



U.S. ENVIRONMENTAL PROTECTION AGENCY

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

EPA Reg. Number:

1381-271

Date of Issuance:

5/25/21

NOTICE OF PESTICIDE:

Registration  
 Reregistration  
(under FIFRA, as amended)

Term of Issuance:

Unconditional

Name of Pesticide Product:

AGH19012

Name and Address of Registrant (include ZIP Code):

Winfield Solutions, LLC  
P.O. Box 64589  
St. Paul, MN 55164-0589

**Note:** Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product when the Agency requires all registrants of similar products to submit such data.
2. The data requirements for storage stability and corrosion characteristics (Guidelines 830.6317 and 830.6320) are not satisfied. A one year study is required to satisfy these data requirements. You have 18 months from the date of registration to provide these data.

Signature of Approving Official:

for Product Manager 24 (Vacant)  
Fungicide-Herbicide Branch  
Registration Division 7505P

Date:

5/25/21

3. Make the following label changes before you release the product for shipment:
  - Revise the EPA Registration Number to read, “EPA Reg. No. 1381-271.”
4. Submit one copy of the revised final printed label for the record before you release the product for shipment.

Should you wish to add/retain a reference to the company’s website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA’s Office of Enforcement and Compliance.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated 06/09/2020
- Alternate CSF 1-6 06/09/2020

If you have any questions, please contact Marc Sheahin by phone at 703-347-8639, or via email at [sheahin.marc@epa.gov](mailto:sheahin.marc@epa.gov).

Enclosure

**ACCEPTED**

05/25/2021

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 1381-271

**CLETHODIM GROUP 1 HERBICIDE**

# AGH19012 [ABN Cleanse 2]

**ACTIVE INGREDIENT:**

Clethodim\* .....26.4%

**OTHER INGREDIENTS:** .....73.6%

**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

AGH19012 contains 2.0 lbs. clethodim per gallon.

## KEEP OUT OF REACH OF CHILDREN WARNING / AVISO

“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.)”

<b>IF IN EYES:</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF SWALLOWED:</b>	<ul style="list-style-type: none"> <li>• Immediately call a poison control center or doctor.</li> <li>• <b>DO NOT</b> induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• <b>DO NOT</b> give <b>any</b> liquid to the person.</li> <li>• <b>DO NOT</b> give anything by mouth to an unconscious person.</li> </ul>
<b>IF ON SKIN OR CLOTHING:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF INHALED:</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>NOTE TO PHYSICIANS:</b> Contains petroleum distillate. Vomiting may cause aspiration pneumonia.	
<b>HOT LINE NUMBER:</b> Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-877-424-7452 for emergency medical treatment information.	

SEE BOOKLET FOR ADDITIONAL PRECAUTIONARY STATEMENTS, COMPLETE DIRECTIONS FOR USE, WARRANTY DISCLAIMER AND LIMITATION OF WARRANTY.

EPA Reg. No. 1381-XXX

NET CONTENTS: \_\_\_\_\_ gallons

EPA Est. No. \_\_\_\_\_

**Manufactured for:**

Winfield Solutions, LLC  
P.O. Box 64589  
St. Paul, MN 55164-0589

2/0429/1

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**WARNING:** Causes substantial but temporary eye injury. Harmful if swallowed. **DO NOT** get in eyes or on clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

### PERSONAL PROTECTIVE EQUIPMENT

**Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of Barrier Laminate or Viton > 14 mils
- Shoes plus socks
- Protective eyewear (goggles, face shield or safety glasses)

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:

- Remove clothing/PPE 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.

**NON-TARGET ORGANISM ADVISORY:** This product is toxic to plants and may adversely impact the forage and habitat of non-target organisms, including pollinators, in areas adjacent to the treated area. Protect the forage and habitat of non-target organisms by following label directions intended to minimize spray drift.

### PHYSICAL OR CHEMICAL HAZARDS

**DO NOT** use with or store near any oxidizing or reducing agents.

## DIRECTIONS FOR USE

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

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

### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the 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, including plants, soil, or water is:

- Coveralls
- Chemical-resistant gloves made of Barrier Laminate or Viton >14 mils
- Shoes plus socks
- Protective eyewear (goggles, face shield or safety glasses)

### 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.

## PRODUCT INFORMATION

AGH19012 is a selective postemergence herbicide for control of annual and perennial grasses. This product does not control sedges or broadleaf weeds.

### AGH19012 Use Precautions:

- Tank mixes of AGH19012 and broadleaf herbicides may result in reduced grass control. If grass regrowth occurs, an additional application of AGH19012 may be necessary.
- Control may be unsatisfactory if rain is expected within one hour of application.
- Applying a postemergence broadleaf herbicide within one day following application of AGH19012 may result in reduced grass control.
- Applying AGH19012 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 AGH19012 effectively and will be less susceptible to herbicide activity.
- While all vegetable crops on this label have been tested for crop safety to AGH19012, not all specialty varieties of these crops have been tested. It is advised that, before applying AGH19012 to specialty varieties of vegetable crops on this label, crop sensitivity 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, including continuous no-tillage in which the perennial grass rhizomes or stolons are not cut up, result in a very staggered, non-uniform weed emergence. Due to this non-uniform weed emergence, no fewer than two AGH19012 applications per year are specified at the appropriate weed-growth stage rate under continuous no-till conditions.
- If AGH19012 is allowed to contact desirable grass crops, including corn, rice, sorghum, small grains, or turf, these and other grass crops will be injured or killed. Minor leaf spotting may occur on treated plants under certain environmental conditions. New foliage is not affected.
- 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 including crop rotation, mechanical removal, and other classes of herbicides are not used from year to year.

### **AGH19012 Use Restrictions:**

- Refer to the Crop Specific Use Instructions for information pertaining to:
  - Maximum single application rates.
  - Number of applications allowed per year.
  - Maximum amount of product that may be applied per year.
  - Minimum spray intervals between applications.
- Application on Long Island, New York, is restricted to no more than 16 fl. oz. (0.25 lb. ai) of AGH19012 per acre per year, adjust the maximum number of applications allowed per year accordingly.
- Aerial application for all Tree Fruits and Tree Nuts are prohibited.
- It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.
- **DO NOT** use on vegetable crops being grown for seed production unless specific use directions are provided in this table.

### **Rotational Restriction**

**DO NOT** plant rotational crops until 30 days after application of AGH19012 unless the crop is listed on this label.

### **WEED RESISTANCE MANAGEMENT**

For resistance management, AGH19012 is a Group 1 herbicide. Any weed population may contain or develop plants naturally resistant to AGH19012 and other Group 1 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. Appropriate resistance-management strategies should be followed.

To delay herbicide resistance, take one or more of the following steps:

- Rotate the use of AGH19012 or other Group 1 herbicides within a growing season sequence or among growing seasons with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group if such use is permitted; where information on resistance in target weed species is available use the less resistance-prone partner at a rate that will control the target weed(s) equally as well as the more resistance-prone partner. Consult your local extension service or certified crop advisor if you are unsure as to which active ingredient is currently less prone to resistance.
- Adopt an integrated weed-management program for herbicide use that includes scouting and uses historical information related to herbicide use and crop rotation, and that considers tillage (or other mechanical control methods), cultural (e.g., higher crop seeding rates; precision fertilizer application method and timing to favor the crop and not the weeds), biological (weed-competitive crops or varieties) and other management practices.

- Fields should be scouted prior to application to identify the weed species present and their growth stage to determine if the intended application will be effective.
- Scout fields after herbicide application to monitor weed populations for early signs of resistance development. Indicators of possible herbicide resistance include:
  - 1) Failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds.
  - 2) A spreading patch of non-controlled plants of a particular weed species.
  - 3) Surviving plants mixed with controlled individuals of the same species.

If resistance is suspected, prevent weed seed production in the affected area by an alternative herbicide from a different group or by a mechanical method such as hoeing or tillage. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields, and planting clean seed.
- If a weed pest population continues to progress after treatment with this product, discontinue use of this product, and switch to another management strategy or herbicide with a different mode of action, if available.
- Contact your local extension specialist, certified crop advisors, and/or Winfield Solutions, LLC representative for pesticide resistance management and/or integrated weed management recommendations for specific crops and resistant weed biotypes.
- For further information or to report suspected resistance, contact your Winfield Solutions, LLC representative.

## APPLICATION INFORMATION

### Application Timing

Apply AGH19012 postemergence to actively growing grasses according to prescribe rates in this label. Applying AGH19012 to grass plants under stress from insufficient moisture, hot or cold temperatures, or to grass plants exceeding specified growth stages may result in unsatisfactory control.

In arid regions where irrigation is used to supplement limited rainfall, apply AGH19012 as soon as possible after an irrigation (within 7 days). In arid regions, a second application of AGH19012 may provide more effective control of perennial grass weeds than a single application. Make the 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 AGH19012 may reduce weed control. Control may be unsatisfactory if rain is expected within one hour of application.

### 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.

### Ground Application

Use of sufficient spray volumes and pressure is essential to ensure complete coverage. Use a minimum of 5 gallons and a maximum of 40 gallons of spray solution per acre. Under the following conditions a minimum of 10 gallons per acre is required: 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 applications. Spray pressures needs to reflect a minimum of 30 psi and a maximum of 60 psi at the nozzle. **DO NOT** use flood nozzles.

Use a minimum of 20 gallons of spray solution per acre for onions (dry bulbs and green), garlic, and shallots (dry bulbs and green).

## **Air Application**

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

In California, use a minimum of 20 gallons of spray solution per acre, when applying by air to onions, garlic or shallots. In states other than California, make air application to onions, garlic or shallot in a minimum of 10 gallons of spray solution per acre.

For onions (dry bulbs and green), garlic, or shallots (dry bulbs and green): **DO NOT** exceed 8 fl. oz./A (0.125 lb. ai) in a single application when applying by air.

**Crop injury may occur when this product is applied to onions, garlic, or shallots with aerial equipment.**

## **Spot Treatment**

When using hand sprayers or high-volume sprayers utilizing hand guns, mix 1/4% to 1/2% (0.33 oz. to 0.65 oz. per gallon) AGH19012 and treat to wet vegetation, while not allowing runoff of spray solution. For uses where crop oil concentrate (COC) or methylated seed oil (MSO) are advised, include the COC or MSO at 1% (1.3 oz. per gallon) by volume. For uses where non-ionic surfactant (NIS) is advised, include non-ionic surfactant at 1/4% (0.33 oz. per gallon) by volume.

**If AGH19012 is applied as a spot treatment, care must be taken to not exceed the maximum rate allowed on a “per acre” basis or crop injury may occur.**

## **Chemigation – ONIONS (DRY BULB), GREEN ONION AND GARLIC ONLY** **Sprinkler Irrigation Application**

May be applied to onions and garlic by sprinkler irrigation systems.

Apply AGH19012 at the highest rate prescribed for annual grasses (16 fl. oz./A - 0.25 lb. ai/A) when the grass height is at the low end of the range (application to larger grasses may not provide adequate control). Add a crop oil concentrate containing at least 15% emulsifier at 1 quart per acre or non-ionic surfactant with at least 80% active ingredient at 0.25% v/v of total spray solution.

Apply AGH19012 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 specified 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 AGH19012 into the irrigation water at a constant flow.

Maintain constant agitation 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 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 regularly serves an average of at least 25 individuals daily at least 60 days out of the year.



**Chemigation Restrictions:**

- **DO NOT APPLY AGH19012 BY CHEMIGATION IN THE STATES OF IDAHO, MONTANA, OREGON AND WASHINGTON.**
- Apply this product only through irrigation systems including center pivot, lateral move, end tow, side (wheel) roll, travelers, bug gun or hand move. **DO NOT** apply this product through any other type of irrigation system.
- **DO NOT** connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the label-prescribed safety devices for public water supplies are in place.
- **DO NOT** apply when wind speed favors drift beyond the area intended for treatment.

**Chemigation Precautions:**

- Crop injury, lack of effectiveness, or illegal pesticide residues in the crop may result from nonuniform distribution of treated water.
- If you have any questions about calibration, contact State Extension Service specialists, equipment manufacturers or other experts.

**Chemigation System Requirements:**

- The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
- The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- The pesticide injection pipeline must also contain a functional, normally closed solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- 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.
- 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.
- A person knowledgeable of the chemigation system and responsible for its operation or under supervision of the responsible person, must shut the system down and make necessary adjustments should the need arise.

**ADDITION OF ADJUVANT**

The addition of a crop oil concentrate or methylated seed oil or a non-ionic surfactant will improve the performance of AGH19012. Crop oil concentrates and methylated seed oils can cause crop injury with certain tank mix partners or on sensitive crops. Under these circumstances, non-ionic surfactants (NIS) can be used in place of crop oil concentrates. Reduced weed control may result from use of non-ionic surfactant, instead of crop oil concentrates. Oil/nitrogen blend adjuvants may be substituted for crop oil concentrates or methylated seed oil at appropriate equivalent use rates. Under drought conditions, methylated seed oil adjuvants can be used in place of COCs to improve performance. Methylated seed oils can increase crop injury potential and care must be taken when considering their use. Ammonium sulfate (AMS) or urea-ammonium nitrate (UAN), and similar liquid foliar nitrogen fertilizers can improve control of hard to control grasses and help overcome potential antagonism from tank mix partners. The use of AMS or UAN is only allowed on specified crops and may increase the possibility of crop injury under some conditions.

See the Crop Specific Use Instructions for further information on adjuvant use.

An acceptable non-ionic surfactant (NIS) refers to an adjuvant containing at least 80% non-ionic surfactant.

Acceptable crop oil concentrates would be those which contain a minimum of 80% oils and 15% emulsifier. 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.

When an adjuvant is to be used with this product, Winfield Solutions, LLC recommends the use of a Council of Producers & Distributors of Agrotechnology certified adjuvant.

## **SPRAY DRIFT MANAGEMENT**

### **MANDATORY SPRAY DRIFT**

#### **Aerial Applications:**

- **DO NOT** release spray at a height greater than 10 feet above the vegetative canopy, unless a greater application height is necessary for pilot safety.
- Applicators are required to use a coarse or coarser droplet size (ASABE S572.1).
- The boom length must not exceed 65% of the wingspan for airplanes or 75% of the rotor diameter for helicopters.
- Applicators must use ½ swath displacement upwind at the downwind edge of the field.
- Nozzles must be oriented so the spray is directed toward the back of the aircraft.
- **DO NOT** apply when wind speeds exceed 10 miles per hour at the application site.
- **DO NOT** apply during temperature inversions.

#### **Ground Boom Applications:**

- Apply with the nozzle height recommended by the manufacturer, but no more than 3 feet above the ground or crop canopy. For all other ground applications, the nozzle must be no more than 3 feet from the target vegetation.
- Applicators are required to use a medium or coarser droplet size (ASABE S572.1)
- **DO NOT** apply when wind speeds exceed 10 miles per hour at the application site.
- **DO NOT** apply during temperature inversions.

### **Spray Drift Advisories**

THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT. BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.

### **Importance of Droplet Size**

An effective way to reduce drift potential is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.

#### **Controlling Droplet Size - Ground Boom**

- Volume – Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.
- Pressure – Use the lowest spray pressure recommended for the nozzle to produce the target spray volume and droplet size.
- Nozzle Type – Use a nozzle type that is designed for the intended application. Consider using nozzles designed to reduce drift.

#### **Controlling Droplet Size – Aircraft**

Adjust Nozzles – Follow nozzle manufacturers recommendations for setting up nozzles. Generally, to reduce fine droplets, nozzles should be oriented parallel with the airflow in flight.

### **Boom Height- Ground Boom**

For ground equipment, the boom should remain level with the crop and have minimal bounce.

**Release Height- Aircraft**

Higher release heights increase the potential for spray drift.

**Shielded Sprayers**

Shielding the boom or individual nozzles can reduce spray drift. Consider using shielded sprayers. Verify that the shields are not interfering with the uniform deposition of the spray on the target area.

**Temperature and Humidity**

When making application in hot and dry conditions, use larger droplets to reduce effects of evaporation.

**Temperature Inversions**

Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. The presence of an inversion can be indicated by ground fog or 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 dissipated indicates good vertical air mixing. Avoid applications during temperature inversions.

**Wind**

Drift potential generally increases with wind speed. AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS. Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.

**TABLE 1: CROP SPECIFIC USE INSTRUCTIONS FOR AGH19012**

Application on Long Island, New York, is restricted to no more than 16 fl. oz./A (0.25 lb. ai/A) of AGH19012 per year, adjust the maximum number of applications allowed per year accordingly.

See the **Addition of Adjuvant** section of this label for further information on adjuvants.

<b>Alfalfa, established</b> including: Sainfoin, Holy Clover, Birdsfoot trefoil			
<b>Minimum Time from Application to Harvest (PHI)</b>	<b>Use Rates Per Acre</b>	<b>Adjuvant Rates Per Acre</b>	<b>Specific Use Instructions</b>
15 days before grazing, feeding or harvesting (cutting) for forage or hay	6 - 16 fl. oz. (0.094 – 0.25 lb. ai)	Non-ionic Surfactant (NIS) at 0.25% v/v  or  1 qt. Crop Oil Concentrate or Methylated Seed Oil by ground or 1% v/v (but not less than 1 pt./A) by air	For weed control in established alfalfa, the minimum use rate is 10 fl. oz./A (0.156 lb. ai/A).  This product can be applied to established alfalfa grown for seed, hay, silage green chop or direct grazing.  1-2 quarts /A of liquid fertilizer (10-34-0, 28% N or 32% N), or an equivalent amount (2.5 – 4.0 lbs. /A) of spray grade ammonium sulfate (AMS) may be added to AGH19012 applications, in addition to the specified rate of crop oil concentrate.  The addition of AMS has shown improved grass control for difficult to control species including: quackgrass, Rhizome johnsongrass, red rice, wild oats, volunteer cereals, and volunteer corn.  For repeat applications, make on a minimum of a 14-day interval.  When applying to Established Alfalfa, see Table 3 "Established Alfalfa, Peppermint and Spearmint Tops" for additional application information.
<b>Restrictions</b>			
<ul style="list-style-type: none"> <li>• <b>DO NOT</b> apply more than 32 fl. oz./A (0.50 lb. ai/A) per year.</li> <li>• <b>DO NOT</b> apply more than 16 fl. oz./A (0.25 lb. ai/A) in a single application.</li> <li>• <b>DO NOT</b> exceed four 6 - 8 fl. oz./A (0.094 - 0.125 lb. ai/A) applications per year, three 8 - 10 fl. oz./A (0.125 - 0.156 lb. ai/A) applications per year or two 10 - 16 fl. oz./A (0.156 - 0.25 lb. ai/A) applications per year.</li> <li>• <b>DO NOT</b> make repeat applications less than 14-days apart.</li> <li>• <b>DO NOT</b> plant rotational crops until 30 days after application of AGH19012.</li> <li>• <b>DO NOT</b> apply AGH19012 and 2,4-DB as a tank mix to alfalfa unless the 60-day feeding, grazing, and harvesting restriction on the 2,4-DB label can be observed.</li> </ul>			

<b>Alfalfa, seedling</b>			
<b>Minimum Time from Application to Harvest (PHI)</b>	<b>Use Rates Per Acre</b>	<b>Adjuvant Rates Per Acre</b>	<b>Specific Use Instructions</b>
15 days before grazing, feeding or harvesting (cutting) for forage or hay	6 - 16 fl. oz. (0.094 – 0.25 lb. ai)	Non-ionic Surfactant (NIS) at 0.25% v/v	AGH19012 may be applied to seedling alfalfa grown for seed, hay, silage, green chop, or direct grazing.  Refer to tank mix partners for feeding, grazing, and harvesting restrictions.  For repeat applications, make on a minimum of a 14-day interval.
<b>Restrictions</b>			
<ul style="list-style-type: none"> <li>• <b>DO NOT</b> apply more than 32 fl. oz./A (0.50 lb. ai/A) per year.</li> <li>• <b>DO NOT</b> apply more than 16 fl. oz./A (0.25 lb. ai/A) in a single application.</li> <li>• <b>DO NOT</b> exceed four 6 - 8 fl. oz./A (0.094 - 0.125 lb. ai/A) applications per year, three 8 - 10 fl. oz./A (0.125 - 0.156 lb. ai/A) applications per year or two 10 - 16 fl. oz./A (0.156 - 0.25 lb. ai/A) applications per year.</li> <li>• <b>DO NOT</b> make repeat applications less than 14-days apart.</li> </ul>			

<b>Artichoke, Globe</b>			
<b>Minimum Time from Application to Harvest (PHI)</b>	<b>Use Rates Per Acre</b>	<b>Adjuvant Rates Per Acre</b>	<b>Specific Use Instructions</b>
5 days	6 - 8 fl. oz. (0.094 - 0.125 lb. ai)	Non-ionic Surfactant (NIS) at 0.25% v/v	For repeat applications, make on a minimum of a 14-day interval.
<b>Restrictions</b>			
<ul style="list-style-type: none"> <li>• <b>DO NOT</b> apply more than 8 fl. oz./A (0.125 lb. ai/A) in a single application.</li> <li>• <b>DO NOT</b> apply more than 32 fl. oz./A (0.50 lb. ai/A) per year.</li> <li>• <b>DO NOT</b> exceed four applications per acre per year.</li> <li>• <b>DO NOT</b> make repeat applications less than 14-days apart.</li> <li>• <b>DO NOT</b> use on vegetable crops being grown for seed production unless specific use directions are provided in this table.</li> </ul>			

<b>Asparagus</b>			
<b>Minimum Time from Application to Harvest (PHI)</b>	<b>Use Rates Per Acre</b>	<b>Adjuvant Rates Per Acre</b>	<b>Specific Use Instructions</b>
1 day	6 - 8 fl. oz. (0.094 - 0.125 lb. ai)	Non-ionic Surfactant (NIS) at 0.25% v/v	For repeat applications, make on a minimum of a 14-day interval.
<b>Restrictions</b>			
<ul style="list-style-type: none"> <li>• <b>DO NOT</b> apply more than 8 fl. oz./A (0.125 lb. ai/A) in a single application.</li> <li>• <b>DO NOT</b> apply more than 32 fl. oz./A (0.50 lb. ai/A) per year.</li> <li>• <b>DO NOT</b> exceed four applications per acre per year.</li> <li>• <b>DO NOT</b> make repeat applications less than 14-days apart.</li> <li>• <b>DO NOT</b> use on vegetable crops being grown for seed production unless specific use directions are provided in this table.</li> </ul>			

