taro), ginger, leren, tanier, tumeric and bean yam.

SYMPTOMS OF CONTROL

This product is a selective postemergence herbicide for control of annual and perennial grasses. ARY 0411-007 does not control sedges or broadleaf weeds. The 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. Depending on grass species treated and environmental conditions, symptoms will generally be observed in 7 to 14 days after application. Avoid contact of this product with desirable grass crops, such as corn, rice, sorghum, small grains, or turf as these and other grass crops will be injured or killed. Minor leaf spotting can occur on treated plants under certain environmental conditions. New foliage is not affected.

APPLICATION INFORMATION

Timing

Make applications of ARY 0411-007 postemergence to actively growing grasses according to the rate table recommendations. Do not make application to grass plants stressed by insufficient moisture or hot or cold temperature. Applications to grass plants exceeding recommended growth stages could result in unsatisfactory control. Do not make applications when this occurs.

When irrigation is used to supplement limited rainfall in arid regions, apply ARY 0411-007 as soon as possible, after an irrigation (within 7 days). A second application of this product will generally provide more effective control of perennial grass weed than a single application in arid regions. Apply a 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 this product could reduce weed control. DO NOT APPLY if rainfall is expected within one hour as control may be reduced.

ADJUVANT OR CROP OIL CONCENTRATE RECOMMENDATIONS

ARY 0411-007 contains an oil adjuvant, and when applied alone no additional oil adjuvant is required for control. When ARY 0411-007 is applied with tankmix partners follow the adjuvant recommendation of the tankmix partner.

ARY 0411-007 has shown improved grass control when mixed with nitrogen fertilizers used as adjuvants. Follow the use rates listed below when using nitrogen fertilizer as adjuvants.

Nitrogen fertilizers can be added to ARY 0411-007 for improved control of difficult grass species.

- Liquid fertilizer (10-34-0, 28% N or 32% N) at 1-to-2 qts/A
- AMS (spray grade ammonium sulfate) (at 2.5 to 4.0 lbs/A or 8.5-17 lbs/100 gallons of spray solution).

The addition of liquid fertilizer is not recommended for the following crops:

Asparagus, Carrot, Cranberry, Cucurbits, Fruiting Vegetables (except Tomato), Garden Beet, Garlic, Head & Stem Brassica Vegetables, Herbs, Hops, Leaf Petioles, Leafy Brassica Greens, Leafy Greens, Mustard Seed, Non-Bearing Food Crops, Onion (Dry Bulb), Radish, Root Vegetables, , Sesame, Shallots (Dry Bulb), Strawberry, Tomato, and Turnip Greens:

When an adjuvant is to be used with this product, Arysta LifeScience North America, LLC recommends the use of a Chemical Producers and Distributors Association certified adjuvant.

GROUND APPLICATION

To ensure complete coverage, it is essential to use sufficient spray volumes and pressure. Use a minimum of 5 gallons and a maximum of 40 gallons of spray solution per acre. A minimum of 10 gallons per acre is required under the following conditions: 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 gallons per acre under these conditions can result in poor coverage and reduced grass control requiring repeat application. Set spray pressures to reflect a minimum of 30 psi and a maximum of 60 psi at the nozzle. Do not use flood nozzles.

Apply a minimum of 20 gallons of spray solution per acre to onions (dry bulbs), garlic and shallots (dry bulbs).

AIR APPLICATION

Use a minimum of 3 gallons of spray solution per acre unless otherwise directed in this label. If grass or crop foliage becomes dense, increase spray volumes up to 10 gallon.

For onions (dry bulbs), garlic or shallots (dry bulbs): Do not exceed 16 fl oz/A in a single application when applying by air. Apply a minimum of 20 gallons of spray solution per acre when applying by air to onions, garlic or shallots in the state of California.

In states other than California, make air applications to onions, garlic, and shallots in a minimum of 10 gallons per acre.

NOTE: Crop injury can occur when this product is applied to onions, garlic or shallots with aerial equipment.

Spot Treatment

Mix 1/3% to 2/3% (0.44 oz to 0.85 oz per gal) product when using hand sprayers or high volume sprayers utilizing hand guns. While not allowing runoff of spray solution, apply to wet vegetation.

NOTE: If ARY 0411-007 is applied as a spot treatment, do not exceed the maximum rate allowed on a "per acre" basis or crop injury could occur.

MIXING INSTRUCTIONS

1. Fill clean spray tank 1/2 to 2/3 of desired level with clean water. While agitating, add the correct amount of ARY 0411-007, making sure that agitation makes a rippling or rolling action on the water surface.
2. When tank mixing this product 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.
3. Add any required adjuvants (crop oil concentrate, nonionic surfactant and/or nitrogen solution.).
4. Fill spray tank to desired level with water.

Continue agitation 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. Verify mixing and compatibility qualities by conducting a jar test.

**CHEMIGATION – ONIONS (Dry Bulbs) AND GARLIC
SPRINKLER IRRIGATION APPLICATION**

DO NOT APPLY THIS PRODUCT BY CHEMIGATION IN THE STATES OF IDAHO, MONTANA, OREGON AND WASHINGTON.

Apply ARY 0411-007 at the high rate for annual grasses (32 fl oz per acre) when the grass height is at the low end of the range (application to larger grasses may not provide adequate control).

Make application of ARY 0411-007 in 0.1 to 0.2 acre-inch of water, either at the end of a regular irrigation set or as a separate application not associated with a regular irrigation using the least amount of water that provides proper distribution and coverage. Application of more than label recommended quantities of irrigation water per acre may result in decreased product performance by removing the chemical from the zone of effectiveness. Use a metering device to inject the ARY 0411-007 into the irrigation water at a constant flow. Constant agitation must be maintained in the chemical supply tank during the entire period of herbicide application. Inject the product with a positive displacement pump into the main line ahead of a right angle turn to ensure adequate mixing. Allow time for all lines to flush the herbicide through all nozzles before turning off irrigation water. To ensure the lines are flushed and free of remaining herbicide, a dye indicator may be injected into the lines to mark the end of the application period.

Do not apply ARY 0411-007 through an irrigation system connected to a public water system. Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regular serves an average of at least 25 individuals daily at least 60 days out of the year.

Precautions

1. Apply this product only through sprinkler including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move system(s). Do not apply this product through any other type of irrigation system.
2. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.
3. If you have questions about calibration, contact State Extension Service specialists, equipment manufacturers or other experts.
4. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.
5. A person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.
6. The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back flow.
7. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
8. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
9. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
10. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
11. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
12. Do not apply when wind speed favors drift beyond the area intended for treatment.

RESTRICTIONS AND LIMITATIONS

Tank mixes of ARY 0411-007 and broadleaf herbicides may result in reduced grass control. If grass regrowth occurs, an additional application of this product may be necessary.

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

Do not apply if rain is expected within 1 hour of application, as control may be unsatisfactory.

Do not apply a postemergence broadleaf herbicide within one day following application of ARY 0411-007 or reduced grass control may result.

Do not apply under conditions of stress. Applying ARY 0411-007 under conditions that do not promote active grass growth will reduce herbicide effectiveness. These conditions include, drought, excessive water, low humidity and extremes in temperature, and grasses either partially controlled or stunted from prior pesticide applications. Grasses under these kinds of stressful conditions will not absorb and translocate ARY 0411-007 effectively, and will be less susceptible to herbicide activity.

This product is not recommended for use on vegetable crops being grown for seed production unless specific use directions are provided.

While all the vegetable crops on this label have been tested and are tolerant to ARY 0411-007, not all specialty varieties of these crops have been tested. Before applying ARY 0411-007 to specialty varieties of vegetable crops on this label, it is advised that crop tolerance be investigated first using a small section of the field. It is possible that injury symptoms can occur. Symptoms may appear as leaf speckling or stunting.

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, result in a very staggered, non-uniform weed emergence. No fewer than two (2) ARY 0411-007 applications per season per year are recommended at the appropriate weed-growth stage rate under continuous no-till conditions, due to this non-uniform weed emergence.

