



U.S. ENVIRONMENTAL PROTECTION AGENCY

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

EPA Reg. Number:

93930-27

Date of Issuance:

9/28/20

NOTICE OF PESTICIDE:

Registration  
 Reregistration  
(under FIFRA, as amended)

Term of Issuance:

Unconditional

Name of Pesticide Product:

Avalaire Imazethapyr 2 SL

Name and Address of Registrant (include ZIP Code):

Avalaire, LLC  
1204 Village Market Place, #173  
Morrisville, NC 27560

**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.

Signature of Approving Official:

Jordan Page, Acting Product Manager 24  
Fungicide Herbicide Branch, Registration Division (7505P)

Date:

9/28/20

2. Make the following label changes before you release the product for shipment:
  - Revise the EPA Registration Number to read, “EPA Reg. No. 93930-27.”
3. 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 05/07/2020

If you have any questions, please contact Manjula Unnikrishnan by phone at 703-347-8520, or via email at [Unnikrishnan.manjula@epa.gov](mailto:Unnikrishnan.manjula@epa.gov)

Enclosure

[Note to reviewer: [Text] in brackets denotes optional text].

[Note to reviewer: {Text} in braces denotes where in the final label text will appear.]

**{BOOKLET FRONT PANEL LANGUAGE}**

**GROUP 2 HERBICIDE**

# Avalaire Imazethapyr 2 SL

[Alternate Brand Name: Pannix 2 SL]

[For use on alfalfa, birdsfoot trefoil, clover, edamame, edible legumes (beans and peas), peanut, and soybean.]

**ACTIVE INGREDIENT:**

ammonium salt of imazethapyr: (±)-2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-5-ethyl-3-pyridinecarboxylic acid\* .....22.87%

**OTHER INGREDIENTS:** .....77.13%

**TOTAL:** .....100.00%

\*Equivalent to 21.6% (±)-2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-5-ethyl-3-pyridinecarboxylic acid

1 gallon contains 2.0 pounds of active ingredient as the free acid.

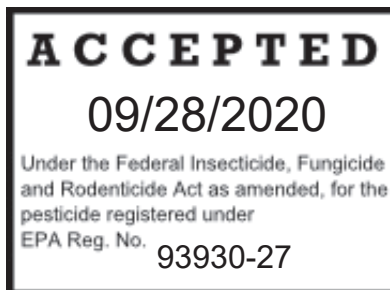
## KEEP OUT OF REACH OF CHILDREN CAUTION/PRECAUCIÓN

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

FIRST AID	
<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>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>
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact SafetyCall at <b>1-844-685-9173</b> for emergency medical treatment information.	

**For Chemical Emergency:  
Spill, Leak, Fire, Exposure, or Accident,  
Call CHEMTREC Day or Night**

**Within USA and Canada: 1-800-424-9300 or +1 703-527-3887 (collect calls accepted)**



See [below] [inside label booklet] for [additional] [First Aid,] [and] [Precautionary Statements] [and] [Directions for Use].

**EPA Reg. No. 93930-XX**

Manufactured for:  
**Avalaire, LLC**  
1204 Village Market Place, #173  
Morrisville, NC 27560

**EPA Est. No.**  
**Net Contents:**

## {LANGUAGE INSIDE BOOKLET}

### **PRECAUTIONARY STATEMENTS** **HAZARDS TO HUMANS AND DOMESTIC ANIMALS** **CAUTION**

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

#### **PERSONAL PROTECTIVE EQUIPMENT (PPE)**

##### **Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants;
- Chemical-resistant gloves, such as barrier laminate, butyl rubber  $\geq 14$  mils, nitrile rubber  $\geq 14$  mils, neoprene rubber  $\geq 14$  mils, natural rubber (includes natural rubber blends and laminates)  $\geq 14$  mils, polyethylene, polyvinyl chloride (PVC)  $\geq 14$  mils, or viton  $\geq 14$  mils;
- Shoes plus socks

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

#### **USER SAFETY RECOMMENDATIONS**

##### **Users should:**

- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove and wash contaminated clothing before reuse.
- 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** contaminate water when disposing of equipment washwater or rinsate.

#### **SURFACE WATER ADVISORY STATEMENT**

This product may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having high potential for reaching surface water via runoff for several months or more after application.

A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of imazethapyr from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall or irrigation is expected to occur within 48 hours.

#### **GROUNDWATER ADVISORY**

This chemical has properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

This product may not be mixed or loaded within 50 feet of any wells (including abandoned wells and drainage wells), sinkholes, perennial or intermittent streams and rivers, and natural or impounded lakes or reservoirs. This setback does not apply to properly capped or plugged abandoned wells and does not apply to impervious pad or properly diked mixing/loading areas.

Operations that involve mixing, loading, rinsing, or washing of this product into or from pesticide handling or application equipment or containers within 50 feet of any well are prohibited unless conducted on an impervious pad constructed to withstand the weight of the heaviest load that may be positioned on or moved across the pad. Such a pad shall be designed and maintained to contain any product spills or equipment leaks, container or equipment rinse or washwater, and rainwater that may fall on the pad. Surface water shall not be allowed to flow over or from the pad, which means the pad must be self-contained. The pad shall be sloped to facilitate material removal.

An unroofed pad shall be of sufficient capacity to contain, at a minimum, 110% of the capacity of the largest pesticide container or application equipment on the pad.

A pad that is covered by a roof of sufficient size to completely exclude precipitation from contact with the pad shall have a minimum containment capacity of 100% of the capacity of the largest pesticide container or application equipment on the pad.

Containment capacities as described above shall be maintained at all times. The above specific minimum containment capacities do not apply to vehicles when delivering pesticide shipments to the mixing/loading site. States may have in effect additional requirements regarding wellhead setbacks and operational containment.

**DO NOT** apply this product through any type of irrigation.

Product must be used in a manner which will prevent back-siphoning in wells, spills, or improper disposal of excess pesticide spray mixture.

#### **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 site. Protect the forage and habitat of non-target organisms by following label directions intended to minimize spray drift.

#### **PHYSICAL OR CHEMICAL HAZARDS**

**DO NOT** mix or allow coming in contact with oxidizing agents. Hazardous chemical reactions may occur.

### **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. This label must be in the possession of the user at the time of pesticide application.

**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.

Observe all precautions, restrictions and limitations on this label and on the labels of products used in combination with this product. **DO NOT** use this product other than in accordance with the instructions set forth on this label. The use of this product not consistent with this label may result in injury to crops. Keep containers closed to avoid spills and contamination.

#### 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 (REI). 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 **4 hours**.