<b>Beans, <u>Dry Shelled except Soybean</u></b> (Dried Shelled Bean, except Soybean, Crop Subgroup 6C) including: <b>Bean (<i>Lupinus</i> spp.):</b> Grain lupin, Sweet lupin, White lupin, White sweet lupin; <b>Bean (<i>Phaseolus</i> spp.):</b> Field bean, Kidney bean, Lima bean (dry), Navy bean, Pinto bean, Tepary bean; <b>Bean (<i>Vigna</i> spp.):</b> Adzuki bean, Black-eyed pea, Catjang, Cowpea, Crowder pea, Moth bean, Mung bean, Rice bean, Southern pea, Urd bean; <b>Broad bean (dry); Chickpea (garbanzo); Guar; Lablab bean; Lentil</b>			
<b>Minimum Time from Application to Harvest (PHI)</b>	<b>Use Rates Per Acre</b>	<b>Adjuvant Rates Per Acre</b>	<b>Specific Use Instructions</b>
30 days	6 - 16 fl. oz. (0.094 - 0.25 lb. ai)	Non-ionic Surfactant (NIS) at 0.25% v/v  or  1 qt. Crop Oil Concentrate by ground or 1% v/v (but not less than 1 pt./A) by air	For reduced rate directions for the control of small annual grasses, refer to Table 5.  1 to 2 qts./A of liquid fertilizer (10-34-0, 28% N or 32% N), or an equivalent amount (2.5 to 4.0 lbs./A) of spray grade ammonium sulfate (AMS) may be added to AGH19012 applications, in addition to the specified rate of crop oil.  The addition of Ammonium Sulfate (AMS) has shown improved grass control for difficult to control species including: quackgrass, Rhizome johnsongrass, red rice, wild oats, volunteer cereals, and volunteer corn.  For repeat applications, make on a minimum of a 14-day interval.
<b>Restrictions</b>			
<ul style="list-style-type: none"> <li>• <b>DO NOT</b> apply more than 16 fl. oz./A (0.25 lb. ai/A) in a single application.</li> <li>• <b>DO NOT</b> apply more than 32 fl. oz./A (0.50 lb. ai/A) per year.</li> <li>• <b>DO NOT</b> exceed four 6 - 8 fl. oz./A (0.094 - 0.125 lb. ai/A) applications per year, three 8 - 10 fl. oz./A (0.125 - 0.156 lb. ai/A) applications per year or two 10 - 16 fl. oz./A (0.156 - 0.25 lb. ai/A) applications per year.</li> <li>• For Reduced Rate Control for Small Annual Grasses: <b>DO NOT</b> exceed four applications per acre per year.</li> <li>• <b>DO NOT</b> make repeat applications less than 14-days apart.</li> </ul>			

**Beans, Succulent Shelled** (Succulent Shelled Bean; Crop Subgroup 6B)  
**including: Bean (*Phaseolus spp.*):** Broad bean (succulent), Lima bean (green); **Bean (*Vigna spp.*):** Black-eyed pea, Cowpea, Southern pea

Minimum Time from Application to Harvest (PHI)	Use Rates Per Acre	Adjuvant Rates Per Acre	Specific Use Instructions
21 days	6 - 8 fl. oz (0.094 - 0.125 lb. ai)	Non-ionic Surfactant (NIS) at 0.25% v/v  or  1 qt. Crop Oil Concentrate by ground or 1% v/v (but not less than 1 pt./A) by air	For reduced rate directions for the control of small annual grasses, refer to Table 5.  1 to 2 qts./A of liquid fertilizer (10-34-0, 28% N or 32% N), or an equivalent amount (2.5 to 4.0 lbs./A) of spray grade ammonium sulfate (AMS) may be added to AGH19012 applications, in addition to the specified rate of crop oil.  The addition of Ammonium Sulfate (AMS) has shown improved grass control for difficult to control species including: quackgrass, rhizome johnsongrass, red rice, wild oats, volunteer cereals and volunteer corn.

**Restrictions**

- **DO NOT** apply more than 8 fl. oz./A (0.125 lb. ai/A) in a single application.
- **DO NOT** apply more than 8 fl. oz./A (0.125 lb. ai/A) per year.
- **DO NOT** apply more than one (1) application per acre per year, except as indicated below for Reduced Rate Control for Small Annual Grasses.
- For Reduced Rate Control for Small Annual Grasses: **DO NOT** exceed two 4 fl. oz./A (0.0625 lb. ai/A) applications per year. **DO NOT** make repeat applications less than 14-days apart.
- **DO NOT** use on vegetable crops being grown for seed production unless specific use directions are provided in this table.

**Berry Low Growing** (Crop Subgroup 13-07G; except Cranberry and Strawberry)  
**including:** Bearberry, Bilberry, Blueberry (lowbush), Cloudberry, Lingonberry, Muntries, Partridgeberry

See separate Crop Specific Use Instructions on this label for instructions for use on Cranberry and Strawberry.

Minimum Time from Application to Harvest (PHI)	Use Rates Per Acre	Adjuvant Rates Per Acre	Specific Use Instructions
45 days	4 - 8 fl. oz. (0.0625 - 0.125 lb. ai)	Non-ionic Surfactant (NIS) at 0.25% v/v	For repeat applications, make on a minimum of a 14-day interval.

**Restrictions**

- **DO NOT** apply more than 8 fl. oz./A (0.125 lb. ai) in a single application.
- **DO NOT** apply more than 32 fl. oz. (0.5 lb. ai) per acre per year.
- **DO NOT** exceed four applications per acre per year.
- **DO NOT** make repeat applications less than 14-days apart.

**Brassica Head and Stem Vegetables** (Crop Group 5-16)  
**including:** Broccoli, Brussels sprouts, Cabbage, Cabbage (napa, Chinese), Cauliflower, Cultivars, varieties and/or hybrids of these commodities

Minimum Time from Application to Harvest (PHI)	Use Rates Per Acre	Adjuvant Rates Per Acre	Specific Use Instructions
30 days	6 - 8 fl. oz. (0.094 - 0.125 lb. ai)	Non-ionic Surfactant (NIS) at 0.25% v/v  or  1% v/v Crop Oil Concentrate in the finished spray volume	For repeat applications, make on a minimum of a 14-day interval.

**Restrictions**

- **DO NOT** apply more than 8 fl. oz./A (0.125 lb. ai/A) in a single application.
- **DO NOT** apply more than 32 fl. oz./A (0.50 lb. ai/A) per year.
- **DO NOT** exceed four applications per acre per year.
- **DO NOT** make repeat applications less than 14-days apart.
- **DO NOT** use on vegetable crops being grown for seed production unless specific use directions are provided in this table.

**Brassica Leafy Greens** (Crop Subgroup 4-16B; except Radish Leaves, and Watercress)

**including:** Arugula, Broccoli (Chinese), Broccoli raab, Cabbage (Abyssinian), Cabbage (bok choy, Chinese), Cabbage (seakale), Collards, Cress (garden & upland), Hanover salad, Kale, Maca (leaves), Mizuna, Mustard greens, Rape greens, Shepherd's purse, Turnip greens, Wild Rocket, Cultivars, varieties and hybrids of these commodities

See separate Crop Specific Use Instructions on this label for instructions for use on Radish Leaves and Watercress.

Minimum Time from Application to Harvest (PHI)	Use Rates Per Acre	Adjuvant Rates Per Acre	Specific Use Instructions
14 days	6 - 8 fl. oz. (0.094 -0.125 lb. ai)	Non-ionic Surfactant (NIS) at 0.25% v/v  or 1% v/v Crop Oil Concentrate in the finished spray volume	For repeat applications, make on a minimum of a 14-day interval.

**Restrictions**

- **DO NOT** apply more than 8 fl. oz./A (0.125 lb. ai/A) in a single application.
- **DO NOT** apply more than 32 fl. oz./A (0.50 lb. ai/A) per year.
- **DO NOT** exceed four applications per acre per year.
- **DO NOT** make repeat applications less than 14-days apart.
- **DO NOT** use on vegetable crops being grown for seed production unless specific use directions are provided in this table.

**Bushberry** (Crop Subgroup 13-07B)

**including:** Aronia berry, Blueberry (highbush), Chilean guava, Cranberry (highbush), Currant (black, buffalo, native, red), Elderberry, European barberry, Gooseberry, Honeysuckle (edible), Huckleberry, Jostaberry, Juneberry, Saskatoon berry, Salal, Sea buckthorn, Cultivars, varieties and/or hybrids of these commodities

Minimum Time from Application to Harvest (PHI)	Use Rates Per Acre	Adjuvant Rates Per Acre	Specific Use Instructions
14 days	6 - 8 fl. oz. (0.094 -0.125 lb. ai)	Non-ionic Surfactant (NIS) at 0.25% v/v	For repeat applications, make on a minimum of a 14-day interval.

**Restrictions**

- **DO NOT** apply more than 8 fl. oz./A (0.125 lb. ai/A) in a single application.
- **DO NOT** apply more than 32 fl. oz./A (0.50 lb. ai/A) per year.
- **DO NOT** exceed four applications per acre per year.
- **DO NOT** make repeat applications less than 14-days apart.

<b>Caneberry</b> (Subgroup 13-07A) <b>including:</b> Blackberry, Loganberry, Raspberry (black, red, wild), Cultivars, varieties and/or hybrids of these commodities			
Minimum Time from Application to Harvest (PHI)	Use Rates Per Acre	Adjuvant Rates Per Acre	Specific Use Instructions
7 days	6 – 8 fl. oz. (0.094 -0.125 lb. ai)	Non-ionic Surfactant (NIS) at 0.25% v/v	For repeat applications, make on a minimum of a 14-day interval.
<b>Restrictions</b>			
<ul style="list-style-type: none"> <li>• <b>DO NOT</b> apply more than 8 fl. oz./A (0.125 lb. ai/A) in a single application.</li> <li>• <b>DO NOT</b> apply more than 32 fl. oz./A (0.50 lb. ai/A) per year.</li> <li>• <b>DO NOT</b> exceed four applications per acre per year.</li> <li>• <b>DO NOT</b> make repeat applications less than 14-days apart.</li> </ul>			

<b>Canola</b> (Crop Subgroup 20A; except Flax Seed, Mustard Seed and Sesame Seed) <b>including:</b> Borage, Canola, Crambe, Cuphea, Echium, Gold of Pleasure (Camelina), Hare's ear mustard, Lesquerella, Lunaria, Meadowfoam, Milkweed, Oil Radish, Poppy seed, Rapeseed (canola), Sweet Rocket			
<b>[Not for use in California]</b>			
See separate Crop Specific Use Instructions on this label for instructions for use on Flax Seed, Mustard Seed and Sesame Seed.			
Minimum Time from Application to Harvest (PHI)	Use Rates Per Acre	Adjuvant Rates Per Acre	Specific Use Instructions
70 days	4 - 6 fl. oz (0.0625 - 0.094 lb. ai)	Non-ionic Surfactant (NIS) at 0.25% v/v  or 1% v/v Crop Oil Concentrate in the finished spray volume	Crop injury may occur when this product is applied during the bloom period.  For reduced rate directions for the control of small annual grasses in Canola, refer to Table 5.
<b>Restrictions</b>			
<ul style="list-style-type: none"> <li>• <b>DO NOT</b> apply more than 6 fl. oz./A (0.094 lb. ai/A) in a single application.</li> <li>• <b>DO NOT</b> exceed (1) one application per acre per year.</li> <li>• <b>DO NOT</b> exceed 6 fl. oz./A (0.094 lb. ai/A) per year.</li> <li>• <b>DO NOT</b> apply after crop has begun bolting.</li> </ul>			



<b>Clover (For use on clover grown in Idaho, Oregon, and Washington only)</b>			
<b>Minimum Time from Application to Harvest (PHI)</b>	<b>Use Rates Per Acre</b>	<b>Adjuvant Rates Per Acre</b>	<b>Specific Use Instructions</b>
15 days before grazing, feeding, or harvesting (cutting) for forage or hay	6 - 16 fl. oz. (0.094 - 0.25 lb. ai)	Non-ionic Surfactant (NIS) at 0.25% v/v  or 1% v/v Crop Oil Concentrate in the finished spray volume	For repeat applications, make on a minimum of a 14-day interval.
<b>Restrictions</b>			
<ul style="list-style-type: none"> <li>• <b>DO NOT</b> apply more than 16 fl. oz./A (0.25 lb. ai/A) in a single application.</li> <li>• <b>DO NOT</b> exceed 16 fl. oz./A (0.25 lb. ai/A) per year.</li> <li>• <b>DO NOT</b> exceed two 6 - 8 fl. oz./A (0.094 - 0.125 lb. ai/A) applications per year or one (1) 8 - 16 fl. oz./A (0.125 - 0.25 lb. ai/A) application per year.</li> <li>• <b>DO NOT</b> make repeat applications less than 14-days apart.</li> </ul>			

<b>Corn, Field</b>			
For burndown of existing stand of glyphosate resistant field corn or volunteer glyphosate resistant field corn prior to replanting field corn.			
<b>Minimum Time from Application to Harvest (PHI)</b>	<b>Use Rates Per Acre</b>	<b>Adjuvant Rates Per Acre</b>	<b>Specific Use Instructions</b>
90 days	3 fl. oz. (0.047 lb. ai)	Non-ionic Surfactant (NIS) at 0.25% v/v  or Crop oil concentrate or Methylated Seed Oil at 1% v/v	To control the existing stand, replant no sooner than 6 days after application.  See further information in the "DIRECTIONS FOR USE IN GLYPHOSATE RESISTANT FIELD CORN (BURNDOWN)" section of this label.
<b>Restrictions</b>			
<ul style="list-style-type: none"> <li>• <b>DO NOT</b> apply more than 3 fl. oz./A (0.047 lb. ai/A) in a single application.</li> <li>• <b>DO NOT</b> make more than one (1) application per year.</li> <li>• <b>DO NOT</b> exceed 3 fl. oz./A (0.047 lb. ai/A) per year.</li> </ul>			

<b>Cotton</b> including: cotton grown for seed			
<b>Minimum Time from Application to Harvest (PHI)</b>	<b>Use Rates Per Acre</b>	<b>Adjuvant Rates Per Acre</b>	<b>Specific Use Instructions</b>
60 days	6 - 16 fl. oz. (0.094 - 0.25 lb. ai)	Non-ionic Surfactant (NIS) at 0.25% v/v or 1 qt. Crop Oil Concentrate or methylated Seed Oil by ground or 1% v/v (but not less than 1 pt./A) by air	1 to 2 qts./A of liquid fertilizer (10-34-0, 28% N or 32% N), or an equivalent amount (2.5 to 4.0 lbs./A) of spray grade ammonium sulfate (AMS) may be added to AGH19012 applications, in addition to the specified rate of crop oil concentrate.  The addition of Ammonium Sulfate (AMS) has shown improved grass control for difficult to control species including: quackgrass, red rice, rhizome johnsongrass, volunteer cereals, volunteer corn, and wild oats.  For repeat applications, make on a minimum of a 14-day interval.
<b>Restrictions</b>			
<ul style="list-style-type: none"> <li>• <b>DO NOT</b> apply more than 16 fl. oz./A (0.25 lb. ai/A) in a single application.</li> <li>• <b>DO NOT</b> apply more than 32 fl. oz./A (0.50 lb. ai/A) per year.</li> <li>• <b>DO NOT</b> exceed four 6 - 8 fl. oz./A (0.094 - 0.125 lb. ai/A) applications per year, three 8 - 10 fl. oz./A (0.125 - 0.156 lb. ai/A) applications per year or two 10 - 16 fl. oz./A (0.156 - 0.25 lb. ai/A) applications per year.</li> <li>• <b>DO NOT</b> make repeat applications less than 14-days apart.</li> <li>• <b>DO NOT</b> graze treated fields or feed treated forage or hay to livestock.</li> </ul>			

<b>Cranberry</b>			
<b>Minimum Time from Application to Harvest (PHI)</b>	<b>Use Rates Per Acre</b>	<b>Adjuvant Rates Per Acre</b>	<b>Specific Use Instructions</b>
30 days	6 - 8 fl. oz. (0.094 - 0.125 lb. ai)	Non-ionic Surfactant (NIS) at 0.25% v/v or 1% v/v Crop Oil Concentrate in the finished spray volume	For repeat applications, make on a minimum of a 14-day interval.
<b>Restrictions</b>			
<ul style="list-style-type: none"> <li>• <b>DO NOT</b> apply more than 8 fl. oz./A (0.125 lb. ai/A) in a single application.</li> <li>• <b>DO NOT</b> apply more than 32 fl. oz./A (0.50 lb. ai/A) per year.</li> <li>• <b>DO NOT</b> exceed four applications per acre per year.</li> <li>• <b>DO NOT</b> make repeat applications less than 14-days apart.</li> <li>• <b>DO NOT</b> apply between the "hook" stage and full fruit set.</li> </ul>			

## Cucurbits

**Subgroup 9A including:** Citron melon, Honeydew melon, Muskmelon (all), Watermelon, Cantaloupe (all)

**Subgroup 9B including:** Chayote (fruit), Chinese waxgourd (Chinese preserving melon), Cucumber, Edible Gourd, Gherkin, Momordica spp. (includes balsam apple, balsam pear, bittermelon, Chinese cucumber), Pumpkin, Squash (all)

Minimum Time from Application to Harvest (PHI)	Use Rates Per Acre	Adjuvant Rates Per Acre	Specific Use Instructions
14 days	6 – 8 fl. oz. (0.094 - 0.125 lb. ai)	Non-ionic Surfactant (NIS) at 0.25% v/v  or 1% v/v Crop Oil Concentrate in the finished spray volume	For repeat applications, make on a minimum of a 14-day interval.
<b>Restrictions</b>			
<ul style="list-style-type: none"> <li>• <b>DO NOT</b> apply more than 8 fl. oz./A (0.125 lb. ai/A) in a single application.</li> <li>• <b>DO NOT</b> apply more than 32 fl. oz./A (0.50 lb. ai/A) per year.</li> <li>• <b>DO NOT</b> exceed four applications per acre per year.</li> <li>• <b>DO NOT</b> make repeat applications less than 14-days apart.</li> <li>• <b>DO NOT</b> use on vegetable crops being grown for seed production unless specific use directions are provided in this table.</li> </ul>			

**Fallow Land** (and other nonproducing agricultural areas)

**Conifer Trees**

**Non-Crop or Non-Planted Areas**

Minimum Time from Application to Harvest (PHI)	Use Rates Per Acre	Adjuvant Rates Per Acre	Specific Use Instructions
Not applicable	6-16 fl. oz. (0.094 - 0.25 lb. ai)	Non-ionic Surfactant (NIS) at 0.25% v/v  or Crop Oil Concentrate or Methylated Seed Oil at 1 qt./A or 1% v/v	See the "FALLOW LAND", "CONIFER TREES", and "NON-CROP or NON-PLANTED AREAS" sections of this label for further information.  For repeat applications, make on a minimum of a 14-day interval.
<b>Restrictions</b>			
<ul style="list-style-type: none"> <li>• <b>DO NOT</b> apply more than 16 fl. oz./A (0.25 lb. ai/A) in a single application.</li> <li>• <b>DO NOT</b> apply more than 32 fl. oz./A (0.50 lb. ai/A) per year.</li> <li>• <b>DO NOT</b> exceed four 6 - 8 fl. oz./A (0.094 - 0.125 lb. ai/A) applications per year, three 8 - 10 fl. oz./A (0.125 - 0.156 lb. ai/A) applications per year or two 10 - 16 fl. oz./A (0.156 - 0.25 lb. ai/A) applications per year.</li> <li>• <b>DO NOT</b> make repeat applications less than 14-days apart.</li> <li>• <b>DO NOT</b> plant any crop for 30 days following application unless clethodim is registered for use on that crop.</li> </ul>			

**Flax**  
[Not for use in California]

Minimum Time from Application to Harvest (PHI)	Use Rates Per Acre	Adjuvant Rates Per Acre	Specific Use Instructions
60 days	6 – 8 fl. oz. (0.094 - 0.125 lb. ai)	Non-ionic Surfactant (NIS) at 0.25% v/v or 1% v/v Crop Oil Concentrate in the finished spray volume	Make application prior to bloom. If applied during bloom, crop injury could occur.  For reduced rate directions for the control of small annual grasses in Flax, refer to Table 5.  For repeat applications, make on a minimum of a 14-day interval.

**Restrictions**

- **DO NOT** apply more than 8 fl. oz./A (0.125 lb. ai/A) in a single application.
- **DO NOT** apply more than 16 fl. oz./A (0.25 lb. ai/A) per year.
- **DO NOT** exceed two applications per acre per year, except as indicated below for Reduced Rate Control for Small Annual Grasses.
- For Reduced Rate Control for Small Annual Grasses: **DO NOT** exceed four applications at 4 fl. oz./A (0.0625 lb. ai/A) per year or three applications at 5 fl. oz./A (0.078 lb. ai/A) per year.
- **DO NOT** make repeat applications less than 14-days apart.

**Fruiting Vegetables** (Crop Group 8-10; except Okra and Tomato)

**including:** Eggplant, Groundcherry, Pepino, Peppers (all), Tomatillo

See separate Crop Specific Use Instructions on this label for instructions for use on Okra and Tomato.

Minimum Time from Application to Harvest (PHI)	Use Rates Per Acre	Adjuvant Rates Per Acre	Specific Use Instructions
20 days	6 – 8 fl. oz. (0.094 - 0.125 lb. ai)	Non-ionic Surfactant (NIS) at 0.25% v/v or 1% v/v Crop Oil Concentrate in the finished spray volume	For repeat applications, make on a minimum of a 14-day interval.

**Restrictions**

- **DO NOT** apply more than 8 fl. oz./A (0.125 lb. ai/A) in a single application.
- **DO NOT** apply more than 32 fl. oz./A (0.50 lb. ai/A) per year.
- **DO NOT** exceed four applications per acre per year.
- **DO NOT** make repeat applications less than 14-days apart.
- **DO NOT** use on vegetable crops being grown for seed production unless specific use directions are provided in this table.