Grass crops such as corn, rice, sorghum, small grains, or turf, etc. are highly sensitive to ARY 0411-007.

Application in Nassau and Suffolk Counties of New York State is restricted to no more than 32 fl oz of ARY 0411-007 (0.25 lb ai) per acre per season.

SPRAY DRIFT MANAGEMENT

The interaction of many equipment and weather-related factors determines the potential for spray drift. The applicator is responsible for considering all these factors when making application decisions.

AVOIDING SPRAY DRIFT IS THE RESPONSIBILITY OF THE APPLICATOR

IMPORTANCE OF DROPLET SIZE

The most effective way to reduce drift potential is to apply large droplets (>150 - 200 microns). The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. The presence of sensitive species nearby, the environmental conditions, and pest pressure may affect how an applicator balances drift control and coverage. **APPLYING LARGER DROPLETS REDUCES DRIFT POTENTIAL, BUT WILL NOT PREVENT DRIFT IF APPLICATIONS ARE MADE IMPROPERLY OR UNDER UNFAVORABLE ENVIRONMENTAL CONDITIONS!**

See Wind, Temperature and Humidity, and Temperature Inversions sections of this label.

CONTROLLING DROPLET SIZE -

Volume - Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.

Pressure - Use the lower spray pressures recommended for nozzle. Higher pressure reduces droplet size and does not improve canopy penetration.

WHEN HIGHER FLOW RATES ARE NEEDED, USE A HIGHER-CAPACITY NOZZLE INSTEAD OF INCREASING PRESSURE.

Nozzle Type - Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles.

CONTROLLING DROPLET SIZE - AIRCRAFT

Number of Nozzles – Use the minimum number of nozzles with the highest flow rate that provide uniform coverage.

Nozzle Orientation - Orienting nozzles so that the spray is emitted backwards, parallel to the airstream will produce larger droplets than other orientations.

Nozzle Type - Solid stream nozzles (such as disc and core with swirl plate removed) oriented straight back produce larger droplets than other nozzle types.

Boom Length - The boom length must not exceed 3/4 of the wing or rotor length – longer booms increase drift potential.

Application Height - Application more than 10 ft above the canopy increases the potential for spray drift.

BOOM HEIGHT

Setting the boom at the lowest labeled height (if specified), which provides uniform coverage reduces the exposure of droplets to evaporation and wind. For ground equipment, keep the boom level with the crop and have minimal bounce.

WIND

Drift potential increases at wind speeds of less than 3 mph (due to inversion potential) or more than 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given wind speed. **AVOID GUSTY OR WINDLESS CONDITIONS.**

Note: Local terrain can influence wind patterns. Every applicator must be familiar with local wind patterns and how they affect spray drift.

TEMPERATURE AND HUMIDITY

When making applications in hot and dry conditions, set up equipment to produce larger droplets to reduce effects of evaporation.

TEMPERATURE INVERSIONS

Drift potential is high during a temperature inversion. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain close to the ground and move laterally in a concentrated cloud. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no

wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

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

Repeated use of ARY 0411-007 (or similar postemergence grass herbicides 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. Biotypes are naturally occurring individuals of a species that are identical in appearance but have slightly different genetic compositions; the mode of action of a herbicide is the chemical interaction that interrupts a biological process necessary for plant growth and development.

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

ARY 0411-007⁽²⁾ USE RATES/RESTRICTIONS/LIMITATIONS

CROPS⁽¹⁾	MINIMUM TIME FROM APPLICATION TO HARVEST (PHI)	USE RATES PER ACRE ALLOWED FOR EACH CROP	Ammonium Sulfate	SPECIAL USE INSTRUCTIONS
Alfalfa Seedling⁽³⁾	15 days before grazing, feeding or harvesting (cutting) for forage or hay	9– 32 fl oz ⁽³⁾	2.5-4 lb/A or 8.5-17 lb/100 gallons of spray solution	Do not apply more than 32 fl oz/A per application. Do not apply more than 64 fl oz/A per season. Maintain a 14 day interval for repeat applications.
Alfalfa Established⁽³⁾ (²)including: Sainfoin Holy Clover Birdsfoot trefoil⁽³⁾	15 days before grazing, feeding or harvesting (cutting) for forage or hay	9– 32 fl oz ⁽³⁾	2.5-4 lb/A or 8.5-17 lb/100 gallons of spray solution	Do not apply more than 32 fl oz/A per application. Do not apply more than 64 fl oz/A per season. Maintain a 14 day interval for repeat applications.
Asparagus	1 day	9– 16 fl. oz	None	Do not apply more than 16 fl oz/A per application. Do not apply more than 64 fl oz/A per season. Maintain a 14 day interval for repeat applications.

CROPS⁽¹⁾	MINIMUM TIME FROM APPLICATION TO HARVEST (PHI)	USE RATES PER ACRE ALLOWED FOR EACH CROP	Ammonium Sulfate	SPECIAL USE INSTRUCTIONS
Beans, Dry Shelled^(A) including: Bean (<i>Lupinus</i> spp) Grain	30 days	9 – 32 fl oz	2.5-4 lb/A or 8.5-17 lb/100	Do not apply more than 32 fl oz/A per application. Do not apply more than 64 fl

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			gallons of spray solution	oz/A per season. Maintain a 14 day interval for repeat applications.
Bean, Succulent^(B) including: Bean (<i>Phaseolus</i> spp.) Broad Bean (succulent) Lima (dry) Bean (<i>Vigna</i> spp.) Black-eyed Pea Cowpea Southern Pea	21 days	9 – 16 fl oz	2.5-4 lb/A or 8.5-17 lb/100 gallons of spray solution	Do not apply more than one (1) application per acre per season.
Beet, Garden	30 days	12 – 16 fl oz	None	Do not apply more than 16 fl oz/A per application. Do not apply more than 64 fl oz/A per season. Maintain a 14 day interval for repeat applications.

CROPS ⁽¹⁾	MINIMUM TIME FROM APPLICATION TO HARVEST (PHI)	USE RATES PER ACRE ALLOWED FOR EACH CROP	Ammonium Sulfate	SPECIAL USE INSTRUCTIONS
Canola (not for use in California)	70 days	9 – 12 fl oz	2.5-4 lb/A or	Do not apply after crop has begun bolting. Do not

			8.5-17 lb/100 gallons of spray solution	exceed 12 fl oz/A in a season. Crop injury could occur when this product is applied during the bloom period
Carrot	30 days	9 – 16 fl oz	None	Do not apply more than 16 fl oz/A per application. Do not apply more than 64 fl oz/A per season. Maintain a 14 day interval for repeat applications.
Clover	15 days before grazing, feeding, or harvesting (cutting) for forage or hay	9 – 32 fl oz	2.5-4 lb/A or 8.5- 17 lb/100 gallons of spray solution	Do not exceed 32 fl oz/A in a season. For use on clover grown in the states of Idaho, Oregon and Washington only.
Cotton	60 days	9 – 32 fl oz	2.5-4 lb/A or 8.5-17 lb/100 gallons of spray solution	Do not graze treated fields or feed treated forage or hay to livestock. Do not apply more than 32 fl oz/A per application. Do not apply more than 64 fl oz/A per season. Maintain a 14 day interval for repeat applications.
Cranberry	30 days	9 – 16 fl oz	None	Do not apply more than 16 fl oz/A per application. Do not apply more than 64 fl oz/A per season. Maintain a 14 day interval for repeat applications. Do not apply between the "hook" stage and full fruit set.

CROPS⁽¹⁾	MINIMUM TIME FROM APPLICATION TO HARVEST (PHI)	USE RATES PER ACRE ALLOWED FOR EACH CROP	Ammonium Sulfate	SPECIAL USE INSTRUCTIONS
Cucurbits, ⁽¹⁾ including: Chayote (fruit) Chinese Wax Gourd Citron Melon Cucumber Gherkin	14 days	9 – 16 fl oz	None	Do not apply more than 16 fl oz/A per application. Do not apply more than 64 fl oz/A per season. Maintain a 14 day interval for repeat applications.