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

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

- Coveralls
- Chemical-resistant gloves, such as butyl rubber  $\geq$  14 mils, or natural rubber  $\geq$  14 mils, or neoprene rubber  $\geq$  14 mils, or nitrile rubber  $\geq$  14 mils
- Shoes plus socks

#### WEED RESISTANCE MANAGEMENT

For resistance management, **Avalaire Imazethapyr 2 SL** is a Group 2 herbicide. Any weed population may contain or develop plants naturally resistant to **Avalaire Imazethapyr 2 SL** and other Group 2 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 **Avalaire Imazethapyr 2 SL** or other Group 2 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.
- Scout 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 or certified crop advisors for additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes.
- For further information or to report suspected resistance, contact an Avalaire, LLC representative at 984-465-4754.

#### **MANDATORY SPRAY DRIFT**

##### **Aerial Applications:**

- **DO NOT** release spray at a height greater than 10 ft above the ground or vegetative canopy, unless a greater application height is necessary for pilot safety.
- For applications prior to the emergence of crops and target weeds, applicators are required to use a coarse or coarser droplet size (ASABE S572.1).
- For all other applications, applicators are required to use a medium or coarser droplet size (ASABE S572.1).
- Applicators must use ½ swath displacement upwind at the downwind edge of the field.
- **DO NOT** apply when wind speeds exceed 15 mph at the application site. If the windspeed is greater than 10 mph, the boom length must be 65% or less of the wingspan for fixed wing aircraft and 75% or less of the rotor diameter for helicopters. Otherwise, the boom length must be 75% or less of the wingspan for fixed-wing aircraft and 90% or less of the rotor diameter for helicopters.
- **DO NOT** apply during temperature inversions.

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

- User must only apply with the release height recommended by the manufacturer, but no more than 3 feet above the ground or crop canopy unless making a turf, pasture, or rangeland application, in which case applicators may apply with a nozzle height no more than 4 feet above the ground.
- For applications prior to the emergence of crops and target weeds, applicators are required to use a coarse or coarser droplet size (ASABE S572.1).
- For all other applications, applicators are required to use a medium or coarser droplet size (ASABE S572.1).
- **DO NOT** apply when wind speeds exceed 15 miles per hour at the application site.
- **DO NOT** apply during temperature inversions.

##### **Boomless Ground Applications:**

- Applicators are required to use a medium or coarser droplet size (ASABE S572.1) for all applications.
- **DO NOT** apply when wind speeds exceed 15 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 NONTARGET SITES AND ENVIRONMENTAL CONDITIONS.

#### **IMPORTANCE OF DROPLET SIZE**

An effective way to reduce spray drift 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 – Groundboom**

- 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.
- Spray Nozzle - Use a spray nozzle 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 applications 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 dissipates 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.

#### **Boom-less Ground Applications:**

Setting nozzles at the lowest effective height will help to reduce the potential for spray drift.

#### **Handheld Technology Applications:**

Take precautions to minimize spray drift.

### **PRODUCT APPLICATION INSTRUCTIONS**

**Avalaire Imazethapyr 2 SL**, a soluble liquid herbicide, kills when it is taken up by foliage and/or roots of listed broadleaf and grass weeds and sedges, and is translocated rapidly to growing portions of the weeds, where weed growth is stopped. This causes vulnerable broadleaf and grass weeds to exhibit stunted or stopped growth which results in weed death or reducing weed competition with the crop. Amount of control is determined by the weed species, and the position of the weed's root system in the soil. Note that use of this product alone or in a tank mix (particularly with an organophosphate or carbamate insecticide) can cause temporary damage to crops (including temporary yellowing, or internode shortening) – any short-term injury must subside in a short amount of time (a couple of weeks). For best results, sufficient moisture is necessary, which will allow **Avalaire Imazethapyr 2 SL** to



control and suppress listed weeds and also provide residual control of germinating weeds that are vulnerable to this product. For adequate control, **Avalaire Imazethapyr 2 SL** must reach the weed germination zone, either by irrigation (overhead) or rainfall (typically sufficient to dampen soil 2 inches deep - though actual amount depends on texture of soil, content of organic matter, and current soil moisture), or by cultivation (to contain escaped weeds), if soil does not get sufficient moisture within 7 days after treatment.

**Restriction** – In the State of New York, this product is not for sale or use on Long Island

**Avalaire Imazethapyr 2 SL** can be applied as a spray, at early preplant, preplant, preemergence or at postemergence. It can be applied in conservation tillage systems, as well as conventional, minimum tillage and no-till systems

#### **Preplant, Preplant Incorporated**

- If incorporating, do so to a depth of 1 to 2 inches
- For bedded crops, incorporation can be done, to a depth of 1 to 2 inches on the surface of finished beds with PTO-driven equipment or a rolling cultivator after beds have been formed

#### **Preemergence (Surface)**

- Can be used in conventional, minimum, or no-till production systems
- Can be applied up to 45 days before planting, at planting (in all production tillage systems), or after plating (prior to crop emergence)
- For preemergence application to no-till or minimum till systems, apply **Avalaire Imazethapyr 2 SL** in at least 20 gallons of water to adequately cover vegetation (apply in more water if crop residue or vegetation is dense)
- For no-till or minimum-till systems, consider tank mixing **Avalaire Imazethapyr 2 SL** with herbicides containing the active ingredients dimethenamid-P, pendimethalin or pyroxasulfone for optimal grass control, or these already-listed herbicides along with glyphosate or 2,4-D for control of existing vegetation

#### **Postemergence**

- Can be used in conservational tillage or conventional production systems
- Make application of **Avalaire Imazethapyr 2 SL** when weeds and crops reach a height of greater than three inches (application timing is based on weed height)
- Postemergent application allows **Avalaire Imazethapyr 2 SL** to be taken up by both roots and foliage, causing vulnerable broadleaf and grass weeds to exhibit stunted growth or die, and also provides residual control of vulnerable weeds that emerge after product is applied
- Follow a postemergent application of **Avalaire Imazethapyr 2 SL** with a cultivation within 7 to 10 days after application, to improve residual weed control, particularly if soil is dry.
- For best weed control activity, mix **Avalaire Imazethapyr 2 SL** with a nitrogen-based fertilizer, and a surfactant or crop oil concentrate. See ADDITIVES section for specific instructions.
- **Avalaire Imazethapyr 2 SL** effectiveness is adversely impacted by temperatures below 50°F, because uptake and translocation are slowed. If temperature has been below 50° for more than 10 hours, efficacy is enhanced if the application of **Avalaire Imazethapyr 2 SL** is deferred for 48 hours.
- Make application 1 hour prior to irrigation (overhead) or rainfall.