**Herbs** (Crop Subgroup 19A)

**including:** 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, Savory (Summer and Winter), Sweet Bay, Tansy, Tarragon, Thyme, Wintergreen, Woodruff, Wormwood

Minimum Time from Application to Harvest (PHI)	Use Rates Per Acre	Adjuvant Rates Per Acre	Specific Use Instructions
14 days	6 – 8 fl. oz. (0.094 - 0.125 lb. ai)	Non-ionic Surfactant (NIS) at 0.25% v/v or 1% v/v Crop Oil Concentrate in the finished spray volume	AGH19012 has not been tested on all herbs, and herb varieties. It is the responsibility of the user to test AGH19012 on a small portion of the crop to be treated before treating the entire field. Crop sensitivity must be verified to AGH19012 on a small area of the herb crop, at the desired AGH19012 rate and with the same adjuvant rate that will be used on the herb field. If no crop response is evident seven (7) days after treatment, AGH19012 may be used on the entire field at the rate tested and with the same crop oil used in the sensitivity test.  For repeat applications, make on a minimum of a 14-day interval.
<b>Restrictions</b>			
<ul style="list-style-type: none"> <li>• <b>DO NOT</b> apply more than 8 fl. oz./A (0.125 lb. ai/A) in a single application.</li> <li>• <b>DO NOT</b> apply more than 32 fl. oz./A (0.50 lb. ai/A) per year.</li> <li>• <b>DO NOT</b> exceed four applications per acre per year.</li> <li>• <b>DO NOT</b> make repeat applications less than 14-days apart.</li> <li>• <b>DO NOT</b> use on vegetable crops being grown for seed production unless specific use directions are provided in this table.</li> </ul>			

**Hops**

Minimum Time from Application to Harvest (PHI)	Use Rates Per Acre	Adjuvant Rates Per Acre	Specific Use Instructions
21 days	6 – 8 fl. oz. (0.094 - 0.125 lb. ai)	Non-ionic Surfactant (NIS) at 0.25% v/v or 1% v/v Crop Oil Concentrate in the finished spray volume	For repeat applications, make on a minimum of a 14-day interval.
<b>Restrictions</b>			
<ul style="list-style-type: none"> <li>• <b>DO NOT</b> apply more than 8 fl. oz./A (0.125 lb. ai/A) in a single application.</li> <li>• <b>DO NOT</b> apply more than 32 fl. oz./A (0.50 lb. ai/A) per year.</li> <li>• <b>DO NOT</b> exceed four applications per acre per year.</li> <li>• <b>DO NOT</b> make repeat applications less than 14-days apart.</li> </ul>			

**Leafy Petiole Vegetables** (Crop Subgroup 22B)

**including:** Cardoon, Celery, Celery (Chinese ), Fuki[\*], Rhubarb, Udo[\*], Zuiki[\*], Cultivars, varieties, and/or hybrids of these commodities

**[\*Not for use in California]**

Minimum Time from Application to Harvest (PHI)	Use Rates Per Acre	Adjuvant Rates Per Acre	Specific Use Instructions
30 days	6 – 8 fl. oz. (0.094 - 0.125 lb. ai)	Non-ionic Surfactant (NIS) at 0.25% v/v or 1% v/v Crop Oil Concentrate in the finished spray volume	For repeat applications, make on a minimum of a 14-day interval.

**Restrictions**

- **DO NOT** apply more than 8 fl. oz./A (0.125 lb. ai/A) in a single application.
- **DO NOT** apply more than 32 fl. oz./A (0.50 lb. ai/A) per year.
- **DO NOT** exceed four applications per acre per year.
- **DO NOT** make repeat applications less than 14-days apart.
- **DO NOT** use on vegetable crops being grown for seed production unless specific use directions are provided in this table.

**Leafy Greens** (Crop Subgroup 4-16A)

**including:** Amaranth (Chinese, Leafy), Blackjack[\*], Cat's whiskers[\*], Cham-chwi[\*], Cham-na-mul[\*], Chervil (fresh leaves), Chipilin[\*], Chrysanthemum (garland), Cilantro (fresh leaves)[\*], Corn salad, Cosmos[\*], Dandelion (leaves), Dang-gwi (leaves)[\*], Dillweed[\*], Dock, Dol-nam-mul[\*], Ebolo[\*], Endive, Escarole, Fameflower[\*], Feather cockscomb[\*], Good King Henry[\*], Huauzontle[\*], Indian aster[\*], Jute (leaves)[\*], Lettuce (bitter, head, leaf), Orach, Parsley (fresh leaves), Plantain (Buckhorn)[\*], Primrose (English)[\*], Purslane (garden, Winter), Radicchio, Spinach, Spinach (malabar, New Zealand), Tanier[\*], Swiss chard[\*], Violet[\*], (Chinese leaves), Cultivars, varieties, and/or hybrids of these commodities

**[\*Not for use in California]**

Minimum Time from Application to Harvest (PHI)	Use Rates Per Acre	Adjuvant Rates Per Acre	Specific Use Instructions
14 days	6 – 8 fl. oz. (0.094 - 0.125 lb. ai)	Non-ionic Surfactant (NIS) at 0.25% v/v or 1% v/v Crop Oil Concentrate in the finished spray volume	For repeat applications, make on a minimum of a 14-day interval.

**Restrictions**

- **DO NOT** apply more than 8 fl. oz./A (0.125 lb. ai/A) in a single application.
- **DO NOT** apply more than 32 fl. oz./A (0.50 lb. ai/A) per year.
- **DO NOT** exceed four applications per acre per year.
- **DO NOT** make repeat applications less than 14-days apart.
- **DO NOT** use on vegetable crops being grown for seed production unless specific use directions are provided in this table.

**Legume Vegetables, Edible Podded** (Crop Subgroup 6A)

including: **Bean (*Phaseolus spp.*)**: Runner bean, Snap bean, Wax bean; **Bean (*Vigna spp.*)**: Asparagus bean, Chinese longbean, Moth bean, Yardlong bean; **Pea (*Pisum spp.*)**: Dwarf pea, Edible-pod pea, Snow pea, Sugar snap pea; **Jackbean; Pigeon pea; Soybean** (immature seed), **Sword bean**

Minimum Time from Application to Harvest (PHI)	Use Rates Per Acre	Adjuvant Rates Per Acre	Specific Use Instructions
21 days	6 – 8 fl. oz. (0.094 - 0.125 lb. ai)	Non-ionic Surfactant (NIS) at 0.25% v/v or 1 qt. Crop Oil Concentrate by ground or 1% v/v (but not less than 1 pt./A) by air	For peas, apply before bloom, but no later than 21 days before harvest. Application of this product during the boom period could result in severe crop injury, including loss of yield and delayed maturing.  For reduced rate directions for the control of small annual grasses, refer to Table 5.  1 to 2 qts./A of liquid fertilizer (10-34-0, 28% N or 32% N), or an equivalent amount (2.5 to 4.0 lbs./A) of spray grade ammonium sulfate (AMS) may be added to AGH19012 applications, in addition to the specified rate of crop oil.  The addition of Ammonium Sulfate (AMS) has shown improved grass control for difficult to control species including: quackgrass, rhizome johnsongrass, red rice, wild oats, volunteer cereals and volunteer corn.

**Restrictions**

- **DO NOT** apply more than 8 fl. oz./A (0.125 lb. ai/A) in a single application.
- **DO NOT** apply more than 8 fl. oz./A (0.125 lb. ai/A) per year.
- **DO NOT** apply more than one (1) application per acre per year, except as indicated below for Reduced Rate Control for Small Annual Grasses.
- For Reduced Rate Control for Small Annual Grasses: **DO NOT** exceed two 4 fl. oz./A (0.0625 lb. ai/A) applications per year. **DO NOT** make repeat applications less than 14-days apart.
- **DO NOT** use on vegetable crops being grown for seed production unless specific use directions are provided in this table.

**Mustard Seed**

[Not for use in California]

Minimum Time from Application to Harvest (PHI)	Use Rates Per Acre	Adjuvant Rates Per Acre	Specific Use Instructions
75 days	4 - 6 fl. oz. (0.0625 - 0.094 lb. ai)	Non-ionic Surfactant (NIS) at 0.25% v/v or 1% v/v Crop Oil Concentrate in the finished spray volume	For reduced rate directions for the control of small annual grasses in Mustard Seed, refer to Table 5.  For repeat applications, make on a minimum of a 14-day interval.

**Restrictions**

- **DO NOT** apply more than 6 fl. oz./A (0.094 lb. ai/A) in a single application.
- **DO NOT** apply more than 12 fl. oz./A (0.188 lb. ai/A) per year.
- **DO NOT** exceed two 5 - 6 fl. oz./A (0.078 - 0.094 lb. ai/A) applications per year, or three 4 fl. oz./A (0.0625 lb. ai/A) applications per year.
- **DO NOT** make repeat applications less than 14-days apart.
- **DO NOT** apply after crop has begun bolting. If applied during the bloom period, crop injury could occur.

Okra			
Minimum Time from Application to Harvest (PHI)	Use Rates Per Acre	Adjuvant Rates Per Acre	Specific Use Instructions
3 days	6 – 8 fl. oz. (0.094 - 0.125 lb. ai)	Non-ionic Surfactant (NIS) at 0.25% v/v	For repeat applications, make on a minimum of a 14-day interval.
Restrictions			
<ul style="list-style-type: none"> <li>• <b>DO NOT</b> apply more than 8 fl. oz./A (0.125 lb. ai/A) in a single application.</li> <li>• <b>DO NOT</b> apply more than 32 fl. oz./A (0.50 lb. ai/A) per year.</li> <li>• <b>DO NOT</b> exceed four applications per acre per year.</li> <li>• <b>DO NOT</b> make repeat applications less than 14-days apart.</li> <li>• <b>DO NOT</b> use on vegetable crops being grown for seed production unless specific use directions are provided in this table.</li> </ul>			

Onions, Dry Bulb Only (Crop Subgroup 3-07A) including: Daylily (bulb), Fritillaria (bulb), Garlic (bulb, great-headed bulb, serpent bulb), Lily (bulb), Onion (bulb, Chinese bulb, pearl, potato bulb), Shallot (bulb), Cultivars, varieties and/or hybrids of these commodities			
Minimum Time from Application to Harvest (PHI)	Use Rates Per Acre	Adjuvant Rates Per Acre	Specific Use Instructions
45 days	6 - 16 fl. oz. (0.094 - 0.25 lb. ai)	Non-ionic Surfactant (NIS) at 0.25% v/v  or 1% v/v Crop Oil Concentrate in the finished spray volume	Minimum 20 gals/A spray volume by ground in entire U.S.  Minimum 20 gals/A spray volume by air in California.  States Other than California: Make applications by air to onions, garlic or shallots in a minimum of 10 gals/A.  For repeat applications, make on a minimum of a 14-day interval.  For chemigation refer to the instructions found under the section titled Chemigation – ONIONS (DRY BULBS AND GREEN) AND GARLIC ONLY.
Restrictions			
<ul style="list-style-type: none"> <li>• <b>DO NOT</b> use on vegetable crops being grown for seed production unless specific use directions are provided in this table.</li> <li>• If AGH19012 is applied as a spot treatment to onion or garlic, <b>DO NOT</b> exceed the maximum rate allowed on a “per acre” basis.</li> <li>• In California, <b>DO NOT</b> apply AGH19012 to garlic or onion until the crop has at least two full leaves. Use a 14-day spray interval between the application of AGH19012 and liquid nitrogen or other herbicide applications. Injury to crop may occur when shorter intervals are observed.</li> <li>• For ground application to onion &amp; shallot: <ul style="list-style-type: none"> <li>○ <b>DO NOT</b> apply more than 16 fl. oz./A (0.25 lb. ai/A) per application.</li> <li>○ <b>DO NOT</b> exceed four 6 - 8 fl. oz./A (0.094 - 0.125 lb. ai/A) applications per year, three 8 - 10 fl. oz./A (0.125 - 0.156 lb. ai/A) applications per year or two 10 - 16 fl. oz./A (0.156 - 0.25 lb. ai/A) applications per year.</li> <li>○ <b>DO NOT</b> apply more than 32 fl. oz./A (0.50 lb. ai/A) per year.</li> <li>○ <b>DO NOT</b> make repeat applications less than 14-days apart.</li> </ul> </li> <li>• For ground application to garlic: <ul style="list-style-type: none"> <li>○ <b>DO NOT</b> more than 8 fl. oz./A (0.125 lb. ai/A) per application.</li> <li>○ <b>DO NOT</b> make more than 2 applications per acre per year.</li> <li>○ <b>DO NOT</b> apply more than 16 fl. oz./A (0.25 lb. ai/A) per year.</li> <li>○ <b>DO NOT</b> make repeat applications less than 14-days apart.</li> </ul> </li> <li>• For air application to onion, garlic &amp; shallots: <ul style="list-style-type: none"> <li>○ <b>DO NOT</b> apply more than 8 fl. oz./A (0.125 lb. ai/A) per application.</li> <li>○ <b>DO NOT</b> exceed 16 fl. oz./A (0.25 lb. ai/A) per year.</li> <li>○ <b>DO NOT</b> make more than 2 applications per acre per year.</li> <li>○ <b>DO NOT</b> make repeat applications less than 14-days apart.</li> </ul> </li> </ul>			



**Onion, Green** (Crop Subgroup 3-07B)  
**including:** Chive (fresh leaves), Chive (Chinese, fresh leaves), Elegans Hosta, Fritillaria (leaves), Kurrat, Lady's Leek, Leek, Leek (wild), Onion (Beltsville bunching, fresh, green, macrostem, tree tops, Onion, welsh tops), Shallot (fresh leaves) Cultivars, varieties, and/or hybrids of these commodities

Minimum Time from Application to Harvest (PHI)	Use Rates Per Acre	Adjuvant Rates Per Acre	Specific Use Instructions
14 days	6 – 8 fl. oz. (0.094 - 0.125 lb. ai)	Non-ionic Surfactant (NIS) at 0.25% v/v or 1% v/v Crop Oil Concentrate in the finished spray volume	Minimum 20 gals/A spray volume by ground in entire U.S. Minimum 20 gals/A spray volume by air in California. States Other than California: Make applications by air to onions in a minimum of 10 gals/A. For repeat applications, make on a minimum of a 14-day interval.

**Restrictions**

- **DO NOT** apply more than 8 fl. oz./A (0.125 lb. ai/A) in a single application.
- **DO NOT** apply more than 32 fl. oz./A (0.50 lb. ai/A) per year.
- **DO NOT** exceed four applications per acre per year. In California for air applications to onion, **DO NOT** exceed two applications per year.
- **DO NOT** make repeat applications less than 14-days apart.
- If AGH19012 is applied as a spot treatment to onions, **DO NOT** exceed the maximum rate allowed on a “per acre” basis.
- In California, **DO NOT** apply AGH19012 to onions until the crop has at least two full leaves. Use a 14-day spray interval between the application of AGH19012 and liquid nitrogen or other herbicide applications. Injury to crop may occur when shorter intervals are observed.
- **DO NOT** use on vegetable crops being grown for seed production unless specific use directions are provided in this table.

**Ornamentals**

Minimum Time from Application to Harvest(PHI)	Use Rates Per Acre	Adjuvant Rates Per Acre	Specific Use Instructions
Not Applicable	6 - 16 fl. oz. (0.094 - 0.25 lb. ai/A)	Add a non-ionic surfactant containing at least 80% active ingredient at the rate of 1 pt. per 50 gallons (0.25% v/v).  Use of crop oil concentrate is not advised since it may injure flowers and foliage.	See the ORNAMENTALS section of this label for further information.  For repeat applications, make on a minimum of a 14-day interval.

**Restrictions**

- **DO NOT** apply more than 16 fl. oz./A (0.25 lb. ai/A) in a single application.
- **DO NOT** apply more than 32 fl. oz./A (0.50 lb. ai/A) per year.
- **DO NOT** exceed four 6 - 8 fl. oz./A (0.094 - 0.125 lb. ai/A) applications per year, three 8 - 10 fl. oz./A (0.125 - 0.156 lb. ai/A) applications per year or two 10 - 16 fl. oz./A (0.156 - 0.25 lb. ai/A) applications per year.
- **DO NOT** make repeat applications less than 14-days apart.
- Must not be applied to non-bearing food crops which are grown for root stock.
- Sugar maples cannot be tapped for syrup within one year of AGH19012 application.

## Non-bearing Food Crops

Minimum Time from Application to Harvest (PHI)	Use Rates Per Acre	Adjuvant Rates Per Acre	Specific Use Instructions
Not Applicable	6 - 8 fl. oz. (0.094 - 0.125 lb. ai)	Add a non-ionic surfactant containing at least 80% active ingredient at the rate of 1 pt. per 50 gallons (0.25% v/v)  Use of crop oil concentrate is not advised since it may injure flowers and foliage.	See the NON-BEARING FOOD CROPS section of this label for further information.  For repeat applications, make on a minimum of a 14-day interval.

### Restrictions

- **DO NOT** make aerial applications to tree fruits and tree nuts.
- **DO NOT** apply more than 8 fl. oz./A (0.125 lb. ai/A) in a single application.
- **DO NOT** exceed four applications per acre per year.
- **DO NOT** apply more than 32 fl. oz./A (0.50 lb. ai/A) per year.
- **DO NOT** make repeat applications less than 14-days apart.
- Must not be applied to non-bearing food crops which are grown for root stock.
- Sugar Maples cannot be tapped for syrup within one year of application.
- If AGH19012 is applied as a spot treatment to non-bearing food crops **DO NOT** exceed the maximum rate allowed on a “per acre” basis.

## Peas, Dry Shelled (Crop Subgroup 6C)

including: (*Pisum spp.*): Field pea, Pigeon pea

Minimum Time from Application to Harvest (PHI)	Use Rates Per Acre	Adjuvant Rates Per Acre	Specific Use Instructions
30 days	6 - 8 fl. oz (0.094 - 0.125 lb. ai)	Non-ionic Surfactant (NIS) at 0.25% v/v  or  1 qt. Crop Oil Concentrate by ground or 1% v/v (but not less than 1 pt./A) by air	Apply before bloom, but not later than 30 days prior to harvest. Applications of this product to peas during the bloom period could result in severe crop injury, including loss of yield and delayed maturity.  For reduced rate directions for the control of small annual grasses, refer to Table 5.  1 to 2 qts./A of liquid fertilizer (10-34-0, 28% N or 32% N), or an equivalent amount (2.5 to 4.0 lbs./A) of spray grade ammonium sulfate (AMS) may be added to AGH19012 applications, in addition to the specified rate of crop oil.  The addition of Ammonium Sulfate (AMS) has shown improved grass control for difficult to control species including: quackgrass, rhizome johnsongrass, red rice, wild oats, volunteer cereals and volunteer corn.

### Restrictions

- **DO NOT** apply more than 8 fl. oz./A (0.125 lb. ai/A) in a single application.
- **DO NOT** apply more than 8 fl. oz./A (0.125 lb. ai/A) per year.
- **DO NOT** apply more than one (1) application per acre per year, except as indicated below for Reduced Rate Control for Small Annual Grasses.
- For Reduced Rate Control for Small Annual Grasses: **DO NOT** exceed two 4 fl. oz./A (0.0625 lb. ai/A) applications per year. **DO NOT** make repeat applications less than 14-days apart.
- Apply before bloom, but no later than 30 days before harvest.
- **DO NOT** use on vegetable crops being grown for seed production unless specific use directions are provided in this table.

**Peas, Succulent Shelled** (Crop Subgroup 6B)  
including: *Pea (Pisum spp.)*: English pea, Garden pea, Green pea; **Pigeon pea**

Minimum Time from Application to Harvest (PHI)	Use Rates Per Acre	Adjuvant Rates Per Acre	Specific Use Instructions
21 days	6 - 8 fl. oz (0.094 - 0.125 lb. ai)	Non-ionic Surfactant (NIS) at 0.25% v/v  or  1 qt. Crop Oil Concentrate by ground or 1%v/v (but not less than 1 pt./A) by air	Apply before bloom but not later than 21 days prior to harvest. Application of this product during the boom period could result in severe crop injury, including loss of yield and delayed maturing.  For reduced rate directions for the control of small annual grasses, refer to Table 5.  1 to 2 qts./A of liquid fertilizer (10-34-0, 28% N or 32% N), or an equivalent amount (2.5 to 4.0 lbs./A) of spray grade ammonium sulfate (AMS) may be added to AGH19012 applications, in addition to the specified rate of crop oil.  The addition of Ammonium Sulfate (AMS) has shown improved grass control for difficult to control species including: quackgrass, rhizome johnsongrass, red rice, wild oats, volunteer cereals and volunteer corn.

**Restrictions**

- **DO NOT** apply more than 8 fl. oz./A (0.125 lb. ai/A) in a single application.
- **DO NOT** apply more than 8 fl. oz./A (0.125 lb. ai/A) per year.
- **DO NOT** apply more than one (1) application per acre per year, except as indicated below for Reduced Rate Control for Small Annual Grasses.
- For Reduced Rate Control for Small Annual Grasses: **DO NOT** exceed two 4 fl. oz./A (0.0625 lb. ai/A) applications per year. **DO NOT** make repeat applications less than 14-days apart.
- **DO NOT** use on vegetable crops being grown for seed production unless specific use directions are provided in this table.

**Peanut** (including Perennial)

Minimum Time from Application to Harvest (PHI)	Use Rates Per Acre	Adjuvant Rates Per Acre	Specific Use Instructions
40 days	6-16 fl. oz (0.094 - 0.25 lb. ai)	Non-ionic Surfactant (NIS) at 0.25% v/v  or  Crop Oil Concentrate or Methylated Seed Oil at 1 qt./A or 1% v/v	1 to 2 qts./A of liquid fertilizer (10-34-0, 28% N or 32% N), or an equivalent amount (2.5 to 4.0 lbs./A) of spray grade ammonium sulfate (AMS) may be added to AGH19012 applications, in addition to the specified rate of crop oil.  The addition of Ammonium Sulfate (AMS) has shown improved grass control for difficult to control species including: quackgrass, red rice, rhizome johnsongrass, volunteer cereals, volunteer corn, and wild oats.  For repeat applications, make on a minimum of a 14-day interval.  If applying for harvest efficiency see Table 18 "Grass Suppression for Harvest Efficiency in Peanut with AGH19012".