Gourd, Edible Muskmelons (all) including: Cantaloupes Honeydew Melon Pumpkins Squash (all) Watermelon				
Fallow Land (and other non- producing agricultural areas) Non-Crop or Non- Planted areas	N/A	9 – 32 fl oz	2.5-4 lb/A or 8.5-17 lb/100 gallons of spray solution	Do not plant any crop for 30 days following application unless clethodim is registered for use on that crop. Do not apply more than 32 fl oz/A per application. Do not apply more than 64 fl oz/A per season. Maintain a 14 day interval for repeat applications.
Flax (not for use in California)	60 days	9 – 16 fl oz	2.5-4 lb/A or 8.5-17 lb/100 gallons of spray solution	Do not apply more than 16 fl oz/A per application. Do not apply more than 32 fl oz/A per season. Maintain a 14 day interval for repeat applications. Make application prior to bloom. If applied during bloom, crop injury could occur.
Fruiting Vegetables (except Tomato) ^(D) including: Eggplant Groundcherry Pepino Peppers (all) Tomatillo	20 days	9 – 16 fl oz	None	Do not apply more than 16 fl oz/A per application. Do not apply more than 64 fl oz/A per season. Maintain a 14 day interval for repeat applications.

CROPS⁽¹⁾	MINIMUM TIME FROM APPLICATION TO HARVEST (PHI)	USE RATES PER ACRE ALLOWED FOR EACH CROP	Ammonium Sulfate	SPECIAL USE INSTRUCTIONS
Head & Stem ^(C) Brassica Vegetables, including: Broccoli Cabbage Cauliflower Brussels Sprouts	30 days	9– 16 fl oz	None	Do not apply more than 16 fl oz/A per application. Do not apply more than 64 fl oz/A per season. Maintain a 14 day interval for repeat applications.
Herbs including: ^(E) Angelica	14 days	9 – 16 fl oz	None	This product has not been tested on all herbs, and herb

<p>Balm Basil Borage Burnet Chamomile Catnip Chervil, (dried) Chive Chinese chive Clary Coriander (leaf) Costmary Culantro (leaf) Curry (leaf) Dill (dillweed) Horehound Hyssop Lavender Lovage (leaf) Marigold Marjoram (<i>origanum</i> spp) Nasturtium Parsley (dried) Pennyroyal Rosemary Rue Sage: Savory, Summer and Winter Sweet Bay, Tansy, Tarragon, Thyme, Wintergreen, Woodruff, Wormwood</p>				<p>varieties. It is the responsibility of the user to test this product on a small portion of the crop to be treated before treating the entire field.</p> <p>Verify crop tolerance to this product on a small area of the herb crop, at the desired rate. If no crop response is evident seven (7) days after treatment, this product may be used on the entire field at the same rate tested and with the same crop oil used in the tolerance test.</p> <p>Do not apply more than 16 fl oz/A per application. Do not apply more than 64 fl oz/A per season.</p> <p>Maintain a 14 day interval for repeat applications.</p>
<p>Hops</p>	<p>21 days</p>	<p>9 – 16 fl oz</p>	<p>None</p>	<p>Do not apply more than 16 fl oz/A per application. Do not apply more than 64 fl oz/A per season.</p> <p>Maintain a 14 day interval for repeat applications.</p>

CROPS ⁽¹⁾	MINIMUM TIME FROM APPLICATION TO HARVEST (PHI)	USE RATES PER ACRE ALLOWED FOR EACH CROP	Ammonium Sulfate	SPECIAL USE INSTRUCTIONS
<p>Leaf Petioles ^(K) including: Celery Cardoon Chinese celery Celtuce Florence fennel Rhubarb Swiss chard</p>	<p>30 days</p>	<p>9 – 16 fl oz</p>	<p>None</p>	<p>Do not apply more than 16 fl oz/A per application. Do not apply more than 64 fl oz/A per season.</p> <p>Maintain a 14 day interval for repeat applications.</p>
<p>Leafy Brassica</p>	<p>14 days</p>	<p>9– 16 fl oz</p>	<p>None</p>	<p>Do not apply more than 16 fl</p>

<p>Greens, ^(J) including: Broccoli Raab Cabbage, Chinese (Bok Choy) Collards Kale Mizuna Mustard Greens Mustard Spinach Rape Greens</p>				<p>oz/A per application. Do not apply more than 64 fl oz/A per season.</p> <p>Maintain a 14 day interval for repeat applications.</p>
<p>Leafy Greens ^(H) including: Amaranth Chinese Spinach Leafy Amaranth Tampala Arugula (roquette) Chervil Chrysanthemum, edible-leaved Corn Salad Cress Garden Yellow rock Winter Dandelion Dock (sorrel) Endive (escarole) Lettuce (head and leaf) Orach Parsley Purslane Garden Winter Radicchio (red chicory), Spinach New Zealand Vine (Indian and malabar)</p>	<p>14 days</p>	<p>9 – 16 fl oz</p>	<p>None</p>	<p>Do not apply more than 16 fl oz/A per application. Do not apply more than 64 fl oz/A per season.</p> <p>Maintain a 14 day interval for repeat applications.</p>

<p>CROPS⁽¹⁾</p>	<p>MINIMUM TIME FROM APPLICATION TO HARVEST (PHI)</p>	<p>USE RATES PER ACRE ALLOWED FOR EACH CROP</p>	<p>Ammonium Sulfate</p>	<p>SPECIAL USE INSTRUCTIONS</p>
<p>Legume Vegetables. Edible Podded ^(G) including: Bean (<i>Phaseolus</i> spp.) Runner Snap Wax Bean (<i>Vigna</i> spp.) Asparagus Chinese Longbean</p>	<p>21 days</p>	<p>9 – 16 fl oz</p>	<p>2.5-4 lb/A or 8.5-17 lb/100 gallons of spray solution</p>	<p>Do not apply more than 16 fl oz/A in a single application.</p> <p>Do not apply more than one (1) application per acre per season.</p> <p>For peas apply before bloom, but no later than 21</p>

Moth Yardlong Jackbean Pea (<i>Pisum</i> spp.) Dwarf Edible-pod Snow Sugar Snap Pigeon Sword Bean.				days before harvest.
Lentils	30 days	9 – 32 fl oz	2.5-4 lb/A or 8.5-17 lb/100 gallons of spray solution	Do not apply more than 32 fl oz/A per application. Do not apply more than 64 fl oz/A per season. Maintain a 14 day interval for repeat applications. See additional BEAN, DRY SHELLED, for additional SPECIAL USE INSTRUCTIONS.
Mint	21 days	12 – 32 fl oz ⁽⁴⁾	2.5-4 lb/A or 8.5-17 lb/100 gallons of spray solution	Do not apply more than 32 fl oz/A per application. Do not apply more than 64 fl oz/A per season. Maintain a 14 day interval for repeat applications.
Mustard Seed (Not for use in California)	75 days	9 – 12 fl oz	None	Do not apply more than 12 fl oz in a season. Do not apply after crop has begun bolting. If applied during the bloom period, crop injury could occur.

CROPS ⁽¹⁾	MINIMUM TIME FROM APPLICATION TO HARVEST (PHI)	USE RATES PER ACRE ALLOWED FOR EACH CROP	Ammonium Sulfate	SPECIAL USE INSTRUCTIONS
Onions ^(4,5,6) (Dry Bulbs Only) Garlic ^(4,5,6) Shallots ^(4,5,6) (Dry Bulbs Only)	45 days	9 – 32fl oz ⁽⁷⁾⁽⁸⁾	None	Minimum 20 gals/A spray volume by ground in entire U.S. Minimum 20 gals/A spray volume by air in California ⁽⁹⁾ States Other than California: Make application by air to onions, garlic or shallots in a minimum of 10 gals/A Do not apply more than 32 fl oz/A per application.