### **MIXING INSTRUCTIONS**

**Avalaire Imazethapyr 2 SL** can be used alone, with adjuvants, fertilizers, and or other herbicide or pesticide tank mix partners.

A general mixing order for a spray solution containing **Avalaire Imazethapyr 2 SL** is as follows:

- Into the spray tank, add water, until tank is 1/2 full
- Add any products in a water soluble packet, and mix until blended
- Add any dry products (dispersible granules –DG’s, dry flowables – DF’s, wettable powders – WP’s) not in a water soluble packet and liquid flowables and mix until blended

- Add aqueous solution products (including **Avalaire Imazethapyr 2 SL**) and mix until blended
- Add emulsifiable concentrate – EC – products and mix until blended
- Add adjuvants (oil-based or surfactants) and mix until blended
- Add liquid fertilizers and mix until blended
- Continue mixing, and add water to the tank until filled

Use a calibrated measuring device for calculating proper amounts for **Avalaire Imazethapyr 2 SL** and other ingredients. Be sure that spray equipment is thoroughly cleaned before and after spraying **Avalaire Imazethapyr 2 SL**. Use cleaning instructions found on labeling for any prior products used in spray tank, and clean with water after using **Avalaire Imazethapyr 2 SL**. This will help avoid injury to sensitive crops and nontarget plants.

**ADDITIVES**

**Adjuvants and Fertilizers** - When applying **Avalaire Imazethapyr 2 SL** in a postemergent application, adjuvant (crop oil concentrate or surfactant) and a liquid fertilizer (nitrogen-based) are required to be added to the spray mixture.

**DO NOT** use fertilizer solution in the State of California.

<b>Adjuvants</b>		
Adjuvant Type	Amount Used	Notes
Crop Oil Concentrate	1.25% v/v (1.25 gallons per 100 gal spray solution)	Petroleum-based or vegetable-seed based crop oil concentrate can be used
Methylated Seed Oil	1% v/v (1 gallon per 100 gal spray solution)	For use on weeds under stress (moisture- or temperature-)
Surfactant	0.25% v/v (1 qt. per 100 gal spray solution)	Nonionic (at least 80% active), dry or organosilicone surfactants can be used

<b>Fertilizer</b>		
Fertilizer Type	Amount Used	Notes
Nitrogen Based Liquid Fertilizer	1.25 to 2.5 gal. per 100 gal spray solution	Can choose nitrogen fertilizers such as 10-34-0, 28% N or 32% N Higher rate for use on weeds under stress (moisture- or temperature-)
Spray Grade Ammonium Sulfate	12 to 15 lbs. per 100 gal spray solution	

For areas south of I-40 (except NM, OK and TX), a fertilizer solution is not required for postemergent applications.

Adjuvant and Fertilizer Restrictions:

- **DO NOT** use fertilizer solution in the State of California
- **DO NOT** use crop oil concentrate when applying to edible legume vegetable crops

**Tank Mixes** – When tank mixing **Avalaire Imazethapyr 2 SL** with other herbicides or pesticides, follow all label instructions, restrictions and precautions on all tank mix partners. **DO NOT** go beyond any maximum mandated application rates and make sure to observe the more limiting precautions on any tank mix partner label. See crop-specific instructions for more information on tank mixing.

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.

**Avalaire Imazethapyr 2 SL** can also be mixed directly into liquid fertilizer - solo, or with tank mix partners such as dimethenamid-P, pendimethalin or trifluralin (soybean only) when applying directly to soil. Apply by ground in at

least 20 gallons of liquid fertilizer. Test for compatibility prior to mixing **Avalaire Imazethapyr 2 SL** and any tank mix partners with liquid fertilizer, and be sure to follow all label instructions, restrictions and precautions on all tank mix partners.

### SPRAYING INSTRUCTIONS

**Aerial Application** – Application of **Avalaire Imazethapyr 2 SL** can be made aerially to listed crops, unless otherwise specified in this label. When applying aerially, observe the following:

- Apply in at least 5 gallons of water per acre
- Make certain that application equipment is correctly calibrated
- When applying postemergence, include fertilizer and adjuvant in the spray mix (as indicated in **ADDITIVES** section of this label)

**Ground Application** – When applying by ground, observe the following

- Apply in at least 10 gallons of water (20 gallons to minimum till or no till systems) per acre – if vegetation or crop residue is dense use a greater spray volume
- Make certain that application equipment is correctly calibrated
- For optimum results, maintain a spray pressure of 20 to 40 PSI
- Make certain that weed foliage is adequately covered (adjust boom height as necessary)
- For postemergent applications use flat fan nozzle tips
- **DO NOT** overlap sprays

### REPLANTING

A field that has been treated with **Avalaire Imazethapyr 2 SL** can be replanted to any crop that is on this product label. See crop use directions for more information on replanting a specific crop. Prior to replanting, soil needs to be reworked to a depth greater than the treated zone. **DO NOT** make an additional application of **Avalaire Imazethapyr 2 SL** to replanted crops.

### ROTATIONAL CROPS

Observe the following plant back intervals for rotational crops that are planted in fields previously treated with **Avalaire Imazethapyr 2 SL**. Crop injury can occur if these intervals are not observed. Pay attention to endnotes appearing after rotational crop table, and **Additional Rotational Crop Exceptions** section, following this table.

CROPS	PLANT-BACK INTERVAL (months)
Clearfield corn hybrids (resistant to imazethapyr) Edamame Lima Bean Peanut Peas Southern Pea Soybean	0
Snap Bean	2
Wheat (Clearfield and non-Clearfield, east of Interstate I-35)	3
Alfalfa Barley (DE, IN, KY, MD, NJ, OH, PA, VA) Birdsfoot Trefoil Clover Edible beans (other than lima beans) Rye (except in ND and MN north of Hwy #210) Wheat (Clearfield and non-Clearfield, West of Interstate I-35) <sup>1</sup>	4
Field corn (incl. grown for seed) (except in AZ, HI, ID, MT, NV, OR, UT, WA,	8 1/2