**Restrictions**

- **DO NOT** apply more than 16 fl. oz./A (0.25 lb. ai/A) in a single application.
- **DO NOT** apply more than 32 fl. oz./A (0.50 lb. ai/A) per year.
- **DO NOT** exceed four 6 - 8 fl. oz./A (0.094 - 0.125 lb. ai/A) applications per year, three 8 - 10 fl. oz./A (0.125 - 0.156 lb. ai/A) applications per year or two 10 - 16 fl. oz./A (0.156 - 0.25 lb. ai/A) applications per year.
- **DO NOT** make repeat applications less than 14-days apart.

## Peppermint and Spearmint Tops

Minimum Time from Application to Harvest (PHI)	Use Rates Per Acre	Adjuvant Rates Per Acre	Specific Use Instructions
21 days	6 - 16 fl. oz. (0.094 - 0.25 lb. ai)	Non-ionic Surfactant (NIS) at 0.25% v/v or Crop Oil Concentrate or Methylated Seed Oil at 1 qt./A or 1% v/v	The minimum use rate is 10 fl. oz./A (0.156 lb. ai/A) for weed control.  When applying to Established Peppermint and Spearmint Tops, see Table 3 "Established Alfalfa, Peppermint and Spearmint Tops" for additional application information.  For repeat applications, make on a minimum of a 14-day interval.
<b>Restrictions</b>			
<ul style="list-style-type: none"> <li>• <b>DO NOT</b> apply more than 16 fl. oz./A (0.25 lb. ai/A) in a single application.</li> <li>• <b>DO NOT</b> apply more than 32 fl. oz./A (0.50 lb. ai/A) per year.</li> <li>• <b>DO NOT</b> exceed four 6 - 8 fl. oz./A (0.09 - 0.125 lb. ai/A) applications per year, three 8 - 10 fl. oz./A (0.125 - 0.156 lb. ai/A) applications per year or two 10 - 16 fl. oz./A (0.156 - 0.25 lb. ai/A) applications per year.</li> <li>• <b>DO NOT</b> make repeat applications less than 14-days apart.</li> </ul>			

## Pome Fruit (Crop Group 11-10)

**including:** Apple, Azarole, Crabapple, Loquat, Mayhaw, Medlar, Pear, Pear (Asian), Quince, Quince (Chinese), Quince (Japanese), Tejocote

Minimum Time from Application to Harvest (PHI)	Use Rates Per Acre	Adjuvant Rates Per Acre	Specific Use Instructions
14 days	4 – 8 fl. oz. (0.0625 - 0.125 lb. ai)	Non-ionic Surfactant (NIS) at 0.25% v/v	For repeat applications, make on a minimum of a 14-day interval.
<b>Restrictions</b>			
<ul style="list-style-type: none"> <li>• <b>DO NOT</b> apply more than 8 fl. oz./A (0.125 lb. ai/A) in a single application.</li> <li>• <b>DO NOT</b> apply more than 32 fl. oz./A (0.50 lb. ai/A) per year.</li> <li>• <b>DO NOT</b> exceed four applications per acre per year.</li> <li>• <b>DO NOT</b> make repeat applications less than 14-days apart.</li> <li>• Aerial application to tree fruits is prohibited.</li> </ul>			

## Potato

Minimum Time from Application to Harvest (PHI)	Use Rates Per Acre	Adjuvant Rates Per Acre	Specific Use Instructions
30 days	6 - 16 fl. oz. (0.094 - 0.25 lb. ai)	Non-ionic Surfactant (NIS) at 0.25% v/v or Crop Oil Concentrate or Methylated Seed Oil at 1 qt./A or 1% v/v	1 to 2 qts./A of liquid fertilizer (10-34-0, 28% N or 32% N), or an equivalent amount (2.5 to 4.0 lbs./A) of spray grade ammonium sulfate (AMS) may be added to AGH19012 applications, in addition to the specified rate of crop oil.  The addition of Ammonium Sulfate (AMS) has shown improved grass control for difficult to control species including: quackgrass, rhizome johnsongrass, red rice, wild oats, volunteer cereals and volunteer corn.  For repeat applications, make on a minimum of a 14-day interval.
<b>Restrictions</b>			
<ul style="list-style-type: none"> <li>• <b>DO NOT</b> apply more than 16 fl. oz./A (0.25 lb. ai/A) in a single application.</li> </ul>			

- **DO NOT** apply more than 32 fl. oz./A (0.50 lb. ai/A) per year.
- **DO NOT** exceed four 6 - 8 fl. oz./A (0.09 - 0.125 lb. ai/A) applications per year, three 8 - 10 fl. oz./A (0.125 - 0.156 lb. ai/A) applications per year or two 10 - 16 fl. oz./A (0.156 - 0.25 lb. ai/A) applications per year.
- **DO NOT** make repeat applications less than 14-days apart.
- **DO NOT** use on vegetable crops being grown for seed production unless specific use directions are provided in this table.

### Radish, Radish Leaves

Minimum Time from Application to Harvest (PHI)	Use Rates Per Acre	Adjuvant Rates Per Acre	Specific Use Instructions
15 days	6 – 8 fl. oz. (0.094 - 0.125 lb. ai)	Non-ionic Surfactant (NIS) at 0.25% v/v or 1% v/v Crop Oil Concentrate in the finished spray volume	For repeat applications, make on a minimum of a 14-day interval.

#### Restrictions

- **DO NOT** apply more than 8 fl. oz./A (0.125 lb. ai/A) in a single application.
- **DO NOT** apply more than 16 fl. oz./A (0.25 lb. ai/A) per year.
- **DO NOT** exceed two applications per acre per year.
- **DO NOT** make repeat applications less than 14-days apart.
- **DO NOT** use on vegetable crops being grown for seed production unless specific use directions are provided in this table.

### Root Vegetables (Subgroup 1B; except Sugar Beet and Radish)

**including:** Burdock (edible), Beet (garden), Carrot, Celeriac, Chervil (turnip rooted), Chicory, Ginseng, Horseradish, Parsley (turnip rooted), Parsnip, Radish (Oriental), Rutabaga, Salsify, Salsify (black), Salsify (Spanish), Skirret, Turnip

See separate Crop Specific Use Instructions on this label for instructions for use on Sugar Beet and Radish.

Minimum Time from Application to Harvest (PHI)	Use Rates Per Acre	Adjuvant Rates Per Acre	Specific Use Instructions
30 days	6 – 8 fl. oz. (0.094 - 0.125 lb. ai)	Non-ionic Surfactant (NIS) at 0.25% v/v or 1% v/v Crop Oil Concentrate in the finished spray volume	For repeat applications, make on a minimum of a 14-day interval.

#### Restrictions

- **DO NOT** apply more than 8 fl. oz./A (0.125 lb. ai/A) in a single application.
- **DO NOT** apply more than 32 fl. oz./A (0.50 lb. ai/A) per year.
- **DO NOT** exceed four applications per acre per year.
- **DO NOT** make repeat applications less than 14-days apart.
- **DO NOT** use on vegetable crops being grown for seed production unless specific use directions are provided in this table.

<b>Safflower</b>			
<b>Minimum Time from Application to Harvest (PHI)</b>	<b>Use Rates Per Acre</b>	<b>Adjuvant Rates Per Acre</b>	<b>Specific Use Instructions</b>
70 days	6 – 8 fl. oz. (0.094 - 0.125 lb. ai)	Non-ionic Surfactant (NIS) at 0.25% v/v  or 1% v/v Crop Oil Concentrate in the finished spray volume	For repeat applications, make on a minimum of a 14-day interval.
<b>Restrictions</b>			
<ul style="list-style-type: none"> <li>• <b>DO NOT</b> apply more than 8 fl. oz./A (0.125 lb. ai/A) in a single application.</li> <li>• <b>DO NOT</b> apply more than 32 fl. oz./A (0.50 lb. ai/A) per year.</li> <li>• <b>DO NOT</b> exceed four applications per acre per year.</li> <li>• <b>DO NOT</b> make repeat applications less than 14-days apart.</li> </ul>			

<b>Sesame</b>			
<b>Minimum Time from Application to Harvest (PHI)</b>	<b>Use Rates Per Acre</b>	<b>Adjuvant Rates Per Acre</b>	<b>Specific Use Instructions</b>
14 days	6 – 8 fl. oz. (0.094 - 0.125 lb. ai)	Non-ionic Surfactant (NIS) at 0.25% v/v  or 1% v/v Crop Oil Concentrate in the finished spray volume	For repeat applications, make on a minimum of a 14-day interval.
<b>Restrictions</b>			
<ul style="list-style-type: none"> <li>• <b>DO NOT</b> apply more than 8 fl. oz./A (0.125 lb. ai/A) in a single application.</li> <li>• <b>DO NOT</b> apply more than 32 fl. oz./A (0.50 lb. ai/A) per year.</li> <li>• <b>DO NOT</b> exceed four applications per acre per year.</li> <li>• <b>DO NOT</b> make repeat applications less than 14-days apart.</li> <li>• <b>DO NOT</b> apply during flowering.</li> </ul>			

<b>Soybean</b>			
<b>Minimum Time from Application to Harvest (PHI)</b>	<b>Use Rates Per Acre</b>	<b>Adjuvant Rates Per Acre</b>	<b>Specific Use Instructions</b>
60 days	6 - 16 fl. oz. (0.094 - 0.25 lb. ai)	Non-ionic Surfactant (NIS) at 0.25% v/v or Crop Oil Concentrate or Methylated Seed Oil at 1 qt./A or 1% v/v	For reduced rate directions for the control of small annual grasses, refer to Table 5.  1 to 2 qts./A of liquid fertilizer (10-34-0, 28% N or 32% N), or an equivalent amount (2.5 to 4.0 lbs./A) of spray grade ammonium sulfate (AMS) may be added to AGH19012 applications, in addition to the specified rate of crop oil concentrate.  The addition of Ammonium Sulfate (AMS) has shown improved grass control for difficult to control species including: quackgrass, rhizome johnsongrass, red rice, wild oats, volunteer cereals and volunteer corn.  For repeat applications, make on a minimum of a 14-day interval.
<b>Restrictions</b>			
<ul style="list-style-type: none"> <li>• <b>DO NOT</b> apply more than 16 fl. oz./A (0.25 lb. ai/A) in a single application.</li> <li>• <b>DO NOT</b> apply more than 32 fl. oz./A (0.50 lb. ai/A) per year.</li> <li>• <b>DO NOT</b> exceed four 6 - 8 fl. oz./A (0.094 - 0.125 lb. ai/A) applications per year, three 8 - 10 fl. oz./A (0.125 - 0.156 lb. ai/A) applications per year or two 10 - 16 fl. oz./A (0.156 - 0.25 lb. ai/A) applications per year.</li> <li>• For Reduced Rate Control for Small Annual Grasses: <b>DO NOT</b> exceed four application per acre per year.</li> <li>• <b>DO NOT</b> make repeat applications less than 14-days apart.</li> <li>• <b>DO NOT</b> graze treated fields or feed treated forage or hay to livestock.</li> </ul>			

<b>Stalk and Stem Vegetables <sup>[*]</sup> (Crop Subgroup 22A; except Asparagus)</b>			
<b>including:</b> Agave, Aloe vera, Bamboo shoots, Celtuce, Fennel (Florence, fresh leaves and stalk), Fiddlehead fern (edible), Kale (sea), Kohlrabi, Palm hearts, Prickly pear (pads), Prickly pear (Texas, pads), Cultivars, varieties, and/or hybrids of these commodities  <b>[*Not for use in California]</b>  See separate Crop Specific Use Instructions on this label for instructions for use on Asparagus.			
<b>Minimum Time from Application to Harvest (PHI)</b>	<b>Use Rates Per Acre</b>	<b>Adjuvant Rates Per Acre</b>	<b>Specific Use Instructions</b>
1 day	6 – 8 fl. oz. (0.094 - 0.125 lb. ai)	Non-ionic Surfactant (NIS) at 0.25% v/v or 1% v/v Crop Oil Concentrate in the finished spray volume	For repeat applications, make on a minimum of a 14-day interval.
<b>Restrictions</b>			
<ul style="list-style-type: none"> <li>• <b>DO NOT</b> apply more than 8 fl. oz./A (0.125 lb. ai/A) per application.</li> <li>• <b>DO NOT</b> apply more than 16 fl. oz./A (0.250 lb. ai/A) per year.</li> <li>• <b>DO NOT</b> exceed two applications per acre per year.</li> <li>• <b>DO NOT</b> make repeat applications less than 14-days apart.</li> <li>• <b>DO NOT</b> use on vegetable crops being grown for seed production unless specific use directions are provided in this table.</li> </ul>			

### Stevia, dried leaves

Minimum Time from Application to Harvest (PHI)	Use Rates Per Acre	Adjuvant Rates Per Acre	Specific Use Instructions
14 days	4 - 8 fl. oz. (0.0625 - 0.125 lb. ai)	Non-ionic Surfactant (NIS) at 0.25% v/v	AGH19012 has not been tested on all varieties. It is the responsibility of the user to test AGH19012 on a small portion of the crop to be treated before treating the entire field.  Verify crop safety to AGH19012 on a small area of the crop, at the desired AGH19012 rate and with the same Non-ionic Surfactant (NIS) that will be used on the field. If no crop response is evident 7 days after treatment, AGH19012 may be used on the entire field at the rate tested and with the same NIS used in the crop safety test.  For repeat applications, make on a minimum of a 14-day interval.

#### Restrictions

- **DO NOT** apply more than 8 fl. oz./A (0.125 lb. ai/A) per application.
- **DO NOT** apply more than 32 fl. oz./A (0.50 lb. ai/A) per year.
- **DO NOT** exceed four applications per acre per year.
- **DO NOT** make repeat applications less than 14-days apart.
- **DO NOT** use on vegetable crops being grown for seed production unless specific use directions are provided in this table.

### Stone Fruit (Crop Group 12-12)

**including:** Apricot, Apricot (Japanese), Capulin, Cherry (black, Nanking, sweet, tart), Jujube (Chinese), Nectarine, Peach, Plum (American, beach, Canada, cherry, chickasaw, damson, Japanese, Klamath), Plum Prune, Plumcot, Sloe

Minimum Time from Application to Harvest (PHI)	Use Rates Per Acre	Adjuvant Rates Per Acre	Specific Use Instructions
14 days	4 - 8 fl. oz. (0.0625 - 0.125 lb. ai)	Non-ionic Surfactant (NIS) at 0.25% v/v	For repeat applications, make on a minimum of a 14-day interval.

#### Restrictions

- **DO NOT** apply more than 8 fl. oz./A (0.125 lb. ai/A) per application.
- **DO NOT** apply more than 32 fl. oz./A (0.50 lb. ai/A) per year.
- **DO NOT** exceed four applications per acre per year.
- **DO NOT** make repeat applications less than 14-days apart.
- Aerial application is prohibited for all tree fruits.

### Strawberry

Minimum Time from Application to Harvest (PHI)	Use Rates Per Acre	Adjuvant Rates Per Acre	Specific Use Instructions
4 days	6 – 8 fl. oz. (0.094 - 0.125 lb. ai)	Non-ionic Surfactant (NIS) at 0.25% v/v  or  1% v/v Crop Oil Concentrate in the finished spray volume	For repeat applications, make on a minimum of a 14-day interval.

#### Restrictions

- **DO NOT** apply more than 8 fl. oz./A (0.125 lb.ai/A) in a single application.
- **DO NOT** apply more than 32 fl. oz./A (0.50 lb. ai/A) per year.
- **DO NOT** exceed four applications per acre per year.
- **DO NOT** make repeat applications less than 14-days apart.



## Sugar Beet

Minimum Time from Application to Harvest (PHI)	Use Rates Per Acre	Adjuvant Rates Per Acre	Specific Use Instructions
40 days	6 - 16 fl. oz. (0.094 - 0.25 lb. ai)	Non-ionic Surfactant (NIS) at 0.25% v/v or Crop Oil Concentrate or Methylated Seed Oil at 1 qt./A or 1% v/v	For reduced rate directions for the control of small annual grasses, refer to Table 5.  1 to 2 qts./A of liquid fertilizer (10-34-0, 28% N or 32% N), or an equivalent amount (2.5 to 4.0 lbs./A) of spray grade ammonium sulfate (AMS) may be added to AGH19012 applications, in addition to the specified rate of crop oil concentrate.  The addition of Ammonium Sulfate (AMS) has shown improved grass control for difficult to control species including: quackgrass, rhizome johnsongrass, red rice, wild oats, volunteer cereals and volunteer corn.  For repeat applications, make on a minimum of a 14-day interval.

### Restrictions

- **DO NOT** apply more than 16 fl. oz./A (0.25 lb. ai/A) in a single application.
- **DO NOT** apply more than 32 fl. oz./A (0.50 lb. ai/A) per year.
- **DO NOT** exceed four 6 - 8 fl. oz./A (0.094 - 0.125 lb. ai/A) applications per year, three 8 - 10 fl. oz./A (0.125 - 0.156 lb. ai/A) applications per year or two 10 - 16 fl. oz./A (0.156 - 0.25 lb. ai/A) applications per year.
- For Reduced Rate Control for Small Annual Grasses: **DO NOT** exceed four applications per acre per year.
- **DO NOT** make repeat applications less than 14-days apart.
- **DO NOT** use on vegetable crops being grown for seed production unless specific use directions are provided in this table.

## Sunflower (Crop Subgroup 20B, except safflower)

**including:** Calendula, Castor oil plant, Chinese tallowtree, Euphorbia, Evening primrose, Jojoba, Niger seed, Rose hip, Stokes aster, Sunflower, Tallowood, Tea Oil Plant, Vernonia

See separate Crop Specific Use Instructions on this label for instructions for use on Safflower.

Minimum Time from Application to Harvest (PHI)	Use Rates Per Acre	Adjuvant Rates Per Acre	Specific Use Instructions
70 days	6 - 16 fl. oz. (0.094 - 0.25 lb. ai)	Non-ionic Surfactant (NIS) at 0.25% v/v or Crop Oil Concentrate or Methylated Seed Oil at 1 qt./A or 1% v/v	1 to 2 qts./A of liquid fertilizer (10-34-0, 28% N or 32% N), or an equivalent amount (2.5 to 4.0 lbs./A) of spray grade ammonium sulfate (AMS) may be added to AGH19012 applications, in addition to the specified rate of crop oil concentrate.  The addition of Ammonium Sulfate (AMS) has shown improved grass control for difficult to control species including: quackgrass, rhizome johnsongrass, red rice, wild oats, volunteer cereals and volunteer corn.  Verify crop safety to AGH19012 on a small area of the crop at the desired rate and with the same adjuvant that will be used on the field. If no crop response is evident seven (7) days after treatment, AGH19012 may be used on the entire field at the rate tested and with the same crop oil used in the safety test.  For repeat applications, make on a minimum of a 14-day interval.

### Restrictions

- **DO NOT** apply more than 16 fl. oz./A (0.25 lb. ai/A) in a single application.
- **DO NOT** apply more than 32 fl. oz./A (0.50 lb. ai/A) per year.
- **DO NOT** exceed four 6 - 8 fl. oz./A (0.094 - 0.125 lb. ai/A) applications per year, three 8 - 10 fl. oz./A (0.125 - 0.156 lb. ai/A) applications per year or two 10 - 16 fl. oz./A (0.156 - 0.25 lb. ai/A) applications per year.
- **DO NOT** make repeat applications less than 14-days apart.

## Tomato

Minimum Time from Application to Harvest (PHI)	Use Rates Per Acre	Adjuvant Rates Per Acre	Specific Use Instructions
20 days	6 - 16 fl. oz. (0.094 - 0.25 lb. ai)	Non-ionic Surfactant (NIS) at 0.25% v/v  or 1% v/v Crop Oil Concentrate in the finished spray volume	For repeat applications, make on a minimum of a 14-day interval.

### Restrictions

- **DO NOT** apply more than 16 fl. oz./A (0.25 lb. ai/A) in a single application.
- **DO NOT** apply more than 32 fl. oz./A (0.50 lb. ai/A) per year.
- **DO NOT** exceed four 6 - 8 fl. oz./A (0.094 - 0.125 lb. ai/A) applications per year, three 8 - 10 fl. oz./A (0.125 - 0.156 lb. ai/A) applications per year or two 10 - 16 fl. oz./A (0.156 - 0.25 lb. ai/A) applications per year.
- **DO NOT** make repeat applications less than 14-days apart.
- **DO NOT** use on vegetable crops being grown for seed production unless specific use directions are provided in this table.

## Tree Nuts (Crop Group 14-12)

**including:** African nut tree, Almond, Beechnut, Brazil nut, Brazilian pine, Bunya, Bur oak, Butternut, Cajou nut, Candlenut, Cashew, Chestnut, Chinquapin, Coconut, Coquito nut, Dika nut, Ginkgo, Guiana chestnut, Hazelnut (filbert), Heartnut, Hickory nut, Japanese horse-chestnut, Macadamia nut, Mongongo nut, Money-pot, Money puzzle nut, Okari nut, Pachira nut, Peach palm nut, Pecan, Pequi Pili nut, Pine nut, Pistachio, Sapucaia nut, Tropical almond, Walnut (black, English), Yellowhorn, Cultivars, varieties, and/or hybrids of these commodities

Minimum Time from Application to Harvest (PHI)	Use Rates Per Acre	Adjuvant Rates Per Acre	Specific Use Instructions
14 days	6 – 8 fl. oz. (0.094 - 0.125 lb. ai)	Non-ionic Surfactant (NIS) at 0.25% v/v  or 1% v/v Crop Oil Concentrate in the finished spray volume	For repeat applications, make on a minimum of a 14-day interval.

### Restrictions

- **DO NOT** apply more than 8 fl. oz./A (0.125 lb. ai/A) in a single application.
- **DO NOT** apply more than 32 fl. oz./A (0.50 lb. ai/A) per year.
- **DO NOT** exceed four applications per acre per year.
- **DO NOT** make repeat applications less than 14-days apart.
- Aerial application for all tree nut use is prohibited.