				Do not apply more than 64 fl oz/A per season. Maintain a 14 day interval for repeat applications
Non-Bearing Food Crops⁽⁵⁾	N/A	9 – 16 fl oz ⁽⁸⁾	None	Sugar Maples cannot be tapped for syrup within one year of application. Do not apply more than 16 fl oz/A per application. Do not apply more than 64 fl oz/A per season. Maintain a 14 day interval for repeat applications.
Pea, Dry Shelled,^{(7)(A)} including: Pea (<i>Pisum</i> spp.) Field Pigeon	30 days	9 – 16 fl oz	2.5-4 lb/A or 8.5-17 lb/100 gallons of spray solution	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 30 days before harvest. ⁽¹⁰⁾
Pea, Succulent Shelled^{(7)(B)} including: Pea (<i>Pisum</i> spp.) English Pea Garden Pea Green Pea Pigeon Pea	21 days	9 – 16 fl oz	2.5-4 lb/A or 8.5-17 lb/100 gallons of spray solution	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. ⁽¹⁰⁾

CROPS⁽¹⁾	MINIMUM TIME FROM APPLICATION TO HARVEST (PHI)	USE RATES PER ACRE ALLOWED FOR EACH CROP	Ammonium Sulfate	SPECIAL USE INSTRUCTIONS
Peanut (including perennial) Not for use in California	40 days	9 – 32 fl oz	2.5-4 lb/A or 8.5-17 lb/100 gallons of spray solution	Do not apply more than 32 fl oz/A per application. Do not apply more than 64 fl oz/A per season. Except in Florida where the limit is 64 oz/ac per year (Perennial peanuts only) Maintain a 14 day interval for repeat applications
Potato	30 days	9 – 32 fl oz	2.5-4 lb/A or 8.5-17 lb/100 gallons of spray solution	Do not apply more than 32 fl oz/A per application. Do not apply more than 64 fl oz/A per season. Maintain a 14 day interval for

				repeat applications.
Radish	15 days	9 – 16 fl oz	None	Do not apply more than 16 fl oz/A per application. Do not apply more than 32 fl oz/A per season. Maintain a 14 day interval for repeat applications.
Root Vegetables ^(F) (except Radish), including: Chicory Ginseng Horseradish Turnip	30 days	9 – 16 fl oz	None	Do not apply more than 16 fl oz/A per application. Do not apply more than 64 fl oz/A per season. Maintain a 14 day interval for repeat applications.
Safflower	70 days	9 – 16 fl oz	2.5-4 lb/A or 8.5-17 lb/100 gallons of spray solution	Do not apply more than 16 fl oz/A per application. Do not apply more than 32 fl oz/A per season. Maintain a 14 day interval for repeat applications.
Sesame	14 days	9– 16 fl oz	None	Do not apply during flowering. Do not apply more than 16 fl oz/A per application. Do not apply more than 64 fl oz/A per season. Maintain a 14 day interval for repeat applications.

CROPS⁽¹⁾	MINIMUM TIME FROM APPLICATION TO HARVEST (PHI)	USE RATES PER ACRE ALLOWED FOR EACH CROP	Ammonium Sulfate	SPECIAL USE INSTRUCTIONS
Soybean	60 days	9 – 32 fl oz	2.5-4 lb/A or 8.5-17 lb/100 gallons of spray solution	Do not graze treated fields or feed treated forage or hay to livestock. Do not apply more than 32 fl oz/A per application. Do not apply more than 64 fl oz/A per season. Maintain a 14 day interval for repeat applications..
Strawberry	4 days	9– 16 fl oz	None	Do not apply more than 16 fl oz/A per application. Do not apply more than 64 fl oz/A per season. Maintain a 14 day interval for repeat applications.
Sugar Beet	40 days	9 – 32 fl oz	2.5-4 lbs/A or 8.5-17 lb/100 gallons of spray solution	Do not apply more than 32 fl oz/A per application. Do not apply more than 64 fl oz/A per season.

				Maintain a 14 day interval for repeat applications..
Sunflower	70 days	9 – 32 fl oz	2.5-4 lbs/A or 8.5-17 lb/100 gallons of spray solution	Do not apply more than 32 fl oz/A per application. Do not apply more than 64 fl oz/A per season. Maintain a 14 day interval for repeat applications.
Sweet Potato, Yam and other tuberous and corm vegetables (except Potato),^(L) including: Artichoke Chinese Jerusalem Cassava Bitter Sweet Ginger	30 days	9 – 32 fl oz	2.5-4 lb/A or 8.5-17 lb/100 gallons of spray solution	Do not apply more than 32 fl oz/A per application. Do not apply more than 64 fl oz/A per season. Maintain a 14 day interval for repeat applications..

CROPS⁽¹⁾	MINIMUM TIME FROM APPLICATION TO HARVEST (PHI)	USE RATES PER ACRE ALLOWED FOR EACH CROP	Ammonium Sulfate	SPECIAL USE INSTRUCTIONS
Tomato	20 days	9-32 fl oz	None	Do not apply more than 32 fl oz/A per application. Do not apply more than 64 fl oz/A per season. Maintain a 14 day interval for repeat applications.
Turnip Greens	14 days	9 – 16 fl oz	None	Do not apply more than 16 fl oz/A per application. Do not apply more than 64 fl oz/A per season. Maintain a 14 day interval for repeat applications.

N/A – Not Applicable

(1) ARY 0411-007 is not recommended for use on vegetable crops being grown for seed production unless specific use directions are provided.

(2) ARY 0411-007 contains oil adjuvant. Use caution when applying to crops that are sensitive to oils or when mixing with products that caution against the use of oil adjuvants.

(3) This product can be applied to seedling or established alfalfa grown for seed, hay, silage, green chop or direct grazing.

(4) Do not exceed 16 fl oz/A in a single application for ground applications to garlic or shallots. Do not exceed 16 fl oz/A in a single application for air applications to onion, garlic or shallots. Do not exceed 2 applications per season for garlic and shallots. In CA, do not exceed 2 applications per season for air applications to onions.

(5) Care must be taken to not exceed the maximum rate allowed on a "per acre" basis when ARY 0411-007 is applied as a spot treatment to onions, garlic, shallots, or non-bearing food crops or crop injury could occur.

- (6) In CA, do not apply this product to onions, garlic, or shallots until the crop has at least two full leaves. In CA, 14-day spray intervals are recommended between the application of this product and liquid nitrogen or other herbicide applications. Injury to crop could occur when shorter intervals are observed.
- (7) Applications of this product to peas during the bloom period could result in severe crop injury, including loss of yield and delayed maturity.
 - (A) Other Dry Shelled Bean and Pea crops approved for use with this product include: Bean (*Lupinus* spp.) grain, sweet, white and sweet; Bean (*Phaseolus* spp.), field, kidney, lima (dry), navy, pinto and tepary; Bean (*Vigna* spp.), adzuki, 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
 - (B) Other Succulent Bean and Pea, Succulent Shelled crops approved for use with this product include: Bean (*Lupinus* spp.) grain, sweet, white and sweet; Bean (*Phaseolus* spp.), field, kidney, lima (dry), navy, pinto and tepary; Bean (*Vigna* spp.), adzuki, 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
 - (C) Other Head and Stem Brassica approved for use with this product include: Chinese broccoli, Brussels sprouts, Chinese (napa) cabbage, Chinese mustard, cavalo broccolo, and kohlrabi
 - (D) Other Fruiting Vegetables (except tomato) approved for use with this product include: eggplant, groundcherry, Pepino, peppers (all) and tomatillo
 - (E) Other Herb crops approved for use with this product: angelica, balm, basil, borage, burnet, chamomile, catnip, chervil, (dried), chive, Chinese chive, clary, coriander (leaf), costmary, culantro (leaf), curry (leaf), dill (dillweed), horehound, hyssop, lavender, lovage (leaf), marigold, marjoram (*origanum* spp), nasturtium, parsley (dried), pennyroyal, rosemary, rue, sage and savory, summer and winter.
 - (F) Other Root Vegetables approved for use with this product include: burdock, edible; celeriac; chervil, turnip-rooted; chicory, ginseng; parsley, turnip-rooted; parsnip; radish, oriental; rutabaga; salsify; salsify, black; salsify, Spanish; skirret and turnip.
 - (G) Other Edible Podded Legume Vegetable crops approved for use with this product: 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.
 - (H) Other Leafy Greens crops approved for use with this product include: amaranth (Chinese spinach, leafy amaranth and tampala), arugula (roquette), chervil, chrysanthemum (edible-leaved and garland), corn salad, cress (garden, yellow rock and winter), dandelion, dock (sorrel), endive (escarole), lettuce (head and leaf), orach, parsley, purslane (garden and winter), radicchio (red chicory), spinach (New Zealand and Vine (Indian and malabar)).
 - (I) Other Cucurbit crops approved for use with this product include: chayote (fruit), Chinese wax gourd, citron melon, edible gourd, gherkin and muskmelons (all, including honeydew melon).
 - (J) Other Leafy Brassica Greens approved for use with this product include: broccoli raab, Chinese (bok choy) cabbage, collards, kale, mizuna, mustard greens, mustard spinach, rape greens.
 - (K) Other Leaf Petiole crops approved for use with this product include: cardoon, celtuce, Chinese celery, Florence fennel, and Swiss chard.
 - (L) Other Tuber and Corm Vegetables approved for use with this product include: arracacha, arrowroot, Chinese artichoke, Jerusalem artichoke, edible canna, bitter and sweet cassava, chayote (root), chufa, dasheen (taro), ginger, leren, tanier, tumeric and bean yam.