CROPS	PLANT-BACK INTERVAL (months)
WY)	
Barley (except in DE, IN, KY, MD, NJ, ND, OH, PA, VA) Field corn (incl. grown for seed) (AZ, HI, ID, MT, NV, OR, UT, WA, WY) Cotton (NC, SC, VA) <sup>2</sup> Tobacco	9 1/2
Barley (in ND) Cotton <sup>3</sup> Lettuce Oat Popcorn <sup>4,5</sup> Rye (in ND and MN north of Hwy #210) Safflower Sorghum Sunflower Sweet Corn <sup>4,5</sup> Vegetable Crops: bahiagrass, cabbage, cantaloupe, cucumber, Irish potato, onion, sweet pepper transplants, sweet potato transplants, tomato transplants, and watermelon (in AL, DE, FL, GA, IN, KY, MD, NJ, NC, PA, SC, VA)	18
Flax Potato (incl. Irish potato not grown in AL, DE, FL, GA, IN, KY, MD, NJ, NC, PA, SC, VA)	26
All other crops <sup>6,7</sup> (including bahiagrass, cabbage, cantaloupe, cucumber, onion, sweet pepper transplants, sweet potato transplants, tomato transplants, watermelon not grown in AL, DE, FL, GA, IN, KY, MD, NJ, NC, PA, SC, VA)	40

<sup>1</sup> Wheat – Non Clearfield Wheat in ND – If rain and irrigation from time of **Avalaire Imazethapyr 2 SL** application up to time of wheat planting is less than 10 inches **OR** if pH of soil is less than 6.2, and if in either of these instances moldboard plowing was not used, then plant-back interval is increased to 15 months; if 10 or more inches of rain or irrigation fell between time of product application and wheat planting and if pH is greater than 6.2, or if moldboard plowing was used, then plant back interval is 4 months. Deep disking (> 6" deep) or other ground tillage after harvest, but prior to November 1 can limit any injury that may occur to non-Clearfield wheat (planted after a 4-month plant-back interval) if pH or precipitation requirements for a 4-month plant back are not entirely met. NOTE – if field receives abnormally low rainfall or irrigation for 2 months after **Avalaire Imazethapyr 2 SL** is used, the likelihood of injury to non-Clearfield wheat planted within indicated plant-back interval is greater.

<sup>2</sup> Cotton (NC, SC, VA) – for 9 ½ month plant-back interval, cotton must be rotated into a field previously planted to peanut only; soil texture must be sandy loam or loamy sand only; Irrigation or rainfall amount of more than 16 inches must be received through October in the year that **Avalaire Imazethapyr 2 SL** was applied to peanuts – if these requirements are not met, plant back interval is 18 months

<sup>3</sup> Cotton – When rotating cotton into an alfalfa or clover field grown for seed only, previously treated with **Avalaire Imazethapyr 2 SL**, if field received less than 3 acre-feet (36 inches) of water, rotation interval is increased to 40 months (this increase does not apply if alfalfa or clover was grown for forage or hay)

<sup>4</sup> Popcorn, Sweet Corn – Be aware that undesired affects such as a delay in maturity, stunting or other unwanted effects can occur to popcorn or sweet corn which are planted as rotational crops to fields where **Avalaire Imazethapyr 2 SL** has been previously applied.

<sup>5</sup> Popcorn, Sweet Corn in IL, IN, IA, IM, OH, TN, WI – **DO NOT** plant fresh market sweet corn varieties any sooner than 18 months after an application of **Avalaire Imazethapyr 2 SL**. Some sweet corn (not for fresh market) and popcorn varieties can be planted as rotational crops the next year after an application of this product. Be aware that some sweet corn and popcorn varieties can undergo injury if planted less than 18 months after an application of **Avalaire Imazethapyr 2 SL**. Contact popcorn companies and sweet corn processors prior to planting and inquire about the particular varieties response as a rotational crop in fields treated with imazethapyr. See LIMITATIONS AND WARRANTIES section regarding limitations for popcorn and sweet corn rotational crops.

<sup>6</sup> After the 40-month plant back restriction, before planting crops included under ‘All other crops’ entry, grower must complete an acceptable field bioassay, by growing a test strip of the desired rotational crop to maturity in the treated field, and observing the crop for any injury. Make certain to encompass any variations in soil and terrain (such as areas of differing pH or soil type, planting areas that are low, or are on knolls). If the test crop does not exhibit any injury, the desired rotational crop can be planted the following season.

<sup>7</sup> Sugar Beets – if growing sugar beets as a rotational crop, be aware that yield can be diminished if soil pH is less than 6.5. If taking measures to adjust pH, such as liming, be sure to do so for sugar beets (or any other crops included under the ‘All other crops’ entry, with a 40- month plant back interval) no less than 12 months prior to planting the rotational crop.

When **Avalaire Imazethapyr 2 SL** is used per label instructions, rotational crops, planted as indicated above (or in **Additional Rotational Crop Exceptions** section) must grow normally in typical situations. However, all risks and injury to a rotational crop is always a possibility, due to unforeseen environmental and agronomic factors. **Avalaire Imazethapyr 2 SL** may cause injury to some vulnerable rotational crops (such as vegetable crops, and, particularly, sugar beets) under some environmental conditions (low/limited irrigation or rainfall, low pH, soils with a high organic matter content or a heavy texture).

Applications of certain herbicides at full label rates that occur in the same year as an application of **Avalaire Imazethapyr 2 SL** can heighten the possibility of injury to vulnerable rotational crops. Take care when applying herbicides containing chlorimuron ethyl, cloransulam-methyl, flumetsulam, imazaquin or imazethapyr, and be certain to refer to product labeling labeling for information regarding rotational crops when these products are used in combination or sequentially.

Rotational crops must be grown to maturity prior to being use for food or feed.

### **Additional Rotational Crop Exceptions**

Rotational Crops planted after **Edible Legumes** – If the use rate of **Avalaire Imazethapyr 2 SL** is no more than 3 fl. oz./ A (0.047 lb. a.i./A), the following crops can be planted at the indicated rotational intervals:

Chickpea, Lentil, Peas	0 month
Snap bean	3 months
Barley	0 months

**Clearfield Canola** – after application of **Avalaire Imazethapyr 2 SL** to the crops on this label, Clearfield canola can be planted the following season as a rotational crop.

**Corn – Inbred Seed Lines** – based on testing from seed companies, after application of **Avalaire Imazethapyr 2 SL** to the crops on this label, corn inbred seed lines can be planted the following year as a rotational crop. Contact seed companies prior to planting and inquire about specifications, information, and the particular seed corn’s varietal response as a rotational crop in fields treated with imazethapyr. See **LIMITATIONS AND WARRANTIES** Section regarding particular limitations regarding corn inbred seed lines rotational crops.