**Tuberous and Corm Vegetables** (Crop Subgroup 1C; except Potato)

**including:** Arracacha, Arrowroot, Artichoke (Chinese, Jerusalem), Canna, Cassava (bitter, sweet), Chayote, Chufa, Dasheen, Ginger, Leren, Sweet Potato, Tanier, Turmeric, Turnip, Yam

See separate Crop Specific Use Instructions on this label for instructions for use on Potato.

Minimum Time from Application to Harvest (PHI)	Use Rates Per Acre	Adjuvant Rates Per Acre	Specific Use Instructions
30 days	6 - 16 fl. oz. (0.094 - 0.25 lb. ai)	Non-ionic Surfactant (NIS) at 0.25% v/v  or 1% v/v Crop Oil Concentrate in the finished spray volume	For repeat applications, make on a minimum of a 14-day interval.

**Restrictions**

- **DO NOT** apply more than 16 fl. oz./A (0.25 lb. ai/A) in a single application.
- **DO NOT** apply more than 32 fl. oz./A (0.50 lb. ai/A) per year.
- **DO NOT** exceed four 6 - 8 fl. oz./A (0.094 - 0.125 lb. ai/A) applications per year, three 8 - 10 fl. oz./A (0.125 - 0.156 lb. ai/A) applications per year or two 10 - 16 fl. oz./A (0.156 - 0.25 lb. ai/A) applications per year.
- **DO NOT** make repeat applications less than 14-days apart.
- **DO NOT** use on vegetable crops being grown for seed production unless specific use directions are provided in this table.

**Watercress**

[Not for use in California]

Minimum Time from Application to Harvest (PHI)	Use Rates Per Acre	Adjuvant Rates Per Acre	Specific Use Instructions
30 days	6 - 8 fl. oz. (0.094 - 0.125 lb. ai)	Non-ionic Surfactant (NIS) at 0.25% v/v	For repeat applications, make on a minimum of a 14-day interval.

**Restrictions**

- **DO NOT** apply more than 8 fl. oz./A (0.125 lb. ai/A) in a single application.
- **DO NOT** apply more than 32 fl. oz./A (0.50 lb. ai/A) per year.
- **DO NOT** exceed four applications per acre per year.
- **DO NOT** make repeat applications less than 14-days apart.
- **DO NOT** apply when watercress is under flood conditions.
- **DO NOT** apply AGH19012 when water is in the field and hold water for at least 24 hours after an application.
- **DO NOT** use on vegetable crops being grown for seed production unless specific use directions are provided in this table.

## INSTRUCTIONS FOR ANNUAL GRASSES

### (EXCEPT FOR IN ESTABLISHED ALFALFA, PEPPERMINT AND SPEARMINT TOPS)

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

#### Restrictions:

- **DO NOT** exceed the maximum rate per application listed in Table 1 "Crop Specific Use Directions".
- **DO NOT** exceed the maximum number of applications per year listed in Table 1 "Crop Specific Use Directions".
- **DO NOT** exceed the maximum yearly rate listed in Table 1 "Crop Specific Use Directions".
- Follow any other application restrictions indicated in the Table 1 "Crop Specific Use Directions".

**TABLE 2: ANNUAL GRASSES  
(EXCEPT FOR IN ESTABLISHED ALFALFA, PEPPERMINT AND SPEARMINT TOPS)**

Annual Grass Species	Scientific Name	Weed* Height (inches)	Rate per Acre	High Rate <sup>(1)</sup> per Acre
Barnyardgrass	<i>Echinochloa crus-galli</i>	2 - 8	6 fl. oz (0.094 lb. ai)	8 fl. oz. (0.125 lb. ai)
Broadleaf Signalgrass	<i>Brachiaria platyphylla</i>	2 - 6	6 fl. oz (0.094 lb. ai)	8 fl. oz. (0.125 lb. ai)
Brome				
California	<i>Bromus carinatus</i>	2 - 6	6 fl. oz (0.094 lb. ai)	8 fl. oz. (0.125 lb. ai)
Cheatgrass	<i>Bromus secalinus</i>	2 - 6	6 fl. oz (0.094 lb. ai)	8 fl. oz. (0.125 lb. ai)
Downy	<i>Bromus tectorum</i>	2 - 6	6 fl. oz (0.094 lb. ai)	8 fl. oz. (0.125 lb. ai)
Ripgut	<i>Bromus diandrus</i>	2 - 6	6 fl. oz (0.094 lb. ai)	8 fl. oz. (0.125 lb. ai)
Canarygrass	<i>Phalaris canariensis</i>	1 - 4	6 fl. oz (0.094 lb. ai)	8 fl. oz. (0.125 lb. ai)
Crabgrass				
Hairy	<i>Digitaria adscendens</i>	2 - 6**	6 fl. oz (0.094 lb. ai)	8 fl. oz. (0.125 lb. ai)
Large	<i>Digitaria sanguinalis</i>	2 - 6**	6 fl. oz (0.094 lb. ai)	8 fl. oz. (0.125 lb. ai)
Smooth	<i>Digitaria ischaemum</i>	2 - 6**	6 fl. oz (0.094 lb. ai)	8 fl. oz. (0.125 lb. ai)
Southern	<i>Digitaria ciliaris</i>	2 - 6**	6 fl. oz (0.094 lb. ai)	8 fl. oz. (0.125 lb. ai)
Crowfootgrass	<i>Dactyloctenium aegyptium</i>	2 - 6**	6 fl. oz (0.094 lb. ai)	8 fl. oz. (0.125 lb. ai)
Fall Panicum	<i>Panicum dichotomiflorum</i>	2 - 8	6 fl. oz (0.094 lb. ai)	8 fl. oz. (0.125 lb. ai)
Field Sandbur	<i>Cenchrus incertus</i>	2 - 6	6 fl. oz (0.094 lb. ai)	8 fl. oz. (0.125 lb. ai)
Foxtail				
Giant	<i>Setaria faberi</i>	2 - 12	6 fl. oz (0.094 lb. ai)	8 fl. oz. (0.125 lb. ai)
Green	<i>Setaria viridis</i>	2 - 8	6 fl. oz (0.094 lb. ai)	8 fl. oz. (0.125 lb. ai)
Yellow	<i>Setaria glauca</i>	2 - 8	6 fl. oz (0.094 lb. ai)	8 fl. oz. (0.125 lb. ai)
Goosegrass	<i>Eleusine indica</i>	2 - 6**	6 fl. oz (0.094 lb. ai)	8 fl. oz. (0.125 lb. ai)
Itchgrass	<i>Rottboellia cochinchinensis</i>	2 - 6	6 fl. oz (0.094 lb. ai)	8 fl. oz. (0.125 lb. ai)
Junglerice	<i>Echinochloa colona</i>	2 - 6	6 fl. oz (0.094 lb. ai)	8 fl. oz. (0.125 lb. ai)
Lovegrass (Stinkgrass)	<i>Eragrostis cilianensis</i>	2 - 6	6 fl. oz (0.094 lb. ai)	8 fl. oz. (0.125 lb. ai)
Rabbitsfootgrass	<i>Polypogon monspeliensis</i>	1 - 4	6 fl. oz (0.094 lb. ai)	8 fl. oz. (0.125 lb. ai)
Red Rice	<i>Oryza sativa</i>	1 - 3	6 fl. oz (0.094 lb. ai)	8 fl. oz. (0.125 lb. ai)
Ryegrass				
Hardy	<i>Lolium remotum</i>	2 - 6	6 fl. oz (0.094 lb. ai)	8 fl. oz. (0.125 lb. ai)
Italian	<i>Lolium multiflorum</i>	2 - 6	6 fl. oz (0.094 lb. ai)	8 fl. oz. (0.125 lb. ai)

**TABLE 2: ANNUAL GRASSES  
(EXCEPT FOR IN ESTABLISHED ALFALFA, PEPPERMINT AND SPEARMINT TOPS)**

<b>Annual Grass Species</b>	<b>Scientific Name</b>	<b>Weed* Height (inches)</b>	<b>Rate per Acre</b>	<b>High Rate<sup>(1)</sup> per Acre</b>
Seedling Johnsongrass	<i>Sorghum halepense</i>	4 - 10	6 fl. oz (0.094 lb. ai)	8 fl. oz. (0.125 lb. ai)
Shattercane	<i>Sorghum bicolor</i>	6 - 18	6 fl. oz (0.094 lb. ai)	8 fl. oz. (0.125 lb. ai)
Southwestern Cupgrass	<i>Eriochloa gracillis</i>	2 - 6	6 fl. oz (0.094 lb. ai)	8 fl. oz. (0.125 lb. ai)
<b>Sprangletop</b>				
Amazon	<i>Leptochloa panicoides</i>	2 - 6	6 fl. oz (0.094 lb. ai)	8 fl. oz. (0.125 lb. ai)
Bearded	<i>Leptochloa fascicularis</i>	2 - 6	6 fl. oz (0.094 lb. ai)	8 fl. oz. (0.125 lb. ai)
Mexican	<i>Leptochloa uninervia</i>	2 - 6	6 fl. oz (0.094 lb. ai)	8 fl. oz. (0.125 lb. ai)
Red	<i>Leptochloa filiformis</i>	2 - 6	6 fl. oz (0.094 lb. ai)	8 fl. oz. (0.125 lb. ai)
Texas Panicum	<i>Panicum texanum</i>	2 - 6	6 fl. oz (0.094 lb. ai)	8 fl. oz. (0.125 lb. ai)
<b>Volunteer Cereals <sup>(2)</sup></b>				
Barley	<i>Hordeum vulgare</i>	2 - 6	6 fl. oz (0.094 lb. ai)	8 fl. oz. (0.125 lb. ai)
Oats	<i>Avena sativa</i>	2 - 6	6 fl. oz (0.094 lb. ai)	8 fl. oz. (0.125 lb. ai)
Rye	<i>Secale cereale</i>	2 - 6	6 fl. oz (0.094 lb. ai)	8 fl. oz. (0.125 lb. ai)
Wheat	<i>Triticum aestivum</i>	2 - 6	6 fl. oz (0.094 lb. ai)	8 fl. oz. (0.125 lb. ai)
Volunteer Corn <sup>(3)</sup>	<i>Zea mays</i>	4 - 12	4 fl. oz. (0.0625 lb. ai)	6 fl. oz. (0.094 lb. ai)
Volunteer Corn <sup>(3)</sup>	<i>Zea mays</i>	12 - 24	6 fl. oz (0.094 lb. ai)	8 fl. oz. (0.125 lb. ai)
Volunteer Corn (S.R.) <sup>(4)</sup>	<i>Zea mays</i>	4 - 12	8 fl. oz. (0.125 lb. ai) (suppression only)	
Volunteer Grain Sorghum	<i>Sorghum bicolor</i>	8 - 12	6 fl. oz (0.094 lb. ai)	8 fl. oz. (0.125 lb. ai)
Wild Oats	<i>Avena fatua</i>	2 - 6	6 fl. oz (0.094 lb. ai)	8 fl. oz. (0.125 lb. ai)
Wild Proso Millet	<i>Panicum miliaceum</i>	2 - 10	6 fl. oz (0.094 lb. ai)	8 fl. oz. (0.125 lb. ai)
Witchgrass	<i>Panicum capillare</i>	2 - 8	6 fl. oz (0.094 lb. ai)	8 fl. oz. (0.125 lb. ai)
Woolly Cupgrass	<i>Eriochloa villosa</i>	2 - 8	6 fl. oz (0.094 lb. ai)	8 fl. oz. (0.125 lb. ai)

\* Generally, occurs between 3-leaf stage and tillering

\*\*Length of lateral growth

- (1) Where experience has shown that higher rates are needed for satisfactory control of annual grasses, rates higher than 8 fl. oz./A (0.125 lbs. ai/A) may be applied in certain geographic areas, environmental conditions, or cropping situations. In these situations, rates from 8 to 16 fl. oz./A (0.125 to 0.250 lb. ai/A) may be applied.
- (2) When the cereal grain crop (for example: wheat) is interseeded for crop establishment or is planted as wind breaks to aid crop establishment, the minimum AGH19012 use rate for control is 8 fl. oz./A (0.125 lb. ai/A).
- (3) Includes glyphosate resistant, glufosinate resistant, and imidazolinone resistant volunteer corn.
- (4) Sethoxydim resistant volunteer corn.

**INSTRUCTIONS FOR ANNUAL & PERENNIAL GRASS CONTROL IN ESTABLISHED ALFALFA, PEPPERMINT AND SPEARMINT TOPS**

<b>TABLE 3: ESTABLISHED ALFALFA, PEPPERMINT AND SPEARMINT TOPS</b>			
<b>Grass Species</b>	<b>Weed Stage</b>	<b>Rate per Acre</b>	<b>High Rate per Acre</b>
See Table 2 "Annual Grasses" and Table 6 "Perennial Grasses"	See Table 2 "Annual Grasses" and Table 6 "Perennial Grasses"	10 fl. oz. (0.156 lb. ai)	16 fl. oz. (0.25 lb. ai)
<p><b>Mowing:</b> The best control of annual grasses can be achieved by applying AGH19012 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 application of AGH19012 for partial or complete control.</p> <p><b>Irrigated Alfalfa, Peppermint and Spearmint Tops:</b> In established alfalfa, peppermint and spearmint tops, irrigation practices can be very critical to the successful use of AGH19012 and may be necessary to initiate active growth of the weeds prior to application. Applications 2 to 4 days following irrigation are most effective. More consistent grass control occurs when the irrigation occurs before the application is made but irrigation shortly after application (2 days) can be effective.</p> <p><b>Aerial Application:</b> Apply AGH19012 in a minimum of 10 GPA in established alfalfa, peppermint and spearmint tops when applying by air.</p> <p><b>Annual Grass Control:</b> Apply AGH19012 at the grass sizes indicated in Table 2 "Annual Grasses" at the rates indicated above. If a grass has been cut, apply AGH19012 after active growth has resumed and regrowth has reached the minimum height and before it reaches the maximum height indicated. Apply before the alfalfa, peppermint and spearmint tops 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 AGH19012 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. 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, including frost, slower plant growth, or the onset of flowering.</p> <p><b>Perennial Grass Control:</b> AGH19012 effectively controls perennial grasses including 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 including established alfalfa. 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 when grasses are at or near maximum height and/or under heavy grass pressure.</p> <p>Always add a crop oil concentrate at 1 qt./A by ground or 1% v/v (but not less than 1 pt./A) to the finished spray volume by air.</p>			

## INSTRUCTIONS FOR ANNUAL BLUEGRASS CONTROL WITH AGH19012

Apply under favorable soil moisture and humidity conditions that exists within a few days after rainfall or within 7 days after irrigation. Grasses need to be actively growing at time of application(s). Apply at the weed stage listed below, as reduced control can be expected with more mature annual bluegrass. Use the higher rate under heavy grass pressure and/or when annual bluegrass is more mature.

Always add a crop oil concentrate at 1 qt./acre by ground to the finished spray volume.

<b>TABLE 4: ANNUAL BLUEGRASS CONTROL</b>			
<b>Grass Species</b>	<b>Weed Stage</b>	<b>Rate per Acre</b>	<b>High Rate per Acre</b>
Annual Bluegrass ( <i>Poa annua</i> )	Up to 4-Leaf	6 fl. oz (0.094 lb. ai)*	16 fl. oz. (0.25 lb. ai)

\*Use a minimum of 8 fl. oz./acre (0.125 lbs. ai/acre) to control annual bluegrass in seedling and established alfalfa, peppermint and spearmint tops.

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

#### **[Reduce Rate Directions are Not for Use in California]**

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

Always add a crop oil concentrate at 1 qt./acre by ground to the finished spray volume.

#### **Restrictions:**

- **DO NOT** exceed the maximum number of applications per year listed in Table 1 "Crop Specific Use Directions".
- **DO NOT** exceed the maximum yearly rate listed in Table 1 "Crop Specific Use Directions".
- Follow any other application restrictions indicated in the Table 1 "Crop Specific Use Directions".

<b>TABLE 5: REDUCED RATE TO CONTROL SMALL ANNUAL GRASSES (CANOLA, DRY SHELLED BEAN &amp; PEA [INCLUDING SOYBEAN], EDIBLE PODDED LEGUME VEGETABLES, FLAX, MUSTARD SEED, SUCCULENT SHELLED BEAN &amp; PEA, AND SUGARBEET</b>			
<b>Annual Grass Species</b>	<b>Scientific Name</b>	<b>Weed Height (inches)</b>	<b>Rate per Acre</b>
Barnyardgrass	<i>Echinochloa crus-galli</i>	1 - 4	4 fl. oz (0.0625 lb. ai)
Broadleaf Signalgrass	<i>Brachiaria platyphylla</i>	1 - 4	5 fl oz. (0.078 lb. ai)
<i>Crabgrass</i>			
Large	<i>Digitaria sanguinalis</i>	1 - 3*	4 fl. oz (0.0625 lb. ai)
Large	<i>Digitaria sanguinalis</i>	1 - 4*	5 fl oz. (0.078 lb. ai)
Smooth	<i>Digitaria ischaemum</i>	1 - 3*	4 fl. oz (0.0625 lb. ai)
Smooth	<i>Digitaria ischaemum</i>	1 - 4*	5 fl oz. (0.078 lb. ai)
Southern	<i>Digitaria ciliaris</i>	1 - 4*	5 fl oz. (0.078 lb. ai)
Fall Panicum	<i>Panicum dichotomiflorum</i>	1 - 4	4 fl. oz. (0.0625 lb. ai)

**TABLE 5: REDUCED RATE TO CONTROL SMALL ANNUAL GRASSES (CANOLA, DRY SHELLLED BEAN & PEA [INCLUDING SOYBEAN], EDIBLE PODDED LEGUME VEGETABLES, FLAX, MUSTARD SEED, SUCCULENT SHELLLED BEAN & PEA, AND SUGARBEET**

Annual Grass Species	Scientific Name	Weed Height (inches)	Rate per Acre
Foxtail			
Giant	<i>Setaria faberi</i>	1 - 4	4 fl. oz. (0.0625 lb. ai)
Green	<i>Setaria viridis</i>	1 - 4	4 fl. oz. (0.0625 lb. ai)
Millet	<i>Setaria italica</i>	1 - 4	5 fl oz. (0.078 lb. ai)
Yellow	<i>Setaria glauca</i>	1 - 4	4 fl. oz (0.0625 lb. ai)
Seedling Johnsongrass	<i>Sorghum halepense</i>	1 - 6	5 fl oz. (0.078 lb. ai)
Shattercane	<i>Sorghum bicolor</i>	4 - 10	4 fl. oz. (0.0625 lb. ai)
Texas Panicum	<i>Panicum texanum</i>	1 - 4	5 fl oz. (0.078 lb. ai)
Volunteer Cereals			
Barley	<i>Hordeum vulgare</i>	1 - 4	5 fl oz. (0.078 lb. ai)
Oats	<i>Avena sativa</i>	1 - 4	5 fl oz. (0.078 lb. ai)
Wheat	<i>Triticum aestivum</i>	1 - 4	5 fl oz. (0.078 lb. ai)
Volunteer Corn**	<i>Zea mays</i>	4 - 12	4 fl. oz. (0.0625 lb. ai)
Wild Oats	<i>Avena fatua</i>	1 - 4	5 fl oz. (0.078 lb. ai)
Wild Proso Millet	<i>Panicum miliaceum</i>	1 - 6	4 fl. oz. (0.0625 lb. ai)

\* Length of lateral growth

\*\* Not sethoxydim resistant corn



## INSTRUCTIONS FOR PERENNIAL GRASSES

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

### Restrictions:

- **DO NOT** exceed the maximum rate per application listed in Table 1 "Crop Specific Use Directions".
- **DO NOT** exceed the maximum number of applications per year listed in Table 1 "Crop Specific Use Directions".
- **DO NOT** exceed the maximum yearly rate listed in Table 1 "Crop Specific Use Directions".
- Follow any other application restrictions indicated in the Table 1 "Crop Specific Use Directions".

<b>TABLE 6: PERENNIAL GRASSES</b>				
Perennial Grass Species	Scientific Name	Weed Height (inches)	Rate per Acre	High Rate per Acre
Bermudagrass	<i>Cynodon dactylon</i>			
First Application		3 (or up to 6" runners)	8 fl. oz. (0.125 lb. ai)	16 fl. oz. (0.025 lb. ai)
Repeat Application(s) (if regrowth occurs)		3 (or up to 6" runners)	8 fl. oz. (0.125 lb. ai)	16 fl. oz. (0.025 lb. ai)
Fescue, tall	<i>Festuca arundinacea</i>			
First Application		4 - 8	8 fl. oz. (0.125 lb. ai)	16 fl. oz. (0.025 lb. ai)
Repeat Application(s) (if regrowth occurs)		4 - 8	8 fl. oz. (0.125 lb. ai)	16 fl. oz. (0.025 lb. ai)
Foxtail Barley	<i>Hordeum jubatum</i>			
First Application		2 - 6	8 fl. oz. (0.125 lb. ai)	16 fl. oz. (0.025 lb. ai)
Repeat Application(s) (if regrowth occurs)		2 - 6	8 fl. oz. (0.125 lb. ai)	16 fl. oz. (0.025 lb. ai)
Orchardgrass	<i>Dactylis glomerata</i>			
First Application		4 - 8	8 fl. oz. (0.125 lb. ai)	16 fl. oz. (0.025 lb. ai)
Repeat Application(s) (if regrowth occurs)		4 - 8	8 fl. oz. (0.125 lb. ai)	16 fl. oz. (0.025 lb. ai)
Quackgrass*	<i>Elytrigia repens</i>			
First Application		4 - 12	8 fl. oz. (0.125 lb. ai)	16 fl. oz. (0.025 lb. ai)
Repeat Application(s) (if regrowth occurs)		4 - 12	8 fl. oz. (0.125 lb. ai)	16 fl. oz. (0.025 lb. ai)
Rhizome Johnsongrass	<i>Sorghum halepense</i>			
First Application		12 - 24	8 fl. oz.	16 fl. oz.