ATTENTION

Plant tolerance to ARY 0411-007 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 ARY 0411-007 have investigated the safety factor to plants not listed on this label.

NON-BEARING FOOD CROPS

DO NOT APPLY ARY 0411-007 TO NON-BEARING FRUIT OR NUT CROPS GROWN FOR ROOT STOCK.

If ARY 0411-007 is improperly applied, crop injury to non-bearing fruit and nut crops can occur. Do not apply ARY 0411-007 directly over the top of these plant types. Rather, direct the spray 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 an application of ARY 0411-007.

NON-BEARING FOOD CROPS	
COMMON NAME	SCIENTIFIC NAME
APPLES	<i>Malus</i> spp.
BERRIES	<i>Vaccinium</i> spp.
	<i>Rubus</i> spp.

COMMON NAME	SCIENTIFIC NAME
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 tribola</i>
Filbert	<i>Corylus maxima</i>
Pecan	<i>Carya illinoensis</i>
Pistachio	<i>Pistacia vera</i>
Walnut	<i>Juglans 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; post-harvest croplands; and beneath greenhouse benches and around golf courses.

**DIRECTIONS FOR ANNUAL GRASSES
(EXCEPT FOR IN ESTABLISHED ALFALFA AND MINT)**

- Make application to actively growing grasses at recommended weed heights.
- Make application when the first grass weed species in a mixed grass weed population reaches the recommended growth stage for treatment.
- Use the higher rate under heavy grass pressure and/or when grasses are at maximum heights.

GRASS SPECIES	SCIENTIFIC NAME	WEED HEIGHT* (inches)	RATE FL OZ/ A	HIGH RATE ⁽³⁾
Barnyardgrass	<i>Echinochloa crus-galli</i>	2 to 8	9	16
Broadleaf Signalgrass	<i>Brachiaria platyphylla</i>	2 to 6	9	16

GRASS SPECIES	SCIENTIFIC NAME	WEED HEIGHT* (inches)	RATE FL OZ/ A	HIGH RATE ⁽³⁾
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 dichotomiflorum</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 glauc</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
Ryegrass				
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
Sprangle top				
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⁽²⁾				
Barley	<i>Hordeum vulgare</i>	2 to 6	9	16

GRASS SPECIES	SCIENTIFIC NAME	WEED HEIGHT* (inches)	RATE FL OZ/ A	HIGH RATE ⁽³⁾
Oats	<i>Avena sativa</i>	2 to 6	9	16
Rye	<i>Secale cereale</i>	2 to 6	9	16
Wheat	<i>Triticum aestivum</i>	2 to 6	12	16
Volunteer Corn ⁽¹⁾	<i>Zea mays</i>	up to 12	6	12
Volunteer Corn ⁽¹⁾	<i>Zea mays</i>	up to 24	9	14
Volunteer Corn ⁽¹⁾	<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
Woolly Cupgrass	<i>Eriochloa villosa</i>	2 to 8	9	16

*Generally occurs between 3-leaf stage and tillering.

**Length of lateral growth.

(1) Includes Roundup Ready®, Liberty Link®, and IMI-CORN® volunteer corn

(2) The minimum ARY 0411-007 use rate for control when a cereal grain crop (such as wheat) is interseeded for crop establishment or is planted as wind breaks to aid crop establishment is 16 fl oz/A.

(3) Where experience has shown that higher rates are needed for satisfactory control of annual grasses, rates higher than 16 fl oz/A may be applied in certain geographic areas, cropping situations, or environmental conditions. In these situations, rates from 16 to 32 fl oz/A can be applied. Do not apply more than 16 fl oz/A of ARY 0411-007 per application to the following crops: asparagus, carrot, cranberry, cucurbits, flax, fruiting vegetables (except tomato), garden beet, head and stem brassica vegetables, herbs, hops, leaf petioles, leafy brassica greens, leafy greens, non-bearing food crops, root vegetables, safflower, sesame and strawberry.
Do not apply more than 12 fl oz/A of product per application to canola or mustard seed.

**DIRECTIONS FOR ANNUAL & PERENNIAL GRASS CONTROL
IN ESTABLISHED ALFALFA AND MINT WITH ARY 0411-007**

GRASS SPECIES	WEED STAGE	RATE FL OZ/ A	HIGH RATE
Annual & perennial Grasses Listed in Grass Table	See Table	12	**
<p>Mowing: Achieving the best control of annual grasses can be made by applying ARY 0411-007 before grass weeds are mowed. Once 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. Even though these grasses may be an annual grass, they may require repeated application of ARY 0411-007 for partial or complete control.</p> <p>Irrigated Alfalfa and Mint: Irrigation practices can be very critical to the successful use of ARY 0411-007 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 an 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.</p> <p>Aerial Application: When applying by air in established alfalfa and mint, apply ARY 0411-007 in a minimum of 10 GPA.</p> <p>Annual Grass Control: Make application at the grass sizes indicated in the Recommendation for Annual Grass Table and rates indicate. If a grass has been cut, make application after active growth has resumed and regrowth has reached the minimum height and before it reaches the maximum height indicated. Make application 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 ARY 0411-007 may vary from region to region. In addition, some annuals germinate over an extended period of time and because control of small grasses is desired, application 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.</p> <p>Perennial Grass Control: ARY 0411-007 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.</p> <p>Use the high rate under heavy grass pressure and/or when grasses are at or near maximum height. **See Crop Specific Use Directions, for maximum application rates and restrictions.</p>			

DIRECTIONS FOR ANNUAL BLUEGRASS CONTROL WITH ARY 0411-007

GRASS SPECIES	WEED STAGE	RATE FL/OZ A	HIGH RATE
Annual Bluegrass (<i>Poa annua</i>)	to 4-leaf	12*	**
<p>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).</p> <p>Apply at weed stage indicated on the label, as reduced control can be expected with more mature annual bluegrass.</p> <p>Use the high rate under heavy grass pressure and/or when annual bluegrass is more mature.</p> <p>*Use a minimum of 17 fl oz/A to control annual bluegrass in seedling and established alfalfa and mint. **See Crop Specific Use Directions, for maximum application rates and restrictions.</p>			

**DIRECTIONS FOR REDUCED RATE USE IN
CANOLA, DRY SHELLED BEAN & PEA (INCLUDING SOYBEAN), EDIBLE PODDED LEGUME VEGETABLES, FLAX,
MUSTARD SEED, SUCCULENT BEAN & PEA AND SUGAR BEET**

**DIRECTIONS FOR SMALL ANNUAL GRASSES
(REDUCED RATE DIRECTIONS NOT FOR USE IN CALIFORNIA)**

- Make application only to actively growing grasses and the recommended weed heights.
- Make application 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.