## **USE-SPECIFIC INFORMATION**

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### **ALFALFA, CLOVER and BIRDSFOOT TREFOIL**

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#### **ALFALFA AND CLOVER**

##### **APPLICATION INSTRUCTIONS**

Apply postemergence to seedling or established alfalfa or clover grown for forage, hay or seed

Application Rate – 3.0 to 6.0 fl. oz./A (0.047-0.094 lb. ai/A)

#### Seedling Alfalfa or Clover

- A short-lived decline in crop growth can occur to seedling alfalfa or clover, particularly if weather is 40° F or cooler (cooler temperatures may also result in crop yellowing)

#### Established Alfalfa or Clover

- Apply to dormant or semi dormant alfalfa or clover in the fall (when crop enters dormancy) or spring (when crop is breaking dormancy), or to growing alfalfa or clover after cutting, once hay has been removed from the field, before crop growth/regrowth reaches 3 inches in height.
- Shortly after application, minor leaf yellowing or minimal reduction in height may occur particularly if weather is 40°F or cooler (cooler temperatures may also result in crop yellowing)

**Avalaire Imazethapyr 2 SL** can be applied to spring-seeded, summer-seeded or fall-seeded alfalfa and clover. This product controls a wide range of listed grass and broadleaf weeds. Apply early postemergence to actively growing weeds. See **WEEDS CONTROLLED** section for specific weed height and size limits for optimum control, but typically apply when a majority of weeds are 1 to 3 inches, or for low growing weeds (i.e., mustard), before rosette exceeds 3 inches. If weeds are under stress (cold, drought), they can be less susceptible to control.

**Avalaire Imazethapyr 2 SL** applied to interseeded oats when they have 3 to 4 leaves can eliminate or reduce the growth of oats. It is desirable to control oats (which have been planted as an interseeded crop for the purpose of allowing alfalfa and clover stand establishment and to minimize soil erosion) so that they do not compete with alfalfa or clover.

**Avalaire Imazethapyr 2 SL** applied to perennial grasses (i.e., brome, fescue, orchardgrass, timothy) that are growing in alfalfa and clover stands can limit the growth of the grasses so that they do not compete with alfalfa or clover.

**Tank Mixes** – For enhanced control of weeds, or increasing the weed control spectrum in alfalfa and clover, **Avalaire Imazethapyr 2 SL** can be tank mixed with another herbicide registered for use in these crops. Read and follow the label of each tank mix partner for precautionary statements, directions for use, rates and timings, and other restrictions.

#### RESTRICTIONS

- **DO NOT** apply more than 6 fl. oz. product per acre (0.094 lb. ai/A) in a single application.
- **DO NOT** make more than one application of **Avalaire Imazethapyr 2 SL** per year.
- **DO NOT** apply more than 6 fl. oz. product per acre (0.094 lb. ai/A) per year except as specified otherwise below.
- **DO NOT** apply more than 4 fl. oz. product per acre per year (0.063 lb. ai/A/year) in ND or MN – north of Hwy. #210
- **DO NOT** apply more than 4 fl. oz. product per acre per year (0.063 lb. ai/A/year) during the last year of an alfalfa or clover stand
- Preharvest interval – 30 days
- Wait 30 days to feed or graze alfalfa or clover following an application of **Avalaire Imazethapyr 2 SL**
- Alfalfa or clover can be replanted (upon the occasion of crop loss) after 4 months following an application of **Avalaire Imazethapyr 2 SL**
- To minimize the possibility of crop injury (reduced growth or delayed maturity), do not apply to seedling alfalfa or clover until it has reached the second trifoliolate growth stage or later (second trifoliolate leaf has expanded) or prior to bud formation for alfalfa or clover grown for seed.

**WEEDS CONTROLLED**

**Avalaire Imazethapyr 2 SL** will control or suppress the following weeds, when used as instructed on this label. See **ADDITIVES** section of label for information regarding additives that can enhance effectiveness of this product if weeds are under stress or are at their higher growth stage limit.

	Avalaire Imazethapyr 2 SL Rate (fl. oz./A)		
	3 (0.047 lb. ai)	4 (0.063 lb. ai)	6 (0.094 lb. ai)
	Maximum Weed Size (inches)		
<b>Broadleaf Weeds</b>			
Artichoke, Jerusalem	S	6	8
Bedstraw, catchweed	--	3	4
Beet, wild	4	5	6
Buckwheat, wild	--	3	4
Chickweed, common	S	3	4
mouseear	S	3	3
Cocklebur, common	S	8	8
Cress, hoary	--	S	R
Dandelion	--	S	S(5)
Dock, broadleaf (seedling)	--	--	S(6)
curly (seedling)	--	--	S(6)
Dodder <sup>1</sup>	--	--	S <sup>1</sup>
Fiddleneck	--	--	S(4)
Filaree, redstem	--	S	3
whitestem	--	S	3
Fleabane, rough	--	3	3
Flixweed	S	3	4
Goosefoot, nettleleaf	S	3	4
Grounsel, common	--	--	S(3)
Henbit	--	S	3
Jimsonweed	--	3	4
Knotweed, prostrate	--	S	3
Kochia (non-ALS resistant)	S	3	3
Lambsquarters, common (1 to 2 leaves)	--	S	S(2)
Lettuce, miner's	--	3	4
Mallow, common	--	3	3
little	--	3	3
Marshelder	--	4	6
Morningglory, entireleaf	--	S	3
ivyleaf	--	S	3
pitted	--	S	3
smallflower	S	3	4
tall	--	S	3
Mustard, black	3	3	4
tumble	3	3	4
wild	3	3	4
Nettle, burning	--	3	4

	Avalaire Imazethapyr 2 SL Rate (fl. oz./A)		
	3 (0.047 lb. ai)	4 (0.063 lb. ai)	6 (0.094 lb. ai)
	Maximum Weed Size (inches)		
Nightshade, black	3	3	4
Eastern black	3	3	4
hairy	3	3	4
Oxtongue, bristly	--	--	S(3)
Pennycress, field	3	3	4
Pepperweed, field	3	3	4
Virginia	S	3	3
Pigweed, redroot	4	6	8
smooth	4	6	8
spiny	--	6	8
Radish, wild	--	S	4
Ragweed, common	--	2	3
giant	--	3	3
Redmaids	--	3	4
Rocket, London	3	4	6
yellow	S	3	4
Rockpurslane, desert	--	--	3
Shepherd's-purse	3	3	4
Smartweed, ladythumb	S	3	4
Pennsylvania	S	3	4
swamp (seedling)	--	3	4
Spurge, petty	--	3	4
prostrate	--	S	3
spotted	--	S	3
Spurry, corn	--	3	3
Sunflower, common	S	4	6
Swinecress	--	3	3
Tansymustard, green	3	3	4
pinnate	3	3	4
Thistle, Russian	S	3	3
Velvetleaf	S	3	4
Wartcress, creeping	--	2	3
Watercress	--	3	3
Willowweed, panicle	--	3	3
<b>Grass Weeds<sup>2</sup> and Sedges</b>			
Watercress	--	3	3
Willowweed, panicle	--	3	3
Barnyardgrass	--	S	3
Bluegrass, annual	--	--	S(3)
Canarygrass, littleseed	--	S	S(3)
Cereals, volunteer	--		
barley	--	S	S(4)
oat	--	S	S(4)