TABLE 6: PERENNIAL GRASSES				
Perennial Grass Species	Scientific Name	Weed Height (inches)	Rate per Acre	High Rate per Acre
			(0.125 lb. ai)	(0.025 lb. ai)
Repeat Application(s) (if regrowth occurs)		6 - 18	6 fl. oz. (0.094 lb. ai)	8 fl. oz. (0.125 lb. ai)
Wirestem Muhly	<i>Muhlenbergia frondosa</i>			
First Application		4 - 8	8 fl. oz. (0.125 lb. ai)	16 fl. oz. (0.025 lb. ai)
Repeat Application(s) (if regrowth occurs)		4 - 8	8 fl. oz. (0.125 lb. ai)	16 fl. oz. (0.025 lb. ai)
Perennial Bluegrass*				
Roughstalk	<i>Poa trivialis</i>			
Kentucky	<i>Poa prantensis</i>			
First Application		2 - 4	8 fl. oz. (0.125 lb. ai)	16 fl. oz. (0.025 lb. ai)
Repeat Application(s) (if regrowth occurs)		2 - 4	8 fl. oz. (0.125 lb. ai)	16 fl. oz. (0.025 lb. ai)
Bentgrass*	<i>Agrostis spp.</i>			
First Application		2 - 4	-	16 fl. oz. (0.025 lb. ai)
Repeat Application(s) (if regrowth occurs)		2 - 4	-	16 fl. oz. (0.025 lb. ai)
*Control of quackgrass, perennial bluegrass and bentgrass with AGH19012 may be enhanced by adding AMS at 2.5 to 4.0 lbs./acre.				

### TANK MIX INFORMATION

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture, including all crop rotational and other crop restrictions. Those concerns may include, but are not limited to:

- (1) Geographic restrictions – not all products are 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 (i.e., protective clothing requirements, reentry time);
- (5) Soil type or soil characteristics;
- (6) Maximum application rate or number or applications allowed per year;
- (7) Rain free period required;
- (8) Application timing (e.g. pre-harvest interval)
- (9) **DO NOT** exceed the total yearly rates.

## **TANK MIX APPLICATION OF AGH19012 AND BROADLEAF HERBICIDES FOR CONTROL OF GRASSES AND BROADLEAF WEEDS**

Make application to actively growing grasses and broadleaf weeds at specified height or growth state listed on each label. Apply when the first grass or broadleaf weed species in a mixed population reaches the specified growth state for treatment. Apply under favorable soil moisture and humidity, which exist a few days after rainfall or within seven days after irrigation. **DO NOT** tank mix AGH19012 when broadleaf weeds are tall and/or dense enough to prevent proper grass coverage.

Always add the appropriate adjuvant to the spray mix at the rate specified 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 AGH19012 as specified in the respective size and rate tables.

### **Mixing Instructions**

Use the jar test to verify mixing and compatibility properties. Maintain agitation throughout the spray application. Unsatisfactory weed control may result due to improper mixing if continuous agitation is not maintained during application.

- (1) Fill clean spray tank 1/2 to 2/3 of desired level with clean water.
- (2) While agitating, add the correct amount of AGH19012. Appropriate agitation is achieved when rippling or rolling occurs on the water surface.
- (3) If tank mixing AGH19012 with other labeled pesticides, 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. Continue agitation until all spray solution has been applied.

### **Information on Antagonism**

Tank mixes of AGH19012 with postemergence broadleaf herbicides have shown some reduction or failure to control certain grass species which would have otherwise been controlled when AGH19012 is applied alone. Activity of the postemergence broadleaf herbicide in the tank mix is not affected.

## ALFALFA TANK MIXES

<b>TABLE 7: AGH19012 TANK MIXES WITH BROADLEAF HERBICIDES FOR ALFALFA</b> (Refer to Table 2 "Annual Grasses" and Table 6 "Perennial Grasses" for specific grasses and growth stages)				
<b>Product<sup>(2)</sup></b>	<b>Application Rate/Acre<sup>(1)</sup></b>			
	<b>Annual Grasses</b>	<b>Perennial Grasses</b>	<b>Crop Oil Concentrate<sup>(3)</sup> (v/v)</b>	
			<b>Ground</b>	<b>Air</b>
AGH19012 + 2,4-DB <sup>(4)</sup>	10 - 16 fl. oz. (0.156 - 0.25 lb. ai) + Refer to 2,4-DB label for use rate	10 - 16 fl. oz. (0.156 - 0.25 lb. ai) + Refer to 2,4-DB label for use rate	1%	1%
AGH19012 + Imazethapyr <sup>(5)</sup>	10 - 16 fl. oz. (0.156 - 0.25 lb. ai) + Refer to imazethapyr label for use rate	-	1%	1%
AGH19012 + Bromoxynil <sup>(6,7)</sup>	10 - 16 fl. oz. (0.156 - 0.25 lb. ai) + Refer to bromoxynil label for use rate	-	0.5%	0.5%

(1) If grass regrowth occurs or an additional flush of new grass emerges, make a second application of AGH19012 alone (without a tank mix herbicide), according to the appropriate size and rate requirements.

(2) 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 advised in these situations.

(3) Always use a crop oil concentrate at the listed rate (but not less than 1pt./A) in the finished spray volume.

(4) AGH19012 plus 2,4-DB may increase the severity of crop injury when tank mixed. Alfalfa plants will outgrow this temporary crop injury within a few weeks.

(5) Before using this tank mix, read and understand the imazethapyr labels for geographical restrictions and restrictions regarding alfalfa growth stage and type. Failure to do so can result in crop injury to alfalfa.  
Restriction: **DO NOT** feed, graze, or harvest alfalfa for 30 days following an application of imazethapyr to alfalfa.

(6) 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 AGH19012 plus bromoxynil tank mix must be applied in the fall or spring to seedling alfalfa when the majority of the field has a minimum of 2 trifoliates. Unacceptable crop injury may occur to alfalfa seedlings less than the 2 trifoliolate leaf stage. AGH19012 plus bromoxynil applications made when temperatures are expected to exceed 80°F and 3 days following application can result in unacceptable crop injury. In 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. When alfalfa stand is uneven and conditions favor leaf burn, unacceptable crop injury may occur to alfalfa in the 2 trifoliolate or smaller stage of growth. AGH19012 plus bromoxynil applications made when temperatures are expected to exceed 70°F and 3 days following application can result in unacceptable crop injury. Crop leaf burn can occur following AGH19012 plus bromoxynil application. Warm, humid conditions may enhance leaf burn. New crop growth will not be affected.

(7) **DO NOT** apply when alfalfa is under moisture, temperature, insect or disease stress or has been stressed by other pesticide carryover or application.

**CANOLA TANK MIX**  
**[Not for Use in California]**

<b>TABLE 8: REDUCED RATE AGH19012 TANK MIX WITH BROADLEAF HERBICIDES FOR CANOLA</b> (Refer to Table 5 "Reduced Rate to Control Small Annual Grasses" for specific grasses and growth stages)				
<b>Product</b>	<b>Application Rate/Acre</b>			
	<b>Annual Grasses</b>	<b>Perennial Grasses</b>	<b>Ammonium Sulfate</b>	
			<b>Ground</b>	<b>Air</b>
AGH19012 <sup>(1)</sup> + Glufosinate <sup>(2)</sup>	4 - 5 fl. oz. (0.0625 - 0.078 lb. ai) + Refer to glufosinate label for use rate	-	3.0 lbs.	3.0 lbs.

(1) **DO NOT** apply AGH19012 tank mix during or after bolting or flowering or crop injury may occur.  
(2) For use only on glufosinate resistant canola.

**COTTON TANK MIXES**

<b>TABLE 9: AGH19012 WITH LACTOFEN AND MSMA APPLIED POST DIRECTED TO COTTON</b> (Refer to Table 2 "Annual Grasses" and Table 6 "Perennial Grasses" for specific grasses and growth stages)				
<b>Product<sup>(2)</sup></b>	<b>Application Rates/Acre<sup>(1)</sup></b>		<b>Crop Oil Concentrate<sup>(3)</sup></b>	<b>Comments</b>
	<b>Annual Grasses</b>	<b>Perennial Grasses</b>	<b>Ground</b>	
AGH19012 <sup>(4)</sup> + Lactofen + MSMA	6 - 8 fl. oz. (0.094 - 0.125 lb. ai)	8 - 16 fl. oz. (0.125 - 0.25 lb. ai)	1% v/v	Reduce broadcast rate in proportion to the band area actually treated.
	See the lactofen label for rates to control broadleaf weeds and height limitations for cotton.			
	See the MSMA 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 AGH19012 alone (without a tank mix herbicide), according to the appropriate size and rate directions.  
(2) 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 advised in these situations.  
(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 AGH19012 may be necessary.

<b>TABLE 10: AGH19012 WITH GLYPHOSATE TO CONTROL EMERGED GRASSES IN COTTON (BROADCAST)</b> (Refer to Table 2 "Annual Grasses" and Table 6 "Perennial Grasses" for specific grasses and growth stages)					
<b>Product</b>	<b>Application Rate/Acre<sup>(1)</sup></b>		<b>Adjuvant</b>		<b>Comments</b>
	<b>Annual Grasses</b>	<b>Perennial Grasses</b>	Glyphosate formulation <b>with</b> built in adjuvant	Glyphosate formulation <b>without</b> built in adjuvant	
AGH19012 + Glyphosate	6 - 8 fl. oz. (0.094 - 0.125 lb. ai)	8 - 16 fl. oz. (0.125 - 0.25 lb. ai)	Non-ionic surfactant at 0.125 to 0.25% v/v plus ammonium sulfate at 8.5 to 17 lbs. per 100 gals. of carrier	Crop oil concentrate at 1 pt./A plus ammonium sulfate at 8.5 to 17 lbs. per 100 gals. of carrier	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 AGH19012 at the specified rate with the appropriate amount of crop oil.					

**DRY SHELLED BEAN TANK MIX**  
[Not for Use in California]

<b>TABLE 11: AGH19012 TANK MIX WITH BROADLEAF HERBICIDES FOR DRY SHELLED BEANS</b> (Refer to Table 2 "Annual Grasses" and Table 6 "Perennial Grasses" for specific grasses and growth stages)				
<b>Product<sup>(2)</sup></b>	<b>Application Rates/Acre<sup>(1)</sup></b>			
	<b>Annual Grasses</b>	<b>Perennial Grasses</b>	<b>Crop Oil Concentrate<sup>(3)</sup> (v/v)</b>	
			<b>Ground</b>	<b>Air</b>
AGH19012 + Bentazon	8 - 10 fl. oz. (0.125 - 0.156 lb. ai) + Refer to bentazon label for use rate	10 - 16 fl. oz. (0.156 - 0.25 lb. ai) + Refer to bentazon label for use rate	1%	1%
<p>(1) If grass regrowth occurs or an additional flush of new grass emerges, make a second application of AGH19012 alone (without a tank mix herbicide), according to the appropriate size and rate directions.</p> <p>(2) 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 advised in these situations.</p> <p>(3) Always use a crop oil concentrate at the listed rate (but not less than 1 pt./A) in the finished spray volume.</p>				

**FLAX TANK MIX**  
[Not for Use in California]

<b>TABLE 12: REDUCED RATE AGH19012 TANK MIX WITH BROMOXYNIL FOR FLAX</b> (Refer to Table 5 "Reduced Rate to Control Small Annual Grasses" for specific grasses and growth stages)				
<b>Product</b>	<b>Application Rate/Acre</b>			
	<b>Annual Grasses</b>	<b>Perennial Grasses</b>	<b>Crop Oil Concentrate</b>	
			<b>Ground</b>	<b>Air</b>
AGH19012 + Bromoxynil <sup>(1)</sup>	4 - 5 fl. oz. (0.0625 - 0.078 lb. ai) + Refer to bromoxynil label for use rate	-	1 pt.	1 pt.

(1) **DO NOT** apply AGH19012 tank mix during or after the bud stage or to ornamental flax or crop injury may occur. **DO NOT** apply tank mix if temperatures are expected to exceed 85°F at (or 3 days flowing application) or crop injury may occur.

**SOYBEAN TANK MIXES**

<b>TABLE 13: AGH19012 TANK MIX TO CONTROL ANNUAL GRASSES WHEN USED AS A BURNDOWN TREATMENT IN NO-TILL SOYBEANS</b>				
<b>Product</b>	<b>Application Rate/Acre<sup>(1)</sup></b>	<b>Grass Height</b>	<b>Crop Oil Concentrate/Acre<sup>(2)</sup></b>	<b>28% N or 32% N qts./A or 2.5 to 4.0 lbs. AMS</b>
AGH19012 + 2,4-D ester <sup>(3)</sup>	3 fl. oz. (0.047 lb. ai)	Foxtail 1 to 3" Fall Panicum 1 to 3"	1 qt	1 to 2 qt or 2.5 to 4.0 lbs. AMS
	4 fl. oz. (0.0625 lb. ai)	Foxtail 1 to 4" Fall Panicum 1 to 4'	1 qt	1 to 2 qts or 2.5 to 4.0 lbs. AMS
	6 - 8 fl. oz. (0.094 - 0.125 lb. ai) + Refer to 2,4-D ester label for use rate	See Table 2 "Annual Grasses" for grasses claimed	1 qt	1 to 2 qts or 2.5 to 4.0 lbs. AMS

(1) If regrowth occurs or an additional flush of new grass emerges, make a second application of AGH19012 according to the appropriate size and rate directions.  
(2) Always use a crop oil concentrate at the listed rate in the finished spray volume.  
(3) 2,4-D ester must not be used where drift sensitive crops may be grown.

**TABLE 14: AGH19012 TANK MIXES WITH BROADLEAF HERBICIDES FOR SOYBEANS**  
(Refer to Table 2 "Annual Grasses" and Table 6 "Perennial Grasses" for specific grasses and growth stages)

Product <sup>(2)</sup>	Application Rate/Acre <sup>(1)</sup>		Crop Oil Concentrate <sup>(3)</sup> (v/v)	
	Annual Grasses	Perennial Grasses	Ground	Air
	AGH19012 + Lactofen	6 - 8 fl. oz. (0.094 - 0.125 lb. ai) + Refer to lactofen label for use rate	8 - 16 fl. oz. (0.125 - 0.25 lb. ai) + Refer to lactofen label for use rate	0.5 to 1%
AGH19012 + Bentazon	8 - 10 fl. oz. (0.125 - 0.156 lb. ai) + Refer to bentazon label for use rate	10 - 16 fl. oz. (0.156 - 0.25 lb. ai) + Refer to bentazon label for use rate	1%	1%
AGH19012 + Glyphosate (For use on glyphosate resistant soybeans only)	6 - 8 fl. oz. (0.094 - 0.125 lb. ai) + Refer to glyphosate label for use rate	8 - 16 fl. oz. (0.125 - 0.25 lb. ai) + Refer to glyphosate label for use rate	0.5 to 1% <sup>(4)</sup>	1% <sup>(4)</sup>
AGH19012 + Acifluorfen	6 - 8 fl. oz. (0.094 - 0.125 lb. ai) + Refer to acifluorfen label for use rate	6 - 8 fl. oz. (0.094 - 0.125 lb. ai) + Refer to acifluorfen label for use rate	0.5 to 1%	1%
AGH19012 + Fomesafen <sup>(6)</sup>	6 - 8 fl. oz. (0.094 - 0.125 lb. ai) + Refer to fomesafen label for use rate	8 - 16 fl. oz. (0.125 - 0.25 lb. ai) + Refer to fomesafen label for use rate	1%	1%
AGH19012 + Chlorimuron ethyl	8 - 10 fl. oz. (0.125 - 0.156 lb. ai) + Refer to chlorimuron ethyl label for use rate	10 - 16 fl. oz. (0.156 - 0.25 lb. ai) + Refer to chlorimuron ethyl label for use rate	1%	1%
AGH19012 <sup>(5)</sup> + Imazethapyr	6 - 8 fl. oz. (0.094 - 0.125 lb. ai) + Refer to imazethapyr label for use rate	8 - 16 fl. oz. (0.125 - 0.25 lb. ai) + Refer to imazethapyr label for use rate	1%	1%
AGH19012 <sup>(5)</sup> + Lactofen + Chlorimuron ethyl	8 - 10 fl. oz. (0.125 - 0.156 lb. ai) + Refer to lactofen label for use rate + Refer to chlorimuron ethyl label for use rate	--	0.5%	1%



AGH19012 <sup>(5)</sup> + Lactofen + Bentazon	8 - 10 fl. oz. (0.125 - 0.156 lb. ai) + Refer to lactofen label for use rate + Refer to bentazon label for use rate	--	0.5%	1%
AGH19012 <sup>(5)</sup> + Lactofen + Imazethapyr	8 - 10 fl. oz. (0.125 - 0.156 lb. ai) + Refer to lactofen label for use rate + Refer to imazethapyr label for use rate	--	0.5%	1%
AGH19012 <sup>(5)</sup> + Flumiclorac + Imazethapyr	8 - 10 fl. oz. (0.125 - 0.156 lb. ai) + Refer to Flumiclorac label for use rate + Refer to imazethapyr label for use rate	--	1%	1%
AGH19012 <sup>(5)</sup> + Flumiclorac + Bentazon	8 - 10 fl. oz. (0.125 - 0.156 lb. ai) + Refer to flumiclorac label for use rate + Refer to bentazon label for use rate	--	1%	1%
AGH19012 <sup>(5)</sup> + Flumiclorac + Chlorimuron ethyl	8 - 10 fl. oz. (0.125 - 0.156 lb. ai) + Refer to flumiclorac label for use rate + Refer to chlorimuron ethyl label for use rate	--	1%	1%
AGH19012 <sup>(5)</sup> + Lactofen + Flumiclorac	6 - 8 fl. oz. (0.094 - 0.125 lb. ai) + Refer to lactofen label for use rate + Refer to flumiclorac label for use rate	--	0.5%	1%
AGH19012 <sup>(5)</sup> + Cloransulam	6 - 8 fl. oz. (0.094 - 0.125 lb. ai) + Refer to cloransulam label for use rate	8 - 16 fl. oz. (0.125 - 0.25 lb. ai) + Refer to cloransulam label for use rate	1%	--

AGH19012 <sup>(5)</sup> + Lactofen + Cloransulam	6 - 8 fl. oz. (0.094 - 0.125 lb. ai) + Refer to lactofen label for use rate + Refer to cloransulam label for use rate	8 - 16 fl. oz. (0.125 - 0.25 lb. ai) + Refer to lactofen label for use rate + Refer to cloransulam label for use rate	1%	--
AGH19012 <sup>(5)</sup> + Imazamox	6 - 8 fl. oz. (0.094 - 0.125 lb. ai) + Refer to imazamox label for use rate	--	1%	--
AGH19012 <sup>(5)</sup> + Lactofen + Imazamox	6 - 8 fl. oz. (0.094 - 0.125 lb. ai) + Refer to lactofen label for use rate + Refer to imazamox label for use rate	--	1%	--
AGH19012 <sup>(5)</sup> + Flumiclorac	6 - 8 fl. oz. (0.094 - 0.125 lb. ai) + Refer to flumiclorac label for use rate	--	1 qt./A	--
AGH19012 + Cloransulam + Fomesafen <sup>(6)</sup>	6 - 8 fl. oz. (0.094 - 0.125 lb. ai) + Refer to cloransulam label for use rate + Refer to fomesafen label for use rate	8 - 16 fl. oz. (0.125 - 0.25 lb. ai) + Refer to cloransulam label for use rate + Refer to fomesafen label for use rate	1%	--

- (1) If grass regrowth occurs or an additional flush of new grass emerges, make a second application of AGH19012 alone (without a tank mix herbicide), according to the appropriate size and rate directions.
- (2) 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 advised in these situations.
- (3) Always use a crop oil concentrate at the listed rate (but not less than 1 pt./A) in the finished spray volume.
- (4) The addition of 2.5 lb. of ammonium sulfate is required when AGH19012 is tank mixed with Glyphosate. If the Glyphosate formulation has a standalone built in adjuvant, add 0.125% v/v non-ionic surfactant in place of crop oil concentrate. If the glyphosate formulation does not have a built-in adjuvant system, add 0.5 to 1% crop oil concentrate for ground application and 1% v/v for aerial application.
- (5) The addition of 1 to 2 qts./A of liquid fertilizer (10-34-0, or 32% N) is advised. An equivalent amount (2.5 to 4.0 lbs./A) of spray grade ammonium sulfate may be added in place of liquid fertilizer. Fertilizer adjuvants are to be added in addition to the crop oil concentrate.
- (6) Refer to Fomesafen label for geographic and rotational restrictions.

**TABLE 15: REDUCED RATE AGH19012 TANK MIXES WITH BROADLEAF HERBICIDES FOR SOYBEAN**  
 (Refer to Table 5 "Reduced Rate to Control Small Annual Grasses" for specific grasses and growth stages)

[Reduced rate directions are not for use in California]

Product	Application Rates/Acre <sup>(1)</sup>			
	Annual Grasses	Perennial Grasses	Crop Oil Concentrate <sup>(2,3)</sup> (v/v)	
			Ground	Air
AGH19012 + Cloransulam	4 - 8 fl. oz. (0.0625 - 0.125 lb. ai) + Refer to cloransulam label for use rate	-	1%	1%
AGH19012 + Imazethapyr	4 - 6 fl. oz (0.0625 - 0.094 lb. ai) + Refer to imazethapyr label for use rate	-	1%	1%

(1) If grass regrowth occurs or an additional flush of new grass emerges, make a second application of AGH19012 alone (without a tank mix herbicide), according to the appropriate size and rate directions.

(2) Always use a crop oil concentrate at the listed rate (but not less than 1 pt./A) in the finished spray volume.

(3) The addition of 1 to 2 qts./A of liquid fertilizer (10-34-0, 28%N, or 32%N) is required when AGH19012 is tank mixed at reduce rate. An equivalent amount (2.5 to 4.0 lbs./A) of spray grade ammonium sulfate (AMS) may be added in place of liquid fertilizer. Fertilizer adjuvants are to be added in addition to the crop oil concentrate.

**USE DIRECTIONS FOR GLYPHOSATE RESISTANT VOLUNTEER CORN CONTROL IN GLYPHOSATE RESISTANT SOYBEANS WITH AGH19012 TANK MIX**

This tank mix may be applied postemergence to glyphosate resistant soybeans up through the full flowering stage. Apply this tank mixture only to actively growing grass and broadleaf weeds at specified height or growth stage listed on each label. Apply under favorable soil moisture and humidity which exist a few days after rainfall or within seven days after irrigation.

Avoid contact with foliage, green stems, or fruit crops, or any desirable plant and trees, other than glyphosate resistant soybeans as severe injury or destruction will result. **DO NOT** allow the AGH19012 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, including combinations of spray pressure and nozzle type that will result in fine particles (mist) that are likely to drift.