ANNUAL GRASS SPECIES	SCIENTIFIC NAME	WEED HEIGHT (Inches)	RATE FL OZ/ A
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 ciliaris</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

DIRECTIONS FOR PERENNIAL GRASSES

- Make application only to actively growing grasses at the listed weed heights. Make application when the first grass weed species in a mixed grass weed population reaches the listed growth stage for treatment.

PERENNIAL GRASS SPECIES ⁽²⁾	WEED HEIGHT (inches)	RATE FL OZ/ A	HIGH RATE ⁽¹⁾
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(s) (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	12	32
Perennial Bluegrass			
Roughstalk (<i>Poa trivialis</i>)			
Kentucky (<i>Poa prantensis</i>)			
First Application	2 to 4	12	32
Repeat Application(s) (if regrowth occurs)	2 to 4	12	32
Bentgrass (<i>Agrostis spp.</i>)			
First Application	2 to 4	-	32
Repeat Application(s) (if regrowth occurs)	2 to 4	-	32

⁽¹⁾Use the higher rate under heavy grass pressure and/or when grasses are at maximum height. Do not apply more than 16 fl oz/A of ARY 0411-007 per application to the following crops: asparagus, carrot, cranberry, cucurbits, flax, fruiting vegetables (except tomato), garden beet, head and stem brassica vegetables, herbs, hops, leaf petioles, leafy brassica greens, leafy greens, non-bearing food crops, root vegetables, safflower, sesame and strawberry. Do not apply more than 12 fl oz/A of product per application to canola or mustard seed.

⁽²⁾Control of perennial grasses such as quackgrass, perennial bluegrass and bentgrass with this product may be enhanced by adding AMS.

TANK MIXES

INFORMATION

The labels for each of the herbicides recommended for tank mixing with ARY 0411-007 are unique to the characteristics of those products and contain restrictions and limitations that may be more restrictive than ARY 0411-007 in certain considerations. Those concerns may include, but are not limited to:

- Geographic restrictions – all products are not registered for use in all areas and rates may vary from one region of labeled use to another
- Crop rotation restrictions may differ
- Applicator certification requirements
- Worker safety rules, i.e., personal protective equipment (PPE), reentry time, posting
- Soil characteristics or soil type, e.g. pH, OM
- Number of applications and or maximum dosage per season
- Rain free period required – or
- Application timing, e.g. pre-harvest interval
- Total season rates not to be exceeded.

ALWAYS FOLLOW THE MOST RESTRICTIVE LABELING OF ANY PRODUCT USED IN A TANK MIX.

DIRECTIONS FOR TANK MIX APPLICATION OF ARY 0411-007 AND BROADLEAF HERBICIDES FOR CONTROL OF GRASSES AND BROADLEAF WEEDS

- Make application only to actively growing grass and broadleaf weeds at listed height or growth stage listed on each label.
- Make application when the first grass or broadleaf weed species in a mixed population reaches the listed height or growth stage for treatment.
- Make application under favorable soil moisture and humidity that exist a few days after rainfall or within seven (7) days after irrigation.
- Always add the appropriate adjuvant to the spray mix at the rate recommended for each specific tank mix combination.
- Tank mix application can 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, apply a second application of ARY 0411-007 as specified in the respective size and rate tables.
- Do Not tank mix ARY 0411-007 when broadleaf weeds are tall and/or dense enough to prevent proper grass coverage.

ANTAGONISM INFORMATION

Tank mixes of ARY 0411-007 with postemergence broadleaf herbicides have shown some reduction or failure to control certain grass species, which would have otherwise been controlled by ARY 0411-007 alone. Activity of the postemergence broadleaf herbicide in the tank mix is not affected.

ALFALFA

Table 1. ARY 0411-007 TANK MIXES WITH BROADLEAF HERBICIDES FOR ALFALFA

NOTE: See direction tables above for specific grasses and growth stages

TANKMIX PRODUCT ²	ARY 0411-007 APPLICATION RATES/A ¹	
	ANNUAL GRASSES	PERENNIAL GRASSES
2,4-DB ³	20 – 32 fl oz	20 – 32 fl oz
PURSUIT® DG ⁴		
OR PURSUIT ⁴		
RAPTOR®		
BUCTRIL® 2L ^{5,6}		
OR BUCTRIL GEL ^{5,6}		

- 1 If grass regrowth occurs or an additional flush of new grass emerges, apply a second application of ARY 0411-007 alone – without a tank mix herbicide, according to the appropriate size and rate recommendation.
- 2 Follow the label of the broadleaf tankmix partner for recommended rates and adjuvant use.
- 3 ARY 0411-007 plus 2,4-DB may increase the severity of crop injury when tankmixed. Alfalfa will generally outgrow this temporary crop injury within a few weeks. Do not apply ARY 0411-007 and 2,4-DB as a tankmix to alfalfa unless the 60 day feeding, grazing, and harvesting restriction on the 2,4-DB label can be observed.
- 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 States of Colorado, Idaho, Montana, Nevada, Oregon, Utah, Washington, Wyoming and the western halves of Kansas, Nebraska, North Dakota, South Dakota: The tank mix of ARY 0411-007 plus BUCTRIL or BUCTRIL GEL must be applied in the fall or spring to seedling alfalfa when the majority of the field has a minimum of 2 trifoliolate. Unacceptable crop injury can occur to alfalfa seedlings less than the 2 trifoliolate leaf stage. BUCTRIL or BUCTRIL GEL plus ARY 0411-007 applications made when temperatures are expected to exceed 80°F 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 trifoliolate leaves. Unacceptable crop injury may occur to alfalfa in the 2 trifoliolate or smaller stage growth, when alfalfa stand is uneven and conditions favor leaf burn. When applications of ARY 0411-007 plus BUCTRIL or BUCTRIL GEL are made when temperatures are expected to exceed 70°F and three days following such application can result in unacceptable crop injury. Crop leaf burn can occur following ARY 0411-007 plus BUCTRIL or BUCTRIL GEL applications. Warm, humid conditions may enhance leaf burn. However, new crop growth will not be affected.
- 6 Do not make application when alfalfa is under moisture, temperature, insect or disease stress or has been stressed by other pesticide carryover or application.

REDUCED RATE ARY 0411-007 TANK MIXES WITH BROADLEAF HERBICIDES FOR CANOLA
 (See direction tables above for specific grasses and growth stages)

TANKMIX PRODUCT ¹	ARY 0411-007 ² APPLICATION RATES/A	
	ANNUAL GRASSES ⁴	PERENNIAL GRASSES
Ignite® 280 SL Herbicide ³	8 – 10 fl oz	-

1. Follow the label of the broadleaf tankmix partner for recommended rates and adjuvant use.
2. Do not apply ARY 0411-007 tank mix during or after bolting or flowering or crop injury could occur.
3. For use only on LibertyLink® canola.
4. Annual grasses and sizes controlled with these tank mixtures are those that are identified in the DIRECTIONS FOR REDUCED RATE USE IN DRY BEAN, CANOLA, FLAX, MUSTARD SEED, SOYBEAN AND SUGAR BEET FOR SMALL ANNUAL GRASSES table.

ARY 0411-007 TANK MIXED WITH COBRA® AND MSMA APPLIED POST DIRECTED TO COTTON

TANKMIX PRODUCT ¹	ARY 0411-007 APPLICATION RATES/A ²		COMMENTS
	ANNUAL GRASSES ³	PERENNIAL GRASSES ³	
COBRA® + MSMA (4.0 lbs/gal) or MSMA (6.6 lbs/gal)	12 – 16 fl oz	16 – 32 fl oz	Reduce broadcast rate in proportion to the band area actually treated.