	Avalaire Imazethapyr 2 SL Rate (fl. oz./A)		
	3 (0.047 lb. ai)	4 (0.063 lb. ai)	6 (0.094 lb. ai)
	Maximum Weed Size (inches)		
wheat	--	S	S(4)
Crabgrass, large	--	S	3
smooth	--	S	3
Cupgrass, woolly <sup>3</sup>	--	3	3
Foxtail, giant	--	6	6
Green	--	3	4
Yellow	--	3	3
Johnsongrass, rhizome	--	S	S(6 to 12)
seedling	--	8	8
Millet, wild proso	--	S	3
Nutsedge, purple	--	S	S(6)
Yellow	--	S	S(6)
Oat, wild	--	S	S(4)
Quackgrass <sup>4</sup>	--	--	S(7)
Rice, red	--	3	4
Shattercane	--	8	10
Signalgrass, broadleaf	--	S	8

S – ‘Suppressed’ (Avalaire Imazethapyr 2 SL suppresses weed species to so that reduced competition is achieved; optimum suppression is obtained when product is applied prior to weeds reaching indicated height)

<sup>1</sup>For optimum results, apply with crop oil concentrate or methylated seed oil to dodder (*Cuscuta* spp.) after emergence but prior to attachment

<sup>2</sup>When substantial pressure is expected from grass weeds, for best results, apply this product in a sequential application with a postemergence grass herbicide (such as sethoxydim)

<sup>3</sup>Only for control of woolly cupgrass that is emerged

<sup>4</sup>Only for suppression of quackgrass that is less than 7 inches tall and is growing

## BIRDSFOOT TREFOIL

### APPLICATION INSTRUCTIONS

Apply postemergence to birdsfoot trefoil (seedling or established) grown for hay or forage

Application Rate – 4.0 fl. oz. / A (0.063 lb. ai)

#### Seedling Birdsfoot Trefoil

- To minimize the possibility of crop injury (reduced growth or delayed maturity), do not apply to seedling birdsfoot trefoil until it has reached the third trifoliate growth stage or later (third trifoliate leaf has expanded)
- A short-lived decline in crop growth can occur to seedling birdsfoot trefoil, particularly if weather is 40° F or cooler (cooler temperatures may also result in crop yellowing)

#### Established Birdsfoot Trefoil

- Apply to dormant or semi dormant alfalfa or clover in the fall (when crop enters dormancy or spring (when crop is breaking dormancy), or to growing birdsfoot trefoil after cutting, once hay has been removed from the field, before crop growth/regrowth reaches 3 inches in height.
- Shortly after application, minor leaf yellowing or minimal reduction in height may occur particularly if weather is 40°F or cooler (cooler temperatures may also result in crop yellowing)

**Avalaire Imazethapyr 2 SL** controls a wide range grass and broadleaf weeds. Apply early postemergence to actively growing weeds. See **WEEDS CONTROLLED** section for specific weed height and size limits for optimum control, but typically apply when a majority of weeds are 1 to 3 inches, or for low growing weeds (i.e., mustard), before rosette exceeds 3 inches. If weeds are under stress (cold, drought), they can be less susceptible to control.

Add a nonionic surfactant and urea ammonium nitrate or ammonium sulfate to the spray tank when applying to birdsfoot trefoil. **DO NOT** use oils (crop- or methylated seed-) as a substitute for the surfactant. See **ADDITIVES** section of label for information regarding these additives – for urea ammonium nitrate, refer to information regarding ammonium sulfate.

**Avalaire Imazethapyr 2 SL** applied to perennial grasses (i.e., brome, fescue, orchardgrass, timothy) that are growing in birdsfoot trefoil stands can limit the growth of the grasses so that they do not compete with birdsfoot trefoil.

#### RESTRICTIONS

- **DO NOT** apply more than 4 fl. oz. product per acre (0.063 lb. ai/A) in a single application.
- **DO NOT** apply more than 4 fl. oz. product per acre (0.063 lb. ai/A) per year.
- **DO NOT** make more than one application of product per year.
- Preharvest interval – 30 days
- Wait 30 days to feed or graze birdsfoot trefoil following an application of **Avalaire Imazethapyr 2 SL**
- Wait 4 months following an application of **Avalaire Imazethapyr 2 SL** before replanting birdsfoot trefoil
- Not for use in the State of California

#### WEEDS CONTROLLED

See **WEEDS CONTROLLED** section in ALFALFA AND CLOVER use directions for weeds controlled at the 4 fl. oz./A (0.063 lb. ai/A) rate.

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## EDIBLE LEGUME VEGETABLES

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**ADZUKI, BLACK TURTLE, CHICKPEA (GARBANZO BEAN), CRANBERRY, DRY EDIBLE PEAS, ENGLISH PEA, GREAT NORTHERN, LENTIL, LIMA, NAVY, PINTO, RED KIDNEY, SMALL WHITE-TYPE DRY BEANS, SOUTHERN PEA and WHITE LUPIN**

States east of and including CO, NM, ND, SD, WY, except States east of and including CT, MA, VT (see shaded states in map, below):



### APPLICATION INSTRUCTIONS

Apply preplant incorporated and preemergence to all listed beans and peas, and early postemergence to Adzuki, Black Turtle, Cranberry, Dry Edible Peas, English Pea, Great Northern, Navy, Pinto, Red Kidney, Small White-type Dry Beans and Southern Pea

Application Rates:

- 4.0 fl. oz./A (0.063 lb. ai/A) – Southern pea only
- 3.0 fl. oz./A (0.047 lb. ai/A) – all listed beans and peas except Southern Pea
- 2.0 fl. oz./A (0.032 lb. ai/A) – if applying in ND or MN (north of Highway #210)
- 2.0 fl. oz./A (0.032 lb. ai/A) – if applying to soils that are classified as loamy sand or sand in MI or the DE/MD/VA (DelMarVa) Peninsula

**Avalaire Imazethapyr 2 SL** controls a wide range of listed weeds. See **WEEDS CONTROLLED** section for specific weed heights, and size limits for optimum control, but when using at the 3 fl. oz./A (0.047 lb. a.i./A) rate, best results are achieved when applying to weeds that are not yet 2 inches in height.

Apply preplant incorporated up to 1 week before planting or preemergence up to 3 days after planting. For enhanced control, **Avalaire Imazethapyr 2 SL** may be tank mixed with or applied sequentially after a grass herbicide.