**Restriction: DO NOT** apply this tank mixture less than 60 days before harvest.

**TABLE 16: GLYPHOSATE RESISTANT VOUNTEER CORN CONTROL IN GLYPHOSATE RESISTANT SOYBEANS WITH AGH19012 TANK MIX**

<b>Glyphosate Resistant Volunteer Corn Height (inches)</b>	<b>AGH19012 <sup>(2) (3)</sup> Rate per Acre</b>	<b>Glyphosate<sup>(1)</sup> rate for formulations <u>with</u> built in adjuvant</b>	<b>Adjuvant</b>
<12	4 fl. oz. (0.0625 lb. ai)	1.0 to 2.0 lb. ai./A (Refer to glyphosate label)	Non-ionic surfactant at 0.125 to 0.25% v/v plus ammonium sulfate at 8.5 to 17 lbs. per 100 gals/ of carrier
12 - 18	5 fl. oz. (0.078 lb. ai)		
18 - 24	6 fl. oz. (0.094 lb. ai)		
<b>Glyphosate Resistant Volunteer Corn Height (inches)</b>	<b>AGH19012 <sup>(2) (3)</sup> Rate per Acre</b>	<b>Glyphosate<sup>(1)</sup> rate for formulations <u>without</u> built in adjuvant</b>	<b>Adjuvant</b>
<12	4 fl. oz. (0.0625 lb. ai)	Up to 2.0 lb. ai./A (Refer to glyphosate label)	Crop oil concentrate at 1 pt./A plus ammonium sulfate at 8.5 to 17 lbs. per 100 gals. of carrier
12 - 18	5 fl. oz. (0.078 lb. ai)		
18 - 24	6 fl. oz. (0.094 lb. ai)		

- (1) Glyphosate formulation must be labeled for use on glyphosate resistant soybeans.
- (2) Tank mix applications may sometimes result in reduced grass control. If regrowth occurs, or an additional flush of new grass emerges, make a second application of AGH19012, as specified in the respective size and rate tables.
- (3) **DO NOT** tank mix AGH19012 when broadleaf weeds are tall and/or dense enough to prevent proper grass coverage.

**PEANUT  
(INCLUDING PERENNIAL)**

<b>TABLE 17: AGH19012 TANK MIXES WITH BROADLEAF HERBICIDES FOR PEANUT (Refer to Table 2 "Annual Grasses" and Table 6 "Perennial Grasses" for specific grasses and growth stages)</b>				
<b>Product<sup>(2)</sup></b>	<b>Application Rates/Acre<sup>(1)</sup></b>			
	<b>Annual Grasses<sup>(2)</sup></b>	<b>Perennial Grasses</b>	<b>Crop Oil Concentrate<sup>(3)</sup> (v/v)</b>	
			<b>Ground</b>	<b>Air</b>
AGH19012 + Bentazon	8 - 10 fl. oz. (0.125 - 0.156 lb. ai) + Refer to bentazon label for use rate	-	1%	1%
AGH19012 + Acifluorfen	8 - 10 fl. oz. (0.125 - 0.156 lb. ai) + Refer to acifluorfen label for use rate	-	1%	1%

(1) If grass regrowth occurs or an additional flush of new grass emerges, make a second application of AGH19012 alone (without a tank mix herbicide), according to the appropriate size and rate directions.  
(2) 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 advised in these situations.  
(3) Always use a crop oil concentrate at the listed rate (but not less than 1 pt./A) in the finished spray volume.

<b>TABLE 18: GRASS SUPPRESSION FOR HARVEST EFFICIENCY IN PEANUT (INCLUDING PERENNIAL) WITH AGH19012</b>			
<b>Grass Species</b>	<b>Weed Stage</b>	<b>Rate per Acre</b>	<b>High Rate per Acre</b>
Annual and perennial grasses that exceed height claimed for control in Table 2 "Annual Grasses" and Table 6 "Perennial Grasses" on this label.	Up to and including grasses in the seed head stage	16 fl. oz. (0.25 lb. ai)	32 fl. oz. (0.50 lb. ai)

Add a crop oil concentrate at 1 qt./A by ground to the finished spray volume.

**Restrictions:**

- **DO NOT** apply as part of a tank mix when applying AGH19012 for grass suppression.
- **DO NOT** apply more than 32 fl. oz./A (0.50 lb. ai/A) in a single application.
- **DO NOT** apply more than 32 fl. oz./A (0.50 lb. ai/A) per year.
- **DO NOT** exceed two applications at 16 fl. oz./A (0.25 lb. ai/A) or one (1) application at 32 fl. oz./A (0.50 lb. ai/A).

## SUGAR BEET TANK MIXES

<b>TABLE 19: AGH19012 TANK MIXED WITH CLOPYRALID APPLIED TO SUGAR BEETS</b> Refer to Table 2 "Annual Grasses" and Table 6 "Perennial Grasses" for specific grasses and growth stages)				
Product <sup>(2)</sup>	Application Rate/Acre <sup>(1)</sup>		Crop Oil Concentrate <sup>(3)</sup> (v/v)	
	Annual Grasses	Perennial Grasses	Ground	Air
AGH19012 + Clopyralid	6 - 8 fl. oz. (0.094 - 0.125 lb. ai)	8 - 16 fl. oz. (0.125 - 0.25 lb. ai)	1%	
See the Clopyralid label for use rate.				

(1) If grass regrowth occurs or an additional flush of new grass emerges, make a second application of AGH19012 alone (without a tank mix herbicide), according to the appropriate size and rate directions.

(2) 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 advised in these situations.

(3) Always use a crop oil concentrate at the listed rate (but not less than 1 pt./A) in the finished spray volume.

<b>TABLE 20: AGH19012 TANK MIXED WITH FUNGICIDE FOR CONTROL OF GRASS WEEDS AND DISEASES IN SUGAR BEET</b>			
Product <sup>(2)</sup>	Application Rates/Acre <sup>(1)</sup>		Crop Oil Concentrate <sup>(3)</sup> (v/v)
	Annual Grasses	Perennial Grasses	
AGH19012 + Tetraconazole	6 – 8 fl. oz. (0.094 - 0.125 lb. ai) + Refer to tetraconazole label for use rates	8 to 16 fl. oz. (0.125 - 0.25 lb. ai) + Refer to tetraconazole label for use rates	1%

(1) If grass regrowth occurs, or an additional flush of new grass emerges, make a second application of AGH19012 alone (without a tank mix fungicide) according to the appropriate size and rate directions.

(2) Refer to AGH19012 and fungicide label for rates and weeds and diseases controlled.

(3) Always use a crop oil concentrate at the listed rate (but not less than 1 pt./A) in the finished spray volume.

**TABLE 21: TANK MIX APPLICATION OF AGH19012 AND INSECTICIDES FOR THE CONTROL OF GRASS WEEDS AND INSECTS IN ALFALFA, COTTON, PEPPERMINT AND SPEARMINT TOPS, PEANUTS (INCLUDING PERENNIAL), SOYBEANS & SUNFLOWER**

Product <sup>(2)</sup>	Application Rates/Acre <sup>(1)</sup>			Crops					
	Annual Grasses	Perennial Grasses	Crop Oil Concentrate (v/v) <sup>(3)</sup>	Alfalfa <sup>(4)</sup>	Cotton	Peppermint and Spearmint Tops <sup>(4)/(5)</sup>	Peanut	Soybean	Sunflower
AGH19012 + Acephate	6 - 8 fl. oz. (0.094 - 0.125 lb. ai) + Refer to acephate label for use rate	8 - 16 fl. oz. (0.125 - 0.25 lb. ai) + Refer to acephate label for use rate	1%		X	X	X	X	
AGH19012 + Fenprothrin	6 - 8 fl. oz. (0.094 - 0.125 lb. ai) + Refer to fenprothrin label for use rate	8 - 16 fl. oz. (0.125 - 0.25 lb. ai) + Refer to fenprothrin label for use rate	1%		X		X		
AGH19012 + Esfenvalerate	6 - 8 fl. oz. (0.094 - 0.125 lb. ai) + Refer to esfenvalerate label for use rate	8 - 16 fl. oz. (0.125 - 0.25 lb. ai) + Refer to esfenvalerate label for use rate	1%						X
AGH19012 + Lambda-cyhalothrin	6 - 8 fl. oz. (0.094 - 0.125 lb. ai) + Refer to Lambda-cyhalothrin label for use rate	8 - 16 fl. oz. (0.125 - 0.25 lb. ai) + Refer to Lambda-cyhalothrin label for use rate	1%						X
AGH19012 + Lambda-cyhalothrin	10 - 16 fl. oz. <sup>(6)</sup> (0.156 - 0.25 lb. ai) + Refer to Lambda-cyhalothrin label for use rate	10 - 16 fl. oz. (0.156 - 0.25 lb. ai) + Refer to Lambda-cyhalothrin label for use rate	1%	X					
AGH19012 + B-cyfluthrin	10 - 16 fl. oz. <sup>(6)</sup> (0.156 - 0.25 lb. ai) + Refer to B-cyfluthrin label for use rate	10 - 16 fl. oz. (0.156 - 0.25 lb. ai) + Refer to B-cyfluthrin label for use rate	1%	X					
AGH19012 + Dimethoate	10 - 16 fl. oz. <sup>(6)</sup> (0.156 - 0.25 lb. ai) +	10 - 16 fl. oz. (0.156 - 0.25 lb. ai) +	1%	X					

**TABLE 21: TANK MIX APPLICATION OF AGH19012 AND INSECTICIDES FOR THE CONTROL OF GRASS WEEDS AND INSECTS IN ALFALFA, COTTON, PEPPERMINT AND SPEARMINT TOPS, PEANUTS (INCLUDING PERENNIAL), SOYBEANS & SUNFLOWER**

Product <sup>(2)</sup>	Application Rates/Acre <sup>(1)</sup>			Crops					
	Annual Grasses	Perennial Grasses	Crop Oil Concentrate (v/v) <sup>(3)</sup>	Alfalfa <sup>(4)</sup>	Cotton	Peppermint and Spearmint Tops <sup>(4) (5)</sup>	Peanut	Soybean	Sunflower
	Refer to dimethoate label for use rate	Refer to dimethoate label for use rate							
AGH19012 + Permethrin	10 - 16 fl. oz. <sup>(6)</sup> (0.156 - 0.25 lb. ai) + Refer to permethrin label for use rate	10 - 16 fl. oz. (0.156 - 0.25 lb. ai) + Refer to permethrin label for use rate	1%	X					

- (1) If grass regrowth occurs, or an additional flush of new grass emerges, make a second application of AGH19012 alone (without a tank mix insecticide) according to the appropriate size and rate directions.
- (2) Refer to the AGH19012 and the insecticide label for rates, weeds, and insects controlled.
- (3) Always use a crop oil concentrate at the listed rate (but not less than 1 pt./A) in the finished spray volume.
- (4) Certain insecticides may cause temporary phytotoxic symptoms on alfalfa, peppermint and spearmint tops foliage.
- (5) The AGH19012 rate must be 6 to 8 fl. oz./A (0.094 - 0.125 lb. ai/A ) for annual grass control in baby mint, minimum of 8 fl. oz./A (0.125 lb. ai/A) for annual grass control in established peppermint and spearmint tops and 8 to 16 fl. oz./A (0.125 - 0.25 lb. ai/A) for perennial grass control. Add crop oil concentrate at the rate of 1.0 to 2.0 pts./A.
- (6) The AGH19012 rate must be 6 to 8 fl. oz./A (0.094 - 0.125 lb. ai/A ) for annual grass control in seedling alfalfa.



## NON-BEARING FOOD CROPS USE INSTRUCTIONS

Crop injury to non-bearing food crops can occur if AGH19012 is improperly applied. This product must not be applied directly over the top of these plant types. Instead, spray must be directed at the base of the plant where grassy weeds are growing near the ground.

Non-bearing food crops are plants that will not bear fruit or nuts for at least one year following AGH19012.

Crops		Use Rate/ Acre	Special Use Instructions/Restrictions
Common Name	Scientific Name	6 - 8 fl. oz. (0.094 - 0.125 lb. ai)	Add a non-ionic surfactant containing at least 80% active ingredient at the rate of 1 pt. per 50 gals (0.25% v/v).  Use of crop oil concentrate is not advised since it may injure flowers and foliage.  For repeat applications, make on a minimum of a 14 day interval.  <b>Restrictions:</b> <ul style="list-style-type: none"> <li>• Must not be applied to non-bearing food crops which are grown for root stock.</li> <li>• Sugar Maples cannot be tapped for syrup within one year of application.</li> <li>• <b>DO NOT</b> make aerial applications to tree fruits and tree nuts.</li> <li>• If AGH19012 is applied as a spot treatment to non-bearing food crops</li> <li>• <b>DO NOT</b> exceed the maximum rate allowed on a “per acre” basis.</li> <li>• <b>DO NOT</b> apply more than 8 fl. oz./A (0.125 lb. ai/A) in a single application.</li> <li>• <b>DO NOT</b> exceed four applications per acre per year.</li> <li>• <b>DO NOT</b> apply more than 32 fl. oz./A (0.50 lb. ai/A) per year.</li> <li>• <b>DO NOT</b> make repeat applications less than 14-days apart.</li> </ul>
Apples	<i>Malus 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 dulcis</i>		
Filbert	<i>Corylus maxima</i>		
Pecan	<i>Carya illinoensis</i>		
Pistachio	<i>Pistacia vera</i>		
Walnut	<i>Juglans spp.</i>		

## CONIFER TREES USE DIRECTIONS

AGH19012 can be used to control labeled grasses in Christmas tree farms, conifer nurseries, and conifer plantations (but not in forests).

TABLE 23: CONIFER TREES		Use Rate/ Acre	Special Use Instructions/Restrictions
Crops			
Common Name	Scientific Name		
Arborvitae, American	<i>Thuja occidentalis</i>	6 - 16 fl. oz. 0.094 - 0.25 lb. ai)	Add a non-ionic surfactant containing at least 80% active ingredient at the rate of 1 pt. per 50 gals (0.25% v/v) or Crop Oil Concentrate or Methylated Seed Oil at 1 qt./A or 1% v/v.  For repeat applications, make on a minimum of a 14-day interval.  <b>Restrictions:</b> <ul style="list-style-type: none"> <li>• <b>DO NOT</b> apply more than 16 fl. oz./A (0.25 lb. ai/A) in a single application.</li> <li>• <b>DO NOT</b> apply more than 32 fl. oz./A (0.50 lb. ai/A) per year.</li> <li>• <b>DO NOT</b> exceed four 6 - 8 fl. oz./A (0.094 - 0.125 lb. ai/A) applications per year, three 8 - 10 fl. oz./A (0.125 - 0.156 lb. ai/A) applications per year or two 10 - 16 fl. oz./A (0.156 - 0.25 lb. ai/A) applications per year.</li> <li>• <b>DO NOT</b> make repeat applications less than 14-days apart.</li> </ul>
Cedars	<i>Cedrus spp.</i>		
Cypress	<i>Taxodium spp.</i>		
Douglas Fir	<i>Pseudotsuga menziesii</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 USE DIRECTIONS

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.

### Restrictions

- **DO NOT** apply more than 16 fl. oz./A (0.25 lb. ai/A) in a single application.
- **DO NOT** apply more than 32 fl. oz./A (0.50 lb. ai/A) per year.
- **DO NOT** exceed four 6 - 8 fl. oz./A (0.094 - 0.125 lb. ai/A) applications per year, three 8 - 10 fl. oz./A (0.125 - 0.156 lb. ai/A) applications per year or two 10 - 16 fl. oz./A (0.156 - 0.25 lb. ai/A) applications per year.
- **DO NOT** make repeat applications less than 14-days apart.
- **DO NOT** plant any crop for 30 days following application unless clethodim is registered for use on that crop.

<b>TABLE 24: GRASS SUPPRESSION NON-CROP AREAS AGH19012</b>			
<b>Grass Species</b>	<b>Weed Stage</b>	<b>Use Rate/ Acre</b>	<b>Special Instructions/Restrictions</b>
Annual and perennial grasses that exceed height claimed for control in Table 2 "Annual Grasses" and Table 6 "Perennial Grasses".	Up to and including grasses in the seed head stage	12 - 16 fl. oz. (0.188 - 0.25 lb. ai)	Add a crop oil concentrate at 1 qt./A by ground to the fished spray volume.  <b>Restrictions:</b> <ul style="list-style-type: none"> <li>• <b>DO NOT</b> apply more than 16 fl. oz./A (0.25 lb. ai/A) in a single application.</li> <li>• <b>DO NOT</b> apply more than 32 fl. oz./A (0.50 lb. ai/A) per year.</li> <li>• <b>DO NOT</b> make repeat applications less than 14-days apart.</li> <li>• <b>DO NOT</b> plant any crop for 30 days following application unless clethodim is registered for use on that crop.</li> <li>• <b>DO NOT</b> apply as part of a tank mixture when applying AGH19012 for grass suppression.</li> </ul>

### **FALLOW LAND USE DIRECTIONS**

AGH19012 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 only to actively growing grasses when the first grass reaches the specified weed height as specified in Table 2 "Annual Grasses" and Table 6 "Perennial Grasses". Annual grasses which emerge after the AGH19012 application will not be controlled, and a second application may be necessary. The control of perennial grasses may require more than one application in non-tilled areas.

Apply AGH19012 at 6 to 8 fl. oz./A (0.094 - 0.125 lb. ai/A) for annual grasses and 8 to 16 fl. oz./A (0.125 - 0.25 lb. ai/A) for perennial grasses. When both annual and perennial grasses occur in the same field, use a minimum of 8 fl. oz./A (0.125 lb. ai/A) AGH19012. When both grass and broadleaf weeds are the target pest, AGH19012 may be tank mixed with 2,4-D ester or dicamba for broad-spectrum control.

Use a minimum spray volume of 15 gals./A for ground applications and 5 gals./A for aerial applications.

**Restrictions:**

- **DO NOT** apply more than 16 fl. oz./A (0.25 lb. ai/A) in a single application.
- **DO NOT** apply more than 32 fl. oz./A (0.50 lb. ai/A) per year.
- **DO NOT** exceed four 6 - 8 fl. oz./A (0.094 - 0.125 lb. ai/A) applications per year, three 8 - 10 fl. oz./A (0.125 - 0.156 lb. ai/A) applications per year or two 10 - 16 fl. oz./A (0.156 - 0.25 lb. ai/A) applications per year.
- **DO NOT** make repeat applications less than 14-days apart.
- **DO NOT** plant any crop for 30 days after application unless clethodim is registered for use in that crop.
- **DO NOT** apply to grasses that have tillered, formed seedheads or exceeded specified growth stage.
- **DO NOT** use flood jet nozzles.
- **DO NOT** apply to drought-stressed grasses.
- **DO NOT** mow area for two weeks prior to or after AGH19012 application.

TABLE 25: AGH19012 IN TANK MIXES TO CONTROL ANNUAL AND PERENNIAL GRASSES IN FALLOW LAND				
Product	Application Rates/Acre <sup>(1)</sup>		Crop Oil Concentrate <sup>(2)</sup>	
	Annual Grasses	Perennial Grasses	Ground	Air
AGH19012 + 2,4-D ester or Dicamba	6 - 8 fl. oz. (0.094 - 0.125 lb. ai) + Refer to the 2,4-D ester or Dicamba label for use rate	8 - 16 fl. oz. (0.125 - 0.25 lb. ai) + Refer to the 2,4-D ester or Dicamba label for use rate	1% v/v	

(1) Refer to AGH19012 label for weed height and species control. Review the dicamba and 2,4-D labels for crop restrictions, use rates and weeds controlled.

(2) Always use a crop oil concentrate or methylated seed oil containing at least 15% emulsifier at the listed rate (but not less than 1 pt./A) in the finished spray volume.

**AGH19012 FOR THE CONTROL AND/OR SUPPRESSION OF TALL FESCUE IN NATIVE PRAIRIE WARM-SEASON GRASS RESTORATION PROJECTS**

Burn or mow fields a minimum of three 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. Apply in a minimum of 15 to 20 gallons of water per acre at a spray pressure of 40 to 60 PSI at the nozzle. Use flat fan or hollow cone nozzles. Apply only to fields that have warm-season grasses established for two years. Applications of AGH19012 to emerged warm-season grasses may cause injury.

AGH19012 applications are most effective if applied when average nighttime temperatures are consistently greater than or equal to 47°F.

TABLE 26: AGH19012 FOR THE CONTROL AND/OR SUPPRESSION OF TALL FESCUE IN NATIVE PRAIRIE WARM-SEASON GRASS RESTORATION PROJECTS				
AGH19012 Rate/Acre	Grass Weeds Controlled/Suppressed		Weed Stages	Adjuvant
	Common Name	Scientific Name		
10 to 12 fl. oz. (0.156 - 0.188 lb. ai)	Tall Fescue	<i>Festuca arundinacea</i>	4 to 6 inches (40 to 60% green-up)	AGH19012 must be applied with crop oil concentrate at 1 qt./A, plus a spray grade ammonium sulfate at 2.5 to 4 lbs./A.  Thoroughly mix spray grade ammonium sulfate in water, add AGH19012, then add crop oil concentrate.

**Restrictions:**

- **DO NOT** mow area for two weeks after the AGH19012 application.
- **DO NOT** use flood jet nozzles.
- **DO NOT** apply 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 in that crop.

## AGH19012 FOR THE SUPPRESSION OF TALL FESCUE SEED-HEADS IN NON-PRODUCING AGRICULTURAL AREAS

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. Use flat fan or hollow cone nozzles. **DO NOT** use flood nozzles.

2,4-D ester may be added to this tank mix for broadleaf control (see the 2,4-D ester label for weeds controlled).