1. Follow the label of the broadleaf tankmix partner for recommended rates and adjuvant use.
2. If grass regrowth occurs or an additional flush of new grass emerges, apply a second application of ARY 0411-007 alone – without a tank mix herbicide – according to the appropriate size and rate recommendations.
3. 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 can result and a second non-post directed application of ARY 0411-007 may be necessary.

ARY 0411-007 TANK MIXED WITH GLYPHOSATE TO CONTROL EMERGED GRASSES IN ROUNDUP READY COTTON AS A BROADCAST APPLICATION

TANKMIX PRODUCT ¹	ARY 0411-007 APPLICATION RATE/A	
	ANNUAL GRASSES	PERENNIAL GRASSES
GLYPHOSATE	9 – 16 fl oz	12 – 32 fl oz

1. Follow the label of the tankmix partner for recommended rates and adjuvant use.

ARY 0411-007 TANK MIXES WITH BROADLEAF HERBICIDES FOR DRY SHELLLED AND SUCCULENT BEANS

(See direction tables above for specific grasses and growth stages)

TANKMIX PRODUCT ²	ARY 0411-007 APPLICATION RATES/A ¹	
	ANNUAL GRASSES	PERENNIAL GRASSES
BASAGRAN®	16– 20 fl oz	20 – 32 fl oz
RAPTOR		

1. If grass regrowth occurs or an additional flush of new grass emerges, make a second application of ARY 0411-007 alone – without a tank mix herbicide – according to the appropriate size and rate recommendations.
2. Follow the label of the tankmix partner for recommended rates and adjuvant use. .

REDUCED RATE ARY 0411-007 TANK MIXES WITH BROADLEAF HERBICIDES FOR FLAX

(See direction tables above for specific grasses and growth)

TANKMIX PRODUCT ^{1,2,3}	ARY 0411-007 APPLICATION RATES/A	
	ANNUAL GRASSES ⁴	PERENNIAL GRASSES
BRONATE® ADVANCED™	6 – 9 fl oz	-
Bromoxynil + MCPA		
BUCTRIL®		
Curtail® M		
MCPA		

1. Follow the label of the tankmix partner for recommended rates and adjuvant use.
2. Do Not apply ARY 0411-007 tank mix during or after the bud stage or to ornamental flax as crop injury can occur
3. Do Not apply tank mixes when temperatures are expected to exceed 85°F at or for 3 days following application as crop injury can occur.
4. Annual grasses and sizes controlled with these tank mixtures are those that are identified in the DIRECTIONS FOR REDUCED RATE USE IN DRY BEAN, CANOLA, FLAX, MUSTARD SEED, SOYBEAN AND SUGAR BEET FOR SMALL ANNUAL GRASSES table.

SOYBEAN

ARY 0411-007 TANK MIX- WITH GLYPHOSATE FOR THE CONTROL OF VOLUNTEER CORN (INCLUDING ROUNDUP READY) IN SOYBEAN

TANKMIX PRODUCT ^{1,2}	ARY 0411-007 APPLICATION RATE/A	CORN HEIGHT (inches)
GLYPHOSATE (for use on Roundup Ready Soybean only)	6 fl oz	Up to 12 inches
	9 fl oz	Up to 24 inches
	12 fl oz	Up to 36 inches

1. Follow the label of the tankmix partner for recommended rates and adjuvant use.
2. This tankmix may be applied postemergent to Roundup Ready soybeans up through full flowering stage. Do not apply less than 60 days before harvest.

ARY 0411-007 TANK MIXES WITH BROADLEAF HERBICIDES FOR SOYBEAN (See direction tables above for specific grasses and growth stages)

TANKMIX PRODUCT ^{2,4,5}	ARY 0411-007 APPLICATION RATE FOR ANNUAL GRASS CONTROL ^{1,3}	
COBRA FIRSTRATE®	9-20 fl oz/A	
FLEXSTAR® HL ⁶ FRONTROW™		
HARMONY® GT PHOENIX™		
RESOURCE®		
BASAGRAN PURSUIT 70 DG RAPTOR		12-20 fl oz/A
SYNCHRONY® STS or SYNCHRONY XP (mp) (STS soybeans only)		

1. If grass regrowth occurs or an additional flush of new grass emerges, make a second application of ARY 0411-007 alone – without a tank mix herbicide – according to the appropriate size and rate recommendations.
2. Follow the label of the tankmix partner for recommended rates and adjuvant use.
3. AMS can be added to all tankmix partners for improved grass control.
4. Refer to the label of the tankmix partner for geographic and rotational restrictions.
5. Annual grasses and sizes controlled with these tank mixtures are those that are identified in the DIRECTIONS FOR REDUCED RATE USE IN DRY BEAN, CANOLA, FLAX, MUSTARD SEED, SOYBEAN AND SUGAR BEET FOR SMALL ANNUAL GRASSES table.

ARY 0411-007 TANK MIXES WITH BROADLEAF HERBICIDES FOR PEANUT (See direction tables above for specific grasses and growth stages)

TANKMIX PRODUCT ²	ARY 0411-007 APPLICATION RATES/A ¹	
	ANNUAL GRASSES	PERENNIAL GRASSES
BASAGRAN STORM® ULTRA BLAZER®	9 – 16 fl oz	

1. Make a second application of ARY 0411-007 alone – without a tank mix herbicide – according to the appropriate size and rate recommendations, if grass regrowth occurs or an additional flush of new grass emerges.
2. Follow the label of the tankmix partner for recommended rates and adjuvant use.

DIRECTIONS FOR GRASS SUPPRESSION FOR HARVEST EFFICIENCY IN PEANUT WITH ARY 0411-007

GRASS SPECIES	WEED STAGE	RATE FL OZ/ A	HIGH RATE
Annual and perennial grasses that exceed height claimed for control on height charts “DIRECTIONS FOR ANNUAL GRASSES” & “DIRECTIONS FOR PERENNIAL GRASSES”	Up to and including grasses in the seed head stage	32	64
Do Not apply as part of a tank mix when applying ARY 0411-007 for grass suppression.			

**ARY 0411-007 TANK MIXED WITH STINGER® HERBICIDE OR FUNGICIDES APPLIED TO SUGAR BEET
(See direction tables above for specific grasses and growth stages)**

TANKMIX PRODUCT ²	ARY 0411-007 APPLICATION RATES/A ¹	
	ANNUAL GRASSES ³	PERENNIAL GRASSES
STINGER	9 – 12 fl oz	12-24 fl oz
EMINENT®		
HEADLINE®		
GEM™		

1. Make a second application of ARY 0411-007 alone – without a tank mix herbicide – according to the appropriate size and rate recommendations, if grass regrowth occurs or an additional flush of new grass emerges.
2. Follow the label of the tankmix partner for recommended rates and adjuvant use.
3. Annual grasses and sizes controlled with these tank mixtures are those that are identified in the DIRECTIONS FOR REDUCED RATE USE IN DRY BEAN, CANOLA, FLAX, MUSTARD SEED, SOYBEAN AND SUGAR BEET FOR SMALL ANNUAL GRASSES table.