**Avalaire Imazethapyr 2 SL** can also be applied early postemergence, as indicated below:

Crop	Growth Stage
Dry beans	At least one fully expanded trifoliolate leaf
Dry Edible Peas, English Pea, Southern Pea	Prior to 5 nodes; Prior to flowering; at least 3 inches in height
Chickpea, Lentil, Lima bean, White Lupin	<b>DO NOT</b> apply postemergence

If growth stages are not observed, the probability of crop injury (reduced growth or delayed maturity) is increased. If crop has begun to flower, an application of **Avalaire Imazethapyr 2 SL** will increase the probability of crop injury. If **Avalaire Imazethapyr 2 SL** is applied sequentially after an application of trifluralin, the severity and probability of crop damage is increased. When applying early postemergent, add a nonionic surfactant to the spray mixture (do not use any oils, such as crop-, methylated seed- or petroleum- as a spray additive when applying postemergent to edible legumes). See **ADDITIVES** section of label for information regarding surfactants.

Be aware that applying **Avalaire Imazethapyr 2 SL** to edible legumes can result in adverse effects to edible legumes, including delayed maturity, diminished crop growth, yield or quality or delayed maturity, which may necessitate a modification in timing of harvest. If planting of edible legumes is delayed, and there is a chance of frost prior to crop maturity, applying **Avalaire Imazethapyr 2 SL** is not advised. **Avalaire Imazethapyr 2 SL** needs to be applied only to healthy edible legume fields where proper agronomic practices are in use (tillage procedures that remove compaction and hardpans, fertile soil where correct crop rotation has been applied, good disease and insect control, etc.). Planting lentils, lima beans or peas to a minimum depth of 1/2 inch will diminish the risk of crop injury.

Contact seed supplier prior to planting and inquire about a particular varieties response to applications of imazethapyr. See **LIMITATIONS AND WARRANTIES** section regarding specific limitations for edible legume vegetables.

**Tank Mixes** – For enhanced control of weeds, or increasing the weed control spectrum in edible legumes, **Avalaire Imazethapyr 2 SL** can be tank mixed with, or followed by an application of another herbicide registered for use in

these crops. Consider tank mixing with a product containing bentazon registered for use on edible legumes. Be aware, however, that this tank mix could decrease control to grass weeds. A nitrogen based fertilizer can be added to the spray mixture only when **Avalaire Imazethapyr 2 SL** is tank mixed with a bentazon herbicide. See **ADDITIVES** section of label for information regarding nitrogen fertilizers. Read and follow the label of each tank mix partner for precautionary statements, directions for use, rates and timings, and other restrictions.

**RESTRICTIONS**

- **DO NOT** apply more than 3 fl. oz. product per acre (0.047 lb. ai/A) in a single application to listed edible legumes (except southern pea) in this geographical area
- **DO NOT** apply more than 4 fl. oz. product per acre (0.063 lb. ai/A) in a single application to southern pea only in this geographical area
- **DO NOT** apply more than 3 fl. oz. product per acre (0.047 lb. ai/A) per year to listed edible legumes (except southern pea) in this geographical area
- **DO NOT** apply more than 4 fl. oz. product per acre (0.063 lb. ai/A) per year to southern pea only in this geographical area
- **DO NOT** make more than one application of **Avalaire Imazethapyr 2 SL** per year
- **Avalaire Imazethapyr 2 SL** cannot be applied to edible legumes through any type of irrigation system
- Postemergent application of **Avalaire Imazethapyr 2 SL** cannot be made to chickpea, lentil, lima bean or white lupin
- Preharvest interval – 30 days for English pea, snap bean, southern pea, succulent lima bean and chickpea (AZ and CA only)
- Preharvest Interval – 60 days for chickpea (other than AZ and CA), dry edible peas, lentil, red kidney bean, other dry beans or peas listed on this label.
- **DO NOT** apply this product if weather conditions are wet and/or cold at time of application, or are forecasted to be so up to a week after application

**WEEDS CONTROLLED**

**Avalaire Imazethapyr 2 SL** (applied at either 2 or 3 fl. oz./A) (0.032 or 0.047 lb. ai/A) will control or suppress the following weeds, when used preplant incorporated, preemergence, or early postemergence (where allowed) as instructed on this label:

Weed	2 fl. oz./A <b>Avalaire Imazethapyr 2 SL</b> (0.032 lb. ai/A)	3 fl. oz./A <b>Avalaire Imazethapyr 2 SL</b> (0.047 lb. a.i./A)
Mustard, wild	●	●
Nightshade, black	S	●
Nightshade, Eastern black,	S	●
Nightshade, hairy	--	●
Pigweed, redroot	--	●

● - Control (weeds are controlled when **Avalaire Imazethapyr 2 SL** is applied as indicated in the chart  
 S – ‘Suppressed’ (**Avalaire Imazethapyr 2 SL** suppresses weed species so that reduced competition is achieved)

**Avalaire Imazethapyr 2 SL** applied at 4 fl. oz./A (0.063 lb. ai/A) (to Southern peas ONLY) will control or suppress the following weeds when used as instructed on this label:

	Soil Applied	Postemergence	
		Maximum Leaf Stage <sup>1</sup>	Size (inches)
<b>Broadleaf Weeds</b>			
Anoda, spurred	●	2	1 to 2
Artichoke, Jerusalem	--	8	6 to 10
Bristly starbur	--	2	1 to 2

	Soil Applied	Postemergence	
		Maximum Leaf Stage <sup>1</sup>	Size (inches)
Buffalobur	● <sup>2</sup>	--	--
Carpetweed	●	--	--
Cocklebur, common	● <sup>2</sup>	8	1 to 8
Galinsoga	●	--	--
Jimsonweed	● <sup>3</sup>	4	1 to 3
Kochia (non-ALS resistant)	●	4	1 to 3
Lambsquarters, common	● <sup>3</sup>	R	1 to 2
Mallow, Venice	R	--	--
Morningglory, entireleaf	R	2	1 to 2
ivyleaf	R	2	1 to 2
pitted	R	2	1 to 2
smallflower	●	4	1 to 3
tall	R	2	1 to 2
Mustard spp.	●	4	1 to 3
Nightshade, black	●	4	1 to 3
Eastern black	●	4	1 to 3
hairy	●	4	1 to 3
Pigweed, redroot	●	4	1 to 4
smooth	●	4	1 to 4
spiny	●	4	1 to 4
Poinsettia, wild	●	--	--
Puncturevine	●	--	--
Purslane, common	●	--	--
Pusley, Florida	●	--	--
Ragweed, common	R	4	1 to 3
giant	R	4	1 to 3
Sage, barnyard	--	R	1 to 3
Sida, prickly	● <sup>3</sup>	--	--
Smartweed, ladysthumb	●	4	1 to 3
Pennsylvania	●	4	1 to 3
Spurge, prostrate	●	4	1 to 3
spotted	●	4	1 to 3
Sunflower, common	● <sup>3</sup>	4	1 to 3
Thistle, Canada	--	R	1 to 3
Velvetleaf	● <sup>3</sup>	4	1 to 3
<b>Grass Weeds and Sedges<sup>3</sup></b>			
Barnyardgrass	R	3	1 to 3
Crabgrass, large	R	3	1 to 3
smooth	R	3	1 to 3
Cupgrass, woolly <sup>4</sup>	--	3 <sup>†</sup>	1 to 3
Foxtail, giant	●	6	1 to 6
green	●	3	1 to 3
robust purple	●	3	1 to 3

	Soil Applied	Postemergence	
		Maximum Leaf Stage <sup>1</sup>	Size (inches)
robust white	●	3	1 to 3
yellow	●	3	1 to 3
Goosegrass	R	--	--
Johnsongrass, rhizome	--	R	1 to 8
seedling	●	6	1 to 8
Nutsedge, purple	R	R	1 to 3
yellow	R	R	--
Panicum, fall	R	--	--
Texas	R	--	--
Red rice	--	3	1 to 3
Shattercane	R	6	1 to 8
Signalgrass, broadleaf	R	4	1 to 8

● - Control (weeds are controlled when **Avalaire Imazethapyr 2 SL** is applied as indicated in the chart)

S – ‘Suppressed’ (**Avalaire Imazethapyr 2 SL** suppresses weed species so that reduced competition is achieved)

<sup>1</sup>When applying postemergent, spray leaves before they reach the number of leaves indicated in ‘Maximum Leaf Stage’ column

<sup>2</sup>Soil applications to indicated broadleaf weeds need to be used only for infestations that are light to moderate. A preplant incorporated application will result in more uniform and reliable control

<sup>3</sup>When applying to indicated broadleaf weeds and grasses, a preplant incorporated application will result in more uniform and reliable control

<sup>4</sup>Woolly cupgrass is only controlled once it has emerged

## CHICKPEA, DRY EDIBLE PEAS, LENTIL, LIMA BEAN, SUCCULENT PEAS ID, MT, NV, OR, UT, WA

### APPLICATION INSTRUCTIONS

Apply preplant (in no-till and minimum tillage systems), preplant incorporated, preemergence or postemergence (dry edible peas only) to listed edible legumes in ID, MT, NV, OR, UT, or WA

Application Rates:

3.0 fl. oz./A (0.047 lb. ai/A) – preplant, preplant incorporated, preemergence

2.0 fl. oz./A (0.032 lb. ai/A) – postemergence

**Avalaire Imazethapyr 2 SL** can be applied preplant to minimum tillage and no-till systems within 30 days of planting. This product can also be applied in the fall to minimum tillage and no-till systems, prior to spring planting. Apply before the ground is frozen, but when the soil temperature is 55°F, measured at a 4-inch depth. If applying in the fall prior to a spring planting, make sure that rainfall (or irrigation) occurs so that the product can be incorporated and activated in the soil, and be advised that the timeframe between application and planting, and unknown and uncontrollable weather factors could result in unpredictable weed control.

**Avalaire Imazethapyr 2 SL** can be applied preplant incorporated, up to 1 week before planting or preemergence, once crop has been planted, but prior to emergence.

When applying preplant incorporated (or if incorporating after a preplant application in no-till and minimum tillage systems), make certain that product is incorporated no deeper than 3 inches.

**Avalaire Imazethapyr 2 SL** can be applied postemergent to dry edible peas only, at indicated rate. To limit or avoid injury to crop (delayed maturity or diminished crop growth), make sure that dry edible peas have reached 3 inches

in height and have at least 1 trifoliate leaf. When applying postemergent to dry edible peas, add a nonionic surfactant to the spray mixture. See ADDITIVES section of label for information regarding surfactants

**Tank Mixes** – For enhanced control of weeds, or increasing the weed control spectrum in listed crops, **Avalaire Imazethapyr 2 SL** can be tank mixed with, or followed by an application of another herbicide registered for use in these crops. Consider tank mixing with a product containing bentazon registered for use on these edible legumes. Be aware, however, that this tank mix could decrease control to grass weeds. A nitrogen based fertilizer (or spray grade ammonium sulfate) can be added to the spray mixture only when **Avalaire Imazethapyr 2 SL** is tank mixed with a bentazon herbicide. See **ADDITIVES** section of label for information regarding nitrogen fertilizers. Read and follow the label of each tank mix partner for precautionary statements, directions for use, rates and timings, and other restrictions.

**RESTRICTIONS**

- **DO NOT** apply more than 3 fl. oz. product per acre (0.047 lb. ai/A) in a single application
- **DO NOT** apply more than 3 fl. oz. product per acre (0.047 lb. ai/A) per year to listed edible legumes in this geographical area
- **DO NOT** make more than one application of **Avalaire Imazethapyr 2 SL** per year
- Postemergent application of **Avalaire Imazethapyr 2 SL** cannot be made to chickpea, lentil or lima bean
- Preharvest interval – 30 days for succulent lima bean, succulent pea and chickpea (AZ and CA only)
- Preharvest Interval – 60 days for chickpea (other than AZ and CA), dry edible peas, dry lima bean, and lentil

**WEEDS CONTROLLED**

**Avalaire Imazethapyr 2 SL** (applied at either 2 or 3 fl. oz./A) (0.032 or 0.047 lb. ai/A) will control or suppress the following weeds, when used preplant, preplant incorporated, preemergence, or early postemergence (where allowed) as instructed on this label:

	<b>Preplant Incorporated (3 fl. oz./A) (0.047 lb. ai/A)</b>	<b>Preemergence (3 fl. oz./A) (0.047 lb. ai/A)</b>	<b>Postemergence (2 fl. oz./A) (0.032 lb. ai/A)</b>
Buckwheat, wild	●	●	
Kochia (non-ALS resistant)	●	●	
Lambsquarters, common	●	--	
Mustard, wild	●	●	●
Nightshade, black	●	●	S
Eastern black	●	●	S
hairy	●	●	S
Pigweed, redroot	●	●	
Shepherd’s-purse	●	●	
Thistle, Russian	●	●	

● - Control (weeds are controlled when **Avalaire Imazethapyr 2 SL** is applied as indicated in the chart)  
 S – ‘Suppressed’ (**Avalaire Imazethapyr 2 SL