TABLE 27: AGH19012 FOR THE SUPPRESSION OF TALL FESCUE SEED-HEADS IN NON-PRODUCING AGRICULTURAL AREAS				
AGH19012 Rate/Acre	Grass Weeds Suppressed		Application Timing	Adjuvant
	Common Name	Scientific Name		
1 ½ to 2 fl. oz./A (0.0235 - 0.0312 lb. ai)  Use the higher rate if less tall fescue green matter is present.	Tall Fescue Seed-Heads	<i>Festuca arundinacea</i>	50 to 90% Tall Fescue green-up	AGH19012 must be applied with crop oil concentrate at 1 qt./A, plus a spray grade ammonium sulfate at 2.5 to 4 lbs./A.  Thoroughly mix spray grade ammonium sulfate in water, add AGH19012, then add crop oil concentrate.
<b>Restrictions:</b> <ul style="list-style-type: none"> <li>• <b>DO NOT</b> mow area for two weeks after the AGH19012 application.</li> <li>• <b>DO NOT</b> graze treated fields or feed treated forage and or hay to livestock.</li> <li>• <b>DO NOT</b> plant any crop for 30 days after application, unless clethodim is registered for use in that crop.</li> </ul>				

### DIRECTIONS FOR USE IN GLYPHOSATE RESISTANT FIELD CORN (BURNDOWN)

AGH19012 can be used for control of existing stand of glyphosate resistant field corn or volunteer glyphosate resistant field corn prior to replanting field corn. Care must be taken to avoid in-field boom (spray) overlaps or excessive crop injury may occur. To control the existing stand, replant no sooner than 6 days after application

Adjuvant Rate : COC/MSO at 1% v/v plus AMS at 2.5 to 4 lbs./A or NIS at 0.25% v/v

TABLE 28: GLYPHOSATE RESISTANT FIELD CORN (BURNDOWN)		
Grass Species	Weed size (inches)	AGH19012 Rate when applied alone or with glyphosate
Field Corn	Up to 12	3 fl. oz./A (0.047 lb. ai/A)
<b>Restrictions:</b> <ul style="list-style-type: none"> <li>• <b>DO NOT</b> apply more than 3 fl. oz./A (0.047 lb. ai/A) in a single application.</li> <li>• <b>DO NOT</b> make more than one (1) application per year.</li> <li>• <b>DO NOT</b> exceed 3 fl. oz./A (0.047 lb. ai/A) per year.</li> </ul>		

## DIRECTIONS FOR USE IN ORNAMENTALS

For ornamental plant uses, AGH19012 can be used to control labeled grass weeds in greenhouses, lathhouses, shadehouses, and around outdoor ornamentals, including nurseries, parks, roadside plantings, and structure landscapes.

**IMPORTANT:** AGH19012 successfully controls weeds in newly transplanted and established non-grassy ornamentals. Plant sensitivity to AGH19012 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 advised that the user determine if herbicide can be used safely on a few plants prior to widespread application. Neither the seller nor the manufacturer of AGH19012 have investigated the safety factor to ornamental plants not listed on the label.

The following plants have shown a non-sensitivity for AGH19012 applications:

<b>ORNAMENTAL TREES</b>	
<b>Common Name</b>	<b>Scientific Name</b>
Alder, red	<i>Alnus oregona</i>
Ash	<i>Fraxinus spp.</i>
Basswood	<i>Tilia spp.</i>
Birch, European white	<i>Betula pendula</i>
Birch, river	<i>Betula nigra</i>
Birch, white	<i>Betula papyrifera</i>
Crabapple, flowering	<i>Malus halliana</i>
Dogwood, flowering	<i>Cornus, florida</i>
Golden chain tree	<i>Laburnum anagyroides</i>
Maples	<i>Acer spp.</i>
Mulberry, white	<i>Morus alba</i>
Oaks	<i>Quercus spp.</i>
Olive, wild	<i>Elaeagnus angustifolia</i>
Redbud	<i>Cercis canadensis</i>
Sweet gum, American	<i>Liquidambar styraciflua</i>

<b>GARDEN FLOWERS AND PLANTS</b>	
<b>Common Name</b>	<b>Scientific Name</b>
Ageratum	<i>Ageratum spp.</i>
Alyssum*, Sweet	<i>Lobularia maritima</i>
Asparagus fern	<i>Asparagus setaceus</i>
Bleeding heart	<i>Dicentra spectabilis</i>
Cast iron plant	<i>Aspidistra elatior</i>
Chrysanthemum	<i>Chrysanthemum spp.</i>
Cinquefoil	<i>Potentilla spp.</i>
Coleus	<i>Coleus spp.</i>
Coralbells	<i>Heuchera sanguinea</i>
Cranesbill	<i>Geranium spp.</i>
Dahlia	<i>Dahlia spp.</i>
Daisy, Trailing African	<i>Osteospermum fruticosum</i>

<b>GARDEN FLOWERS AND PLANTS</b>	
<b>Common Name</b>	<b>Scientific Name</b>
Daylily	<i>Hemerocallis spp.</i>
Dusty miller	<i>Senecio cineraria</i>
Euonymus	<i>Euonymus spp.</i>
Gazania	<i>Gazania spp.</i>
Geranium, house	<i>Pelargonium hortorum</i>
Heather, False	<i>Cuphea hyssopifolia</i>
Hosta	<i>Hosta fortunei</i>
Iris	<i>Iris spp.</i>
Jasmine tobacco	<i>Nicotiana alata</i>
Loosestrife	<i>Lythrum salicaria</i>
Marigold	<i>Tagetes spp.</i>
Partridgeberry	<i>Mitchella repens</i>
Petunia*	<i>Petunia hybrida</i>
Phlox	<i>Phlox spp.</i>
Pinks	<i>Dianthus spp.</i>
Portulaca	<i>Portulaca grandiflora</i>
Salvia	<i>Salvia spp.</i>
Saxifrage	<i>Saxifraga spp.</i>
Sedum	<i>Sedum spp.</i>
Selloum	<i>Philodendron selloum</i>
Snapdragon*	<i>Antirrhinum majus</i>
Sweet flag	<i>Acorus gramineus</i>
Tickseed	<i>Coreopsis grandiflora</i>
Touch-me-not	<i>Impatiens spp.</i>
Verbena	<i>Verbena spp.</i>
Violet	<i>Viola spp.</i>
Yarrow, common	<i>Achillea millefolium</i>
Zinnia	<i>Zinnia elegans</i>

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

<b>GROUND COVERS</b>	
<b>Common Name</b>	<b>Scientific Name</b>
Bugleweed, carpet	<i>Ajuga reptant</i>
Ivy, English	<i>Hedera helix</i>
Japanese spurge	<i>Pachysandra terminalis</i>
Lilyturf	<i>Liriope muscari</i>
Moneywort	<i>Lysimachia nummularia</i>
Mondo grass, white	<i>Ophiopogon jaburan</i>
Mondo grass, dwarf	<i>Ophiopogon japonicus</i>
Periwinkle, common	<i>Vinca minor</i>

<b>SHRUBS</b>	
<b>Common Name</b>	<b>Scientific Name</b>
Abelia	<i>Abelia spp.</i>
Anise, purple	<i>Illicium floridanum</i>
Aucuba	<i>Aucuba spp.</i>
Azalea*	<i>Rhododendron spp.</i>
Bamboo	<i>Bambusa spp.</i>
Barberry, Japanese	<i>Berberis thunbergii</i>
Barberry, Magellan	<i>Berberis buxifolia</i>
Bayberry	<i>Myrica pensylvanica</i>
Bottlebrush	<i>Callistemon citrinus</i>
Boxwood, Common	<i>Buxus sempervirens</i>
Camellia, Common	<i>Camellia japonica</i>
Candytuft	<i>Iberis sempervirens</i>
Cleyera	<i>Cleyera japonica</i>
Coralberry	<i>Ardisia crenata</i>
Crape myrtle	<i>Lagerstroemia indica</i>
Coyote brush	<i>Baccharis pilularis</i>
Fig, creeping	<i>Ficus pumila</i>
Gardenia	<i>Gardenia spp.</i>
Holly	<i>Ilex spp.</i>
Honeysuckle	<i>Lonicera pileata</i>
Indian hawthorn	<i>Raphiolepis indica</i>
Jasmine	<i>Jasminum spp.</i>
Jasmine, Asiatic	<i>Trachelospermum asiaticum</i>
Jasmine, Star	<i>Trachelospermum jasminoides</i>
Juniper	<i>Juniperus spp.</i>
Lantana	<i>Lantana spp.</i>
Nandina*, Bamboo Heavenly	<i>Nandina domestica</i>
Oleander, common	<i>Nerium oleander</i>
Oregon grape	<i>Mahonia aquifolium</i>
Photinia	<i>Photinia spp.</i>
Pittosporum	<i>Pittosporum spp.</i>
Podocarpus	<i>Podocarpus spp.</i>
Privet	<i>Liqustrum spp.</i>
Pyracantha	<i>Pyracantha spp.</i>
Rhododendron	<i>Rhododendron spp.</i>
Rose	<i>Spiraea bumalda</i>
Sweet olive	<i>Osmanthus fragrans</i>
Viburnum	<i>Viburnum tinus</i>



SHRUBS	
Common Name	Scientific Name
Wisteria	<i>Wisteria spp.</i>
Yellow sage/Shrub Verbena	<i>Lantana camara</i>

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

### ANNUAL GRASSES IN ORNAMENTALS

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

Add a non-ionic surfactant containing at least 80% active ingredient at the rate of 1 pt. per 50 gals. (0.25% v/v). Use of crop oil concentrate is not advised since it may injure flowers and foliage.

For repeat applications, make on a minimum of a 14-day interval.

#### Restrictions:

- Must not be applied to non-bearing food crops fruit which are grown for root stock.
- **DO NOT** exceed the high rate listed below in Table 29 "Annual Grasses in Ornamentals" in a single application.
- **DO NOT** exceed four 6 - 8 fl. oz./A (0.094 - 0.125 lb. ai/A) applications per year, three 8 - 10 fl. oz./A (0.125 - 0.156 lb. ai/A) applications per year or two 10 - 16 fl. oz./A (0.156 - 0.25 lb. ai/A) applications per year.
- **DO NOT** apply more than 32 fl. oz./A (0.50 lb. ai/A) per year.
- **DO NOT** make repeat applications less than 14-days apart.

Annual Grass Species	Scientific Name	Weed* Height (inches)	Rate per Acre <sup>(1)</sup>	High Rate per Acre <sup>(2)</sup>
Barnyardgrass	<i>Echinochloa crus-galli</i>	2 - 8	8 fl. oz (0.125 lb. ai)	16 fl. oz (0.25 lb. ai)
Bluegrass	<i>Poa annua</i>	to 4-leaf	6 fl. oz. (0.094 lb. ai)	16 fl. oz (0.25 lb. ai)
Broadleaf Signalgrass	<i>Brachiaria platyphylla</i>	2 - 6	8 fl. oz (0.125 lb. ai)	16 fl. oz (0.25 lb. ai)
Brome				
California	<i>Bromus carinatus</i>	2 - 6	8 fl. oz (0.125 lb. ai)	16 fl. oz (0.25 lb. ai)
Cheatgrass	<i>Bromus secalinus</i>	2 - 6	8 fl. oz (0.125 lb. ai)	16 fl. oz (0.25 lb. ai)
Downy	<i>Bromus tectorum</i>	2 - 6	8 fl. oz (0.125 lb. ai)	16 fl. oz (0.25 lb. ai)
Ripgut	<i>Bromus diandrus</i>	2 - 6	8 fl. oz (0.125 lb. ai)	16 fl. oz (0.25 lb. ai)
Canarygrass	<i>Phalaris canariensis</i>	1 - 4	8 fl. oz (0.125 lb. ai)	16 fl. oz (0.25 lb. ai)
Crabgrass				
Hairy	<i>Digitaria adscendens</i>	2 - 6**	8 fl. oz (0.125 lb. ai)	16 fl. oz (0.25 lb. ai)
Large	<i>Digitaria sanguinalis</i>	2 - 6**	8 fl. oz (0.125 lb. ai)	16 fl. oz (0.25 lb. ai)
Smooth	<i>Digitaria ischaemum</i>	2 - 6**	8 fl. oz (0.125 lb. ai)	16 fl. oz (0.25 lb. ai)
Southern	<i>Digitaria ciliaris</i>	2 - 6**	8 fl. oz (0.125 lb. ai)	16 fl. oz (0.25 lb. ai)
Crowfootgrass	<i>Dactyloctenium aegyptium</i>	2 - 6**	8 fl. oz (0.125 lb. ai)	16 fl. oz (0.25 lb. ai)
Fall Panicum	<i>Panicum dichotomiflorum</i>	2 - 8	8 fl. oz (0.125 lb. ai)	16 fl. oz (0.25 lb. ai)
Field Sandbur	<i>Cenchrus incertus</i>	2 - 6	8 fl. oz (0.125 lb. ai)	16 fl. oz (0.25 lb. ai)

**TABLE 29: ANNUAL GRASSES IN ORNAMENTALS**

Annual Grass Species	Scientific Name	Weed* Height (inches)	Rate per Acre <sup>(1)</sup>	High Rate per Acre <sup>(2)</sup>
Foxtail				
Giant	<i>Setaria faberi</i>	2 - 12	8 fl. oz (0.125 lb. ai)	16 fl. oz (0.25 lb. ai)
Green	<i>Setaria viridis</i>	2 - 8	8 fl. oz (0.125 lb. ai)	16 fl. oz (0.25 lb. ai)
Yellow	<i>Setaria glauca</i>	2 - 8	8 fl. oz (0.125 lb. ai)	16 fl. oz (0.25 lb. ai)
Foxtail Barley	<i>Hordeum jubatum</i>	2 - 6	8 fl. oz (0.125 lb. ai)	16 fl. oz (0.25 lb. ai)
Goosegrass	<i>Eleusine indica</i>	2 - 6**	8 fl. oz (0.125 lb. ai)	16 fl. oz (0.25 lb. ai)
Itchgrass	<i>Rottboellia conchin</i>	2 - 6	8 fl. oz (0.125 lb. ai)	16 fl. oz (0.25 lb. ai)
Junglerice	<i>Echinochloa colona</i>	2 - 6	8 fl. oz (0.125 lb. ai)	16 fl. oz (0.25 lb. ai)
Lovegrass (Stinkgrass)	<i>Eragrostis cilianensis</i>	2 - 6	8 fl. oz (0.125 lb. ai)	16 fl. oz (0.25 lb. ai)
Rabbitsfootgrass	<i>Polypogon monspeliensis</i>	1 - 4	8 fl. oz (0.125 lb. ai)	16 fl. oz (0.25 lb. ai)
Red Rice	<i>Oryza sativa</i>	1 - 3	8 fl. oz (0.125 lb. ai)	16 fl. oz (0.25 lb. ai)
Ryegrass				
Hardy	<i>Lolium remotum</i>	2 - 6	8 fl. oz (0.125 lb. ai)	16 fl. oz (0.25 lb. ai)
Italian	<i>Lolium multiflorum</i>	2 - 6	8 fl. oz (0.125 lb. ai)	16 fl. oz (0.25 lb. ai)
Seedling Johnsongrass	<i>Sorghum halepense</i>	4 - 10	8 fl. oz (0.125 lb. ai)	16 fl. oz (0.25 lb. ai)
Shattercane	<i>Sorghum bicolor</i>	6 - 18	8 fl. oz (0.125 lb. ai)	16 fl. oz (0.25 lb. ai)
Southwestern Cupgrass	<i>Eriochloa gracillis</i>	2 - 6	8 fl. oz (0.125 lb. ai)	16 fl. oz (0.25 lb. ai)
Sprangletop				
Amazon	<i>Leptochloa panicoides</i>	2 - 6	8 fl. oz (0.125 lb. ai)	16 fl. oz (0.25 lb. ai)
Bearded	<i>Leptochloa fascicularis</i>	2 - 6	8 fl. oz (0.125 lb. ai)	16 fl. oz (0.25 lb. ai)
Mexican	<i>Leptochloa uninervia</i>	2 - 6	8 fl. oz (0.125 lb. ai)	16 fl. oz (0.25 lb. ai)
Red	<i>Leptochloa filiformis</i>	2 - 6	8 fl. oz (0.125 lb. ai)	16 fl. oz (0.25 lb. ai)
Texas Panicum	<i>Panicum texanum</i>	2 - 6	8 fl. oz (0.125 lb. ai)	16 fl. oz (0.25 lb. ai)
Volunteer Cereals				
Barley	<i>Hordeum vulgare</i>	2 - 6	8 fl. oz (0.125 lb. ai)	16 fl. oz (0.25 lb. ai)
Oats	<i>Avena sativa</i>	2 - 6	8 fl. oz (0.125 lb. ai)	16 fl. oz (0.25 lb. ai)
Rye	<i>Secale cereale</i>	2 - 6	8 fl. oz (0.125 lb. ai)	16 fl. oz (0.25 lb. ai)
Wheat	<i>Triticum aestivum</i>	2 - 6	8 fl. oz (0.125 lb. ai)	16 fl. oz (0.25 lb. ai)
Volunteer Corn	<i>Zea mays</i>	4 - 12	6 fl. oz. (0.094 lb. ai)	8 fl. oz. (0.125 lb. ai)
Volunteer Corn	<i>Zea mays</i>	12 - 24	8 fl. oz (0.125 lb. ai)	16 fl. oz (0.25 lb. ai)
Volunteer Grain Sorghum	<i>Sorghum bicolor</i>	8 - 12	8 fl. oz (0.125 lb. ai)	16 fl. oz (0.25 lb. ai)
Wild Oats	<i>Avena fatua</i>	2 - 6	8 fl. oz (0.125 lb. ai)	16 fl. oz (0.25 lb. ai)
Wild Proso Millet	<i>Panicum miliaceum</i>	2 - 10	8 fl. oz (0.125 lb. ai)	16 fl. oz (0.25 lb. ai)
Witchgrass	<i>Panicum capillare</i>	2 - 8	8 fl. oz (0.125 lb. ai)	16 fl. oz (0.25 lb. ai)
Woolly Cupgrass	<i>Eriochloa villosa</i>	2 - 8	8 fl. oz (0.125 lb. ai)	16 fl. oz (0.25 lb. ai)

\*Generally occurs between 3-leaf stage and tillering.

\*\*Length of lateral growth.

(1) 8 fl. oz./A (0.125 lbs. ai) = approximately 0.2 fl. oz./1000 sq. ft.

(2) 16 fl. oz./A (0.250 lbs. ai) = approximately 0.4 fl. oz./1000 sq. ft.

## PERENNIAL GRASSES IN ORNAMENTALS

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

For repeat applications, make on a minimum of a 14-day interval.

Add a non-ionic surfactant containing at least 80% active ingredient at the rate of 1 pt. per 50 gals. (0.25% v/v). Use of crop oil concentrate is not advised since it may injure flowers and foliage.

### Restrictions:

- Must not be applied to non-bearing food crops fruit which are grown for root stock.
- **DO NOT** exceed the high rate listed below in Table 30 "Perennial Grasses in Ornamentals" in a single application.
- **DO NOT** exceed four 6 - 8 fl. oz./A (0.09 - 0.125 lb. ai/A) applications per year, three 8 - 10 fl. oz./A (0.125 - 0.156 lb. ai/A) applications per year or two 10 - 16 fl. oz./A (0.156 - 0.25 lb. ai/A) applications per year.
- **DO NOT** apply more than 32 fl. oz./A (0.50 lb. ai/A) per year.
- **DO NOT** make repeat applications less than 14-days apart.

TABLE 30: PERENNIAL GRASSES IN ORNAMENTALS				
Perennial Grass Species	Scientific Name	Weed Height (inches)	Rate per Acre <sup>(1)</sup>	High Rate per Acre <sup>(2)</sup>
Bermudagrass	<i>Cynodon dactylon</i>			
First Application		3 (or up to 6" runners)	8 fl. oz (0.125 lb. ai)	16 fl. oz. (0.025 lb. ai)
Repeat Application(s) (if regrowth occurs)		3 (or up to 6" runners)	8 fl. oz (0.125 lb. ai)	16 fl. oz. (0.025 lb. ai)
Quackgrass	<i>Elytrigia repens</i>			
First Application		4-8	8 fl. oz (0.125 lb. ai)	16 fl. oz. (0.025 lb. ai)
Repeat Application(s) (if regrowth occurs)		4-8	8 fl. oz (0.125 lb. ai)	16 fl. oz. (0.025 lb. ai)
Rhizome Johnsongrass	<i>Sorghum halepense</i>			
First Application		12-24	8 fl. oz (0.125 lb. ai)	16 fl. oz. (0.025 lb. ai)
Repeat Application(s) (if regrowth occurs)		6-18	6 fl. oz. (0.094 lb. ai)	8 fl. oz. (0.125 lb. ai)
Wirestem Muhly	<i>Muhlenbergia frondosa</i>			
First Application		4-8	8 fl. oz (0.125 lb. ai)	16 fl. oz. (0.025 lb. ai)
Repeat Application(s) (if regrowth occurs)		4-8	8 fl. oz (0.125 lb. ai)	16 fl. oz. (0.025 lb. ai)

(1) 8 fl. oz./A (0.125 lbs. ai) = approximately 0.2 fl. oz./1000 sq. ft.

(2) 16 fl. oz./A (0.250 lbs. ai) = approximately 0.4 fl. oz./1000 sq. ft.

## STORAGE AND DISPOSAL

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

**Pesticide Storage:** Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

Handle and open container in a manner as to prevent spillage. **DO NOT** walk through spilled material. Dispose of pesticide as directed below. In spill or leak incidents, keep unauthorized people away.

**Pesticide Disposal:** Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

**Container Handling:** Follow the container handling instructions appropriate to container size and type.

**Nonrefillable container equal to or less than 5 gallons:** **DO NOT** reuse or refill this container. Clean container 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  $\frac{1}{4}$  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. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

**Nonrefillable container greater than 5 gallons:** **DO NOT** reuse or refill this container. Clean container promptly after emptying. 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 of disposal. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

**Refillable container:** 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. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

**FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident, Call:  
CHEMTREC 1-800-424-9300**

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If you do not agree with or do not accept any of directions for use, the warranty disclaimers, or limitations on liability, **DO NOT** use the product, and return it unopened to the Seller, and the purchase price will be refunded.

*[Note to reviewer: Any text found in brackets "[ " ]" is optional on container label.]*

*[Note to reviewer: State restrictions may not be found on the container label if the product is not registered in that associated state.]*

*[Note to reviewer: Making the product more restrictive than Federally accepted, incorporating the optional statement "Not for use in California." may be included on the container label for any use, weed or crop as determined to be necessary to procure CADPR registration.]*