TANK MIX APPLICATION OF ARY 0411-007 AND INSECTICIDES FOR CONTROL OF GRASS WEEDS AND INSECTS IN ALFALFA, COTTON, MINT, PEANUT (INCLUDING PERENNIAL), SOYBEAN AND SUNFLOWER

TANKMIX PRODUCT ^{2,3}	ARY 0411-007 APPLICATION RATES/A ¹		CROP					
	ANNUAL GRASSES	PERENNIAL GRASSES	Alfalfa ⁴	Cotton	Mint ^{4,5}	Peanut	Soybean	Sunflower
ORTHENE® 75 S or ORTHENE 97	9 – 12 fl oz	12 – 24 fl oz		X	X	X		
ORTHENE 90 S ^b	9 – 12 fl oz	12 – 24 fl oz		X	X	X	X	
DANITOL® 2.4 EC	9 – 12 fl oz	12 – 24 fl oz		X		X		
ASANA®XL	9 – 12 fl oz	12 – 24 fl oz					X	X
WARRIOR®	9 – 12 fl oz	12 – 24 fl oz					X	X
BATTALION® 1.5EC or BATTALION 0.2EC	9 – 12 fl oz	12 – 24 fl oz		X			X	X
BAYTHROID®	9 – 12 fl oz	12 – 24 fl oz	X				X	
DIMETHOATE	9 – 12 fl oz	12 – 24 fl oz	X				X	
LORSBAN®	9 – 12 fl oz	12 – 24 fl oz	X				X	
POUNCE®	9 – 12 fl oz	12 – 24 fl oz	X				X	

1. Make a second application of ARY 0411-007 alone – without a tank mix insecticide – according to the appropriate size and rate recommendations, if grass regrowth occurs or an additional flush of new grass emerges.
2. Follow the label of the tankmix partner for recommended rates and adjuvant use.
3. AMS can be used for improved grass control with all tankmix partners.
4. Certain insecticides can cause temporary phytotoxic symptoms on alfalfa and mint foliage. See the insecticide label for further information. Prior to using any of these insecticide/herbicide tank mixtures, it is suggested a small area of the field be treated and observed for crop injury before treating the entire field.
5. Rates for ARY 0411-007 for annual grass control in baby mint are 9– 12 fl oz/A; minimum of 12 fl oz/A for annual grass control in established mint and 16 – 32 fl oz/A for perennial grass control.

FALLOW LAND DIRECTIONS FOR USE

ARY 0411-007 can be used to control annual and perennial grasses in land that has been left fallow the previous year and on other non-producing agricultural areas. Make application at 12 – 16 fl oz/A for annual grasses and 16 – 32 fl oz/A for perennial grasses. ARY 0411-007 can be tanked mixed with 2,4-D ester or BANVEL® SGF for broad spectrum control when both grass and broadleaf weeds are the target pest. Apply a minimum of 16 fl oz/A ARY 0411-007 when both annual and perennial grasses occur in the same field.

INFORMATION

Use a minimum spray volume of 5 gallons/A for aerial applications and 15 gallons/A for ground applications. Make applications only to actively growing grasses when the first grass reaches the recommended weed height as specified by the "Directions for Annual and Perennial Grasses" section of this label.

Do not apply to drought stressed grasses.

Do not apply to grasses that have tillered, formed seed-heads or exceeded recommended growth stage.

Do not flood jet nozzles.

Do not plant any crop for 30 days after application unless ARY 0411-007 is registered for use on that crop.

Annual grasses that emerge after the ARY 0411-007 application will not be controlled and a second application could be necessary.

Do not mow area for two (2) weeks prior to or after the ARY 0411-007 application.

Control of perennial grasses may require more than one (1) application in non-tilled areas.

ARY 0411-007 IN TANK MIXES TO CONTROL ANNUAL AND PERENNIAL GRASSES IN FALLOW LAND

TANKMIX PRODUCT	ARY 0411-007 APPLICATION RATES/A ¹	
	ANNUAL GRASSES	PERENNIAL GRASSES
2,4-D ester or BANVEL SGF	12 – 16 fl oz	16 – 32 fl oz.

¹ See the BANVEL SGF and 2,4-D labels for use rates, adjuvant use, weeds controlled and crop rotation restrictions.

DIRECTIONS FOR GRASS SUPPRESSION IN NON-CROP AREAS WITH ARY 0411-007

GRASS SPECIES	WEED STAGE	RATE FL OZ/A	HIGH RATE
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
Do not apply as part of a tank mix when applying ARY 0411-007 for grass suppression.			

ARY 0411-007 FOR THE CONTROL AND/OR SUPPRESSION OF TALL FESCUE IN NATIVE PRAIRIE WARM-SEASON GRASS RESTORATION PROJECTS

PRODUCT	PRODUCT RATES	GRASS WEEDS CONTROLLED/SUPRESSED		WEED STAGES
		Common Name	Scientific Name	
ARY 0411-007	12 – 16 fl oz/A	Tall Fescue	<i>Festuca arundinacea</i>	4 to 6 inches tall (40-60% green-up)
ADJUVANT: ARY 0411-007 must be applied with a spray grade ammonium sulfate (AMS) at 2.5 – 4 lb/A or 8.5-17 lb/100 gallons of spray solution.				
Recommended Mixing Order: Thoroughly mix spray grade ammonium sulfate in water, then add ARY 0411-007.				

SPECIAL APPLICATION INSTRUCTIONS/PRECAUTIONS

Burn or mow fields a minimum of 3 weeks prior to application to remove excess crop residue. Make application in the spring at 40 – 60% tall fescue green-up, prior to emergence of warm-season grasses. Do not mow area for two (2) weeks after the ARY 0411-007 application.

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

Make application only to fields that have warm season grasses established for two (2) years. Application of ARY 0411-007 to emerged warm-season grasses may cause injury. Do not make applications to warm-season grasses grown for seed.

Do not graze treated fields or feed treated forage and/or hay to livestock. Do not plant any crop for 30 days after application, unless clethodim is registered for use on that crop.

ATTENTION: ARY 0411-007 applications are most effective if applied when average nighttime temperatures are consistently greater than or equal to 47°F.

ARY 0411-007 FOR THE SUPPRESSION OF TALL FESCUE SEED-HEADS IN NONPRODUCING AGRICULTURAL AREAS

PRODUCT	PRODUCT RATE	SUPPRESSION	APPLICATION TIMING
ARY 0411-007	3 – 4 fl oz/A	Tall Fescue Seed-Heads (<i>Festuca arundinacea</i>)	(50 to 90% Tall Fescue green-up)
ADJUVANT: ARY 0411-007 must be applied with a spray grade ammonium sulfate (AMS) at 2.5 – 4 lb/A or 8.5-17 lbs/100 gallons of spray solution. Recommended Mixing Order: Thoroughly mix spray grade ammonium sulfate in water, then add ARY 0411-007.			

SPECIAL APPLICATION INSTRUCTIONS/PRECAUTIONS

Make application at 50 – 90% tall fescue green-up.

If less tall fescue green matter is present, use the higher ARY 0411-007 rate.

Do not mow area for two (2) weeks after the ARY 0411-007 application.

Make application in a minimum of 15 – 20 gallons water per acre at a spray pressure of 40 – 60 PSI at the nozzle. Make application using flat fan or hollow cone nozzles. Do not use flood nozzles.

2,4-D ester, Tordon® 22K, Grazon®, P+D or Crossbow® may be added to this tank mix for broadleaf control (see the tankmix label for use rates, and for weeds controlled.)

Do not graze treated fields or feed treated forage and/or hay to livestock. Do not plant any crop for 30 days after application unless clethodim is registered for use on that crop.

STORAGE AND DISPOSAL

PESTICIDE STORAGE: Store product in original container only. Store in a cool, dry place. Do not store diluted spray. Do not contaminate water, other pesticides, fertilizer, food or feed in storage or cleaning of equipment. Open dumping is prohibited.

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

CONTAINER DISPOSAL:

Containers equal to or less than 5 gallons: Nonrefillable container.

Do not reuse or refill this container. Triple-rinse container (or equivalent) promptly after emptying. 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 ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Containers greater than 5 gallons: Nonrefillable container. Do not reuse or refill this container. Triple-rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. 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, if available, or puncture and dispose of in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

REFILLABLE CONTAINERS: 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 procedure two more times.

Warranty and Disclaimer Statement

The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Such risks may arise from weather conditions, soil factors, off-target movement, unconventional farming techniques, the presence of other materials, the manner of use or application, or other unknown factors, all of which are beyond the control of Arysta LifeScience North America, LLC ("Arysta"), and can cause crop injury, injury to non-target crops or plants, ineffectiveness of the product, or other unintended consequences. All such risks shall be assumed by the user or buyer. Arysta warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks described above, when used in accordance with the Directions for Use under normal conditions. This warranty does not extend to the use of this product contrary to label instructions or under conditions not reasonably foreseeable to Arysta, and is subject to the inherent risks described above.

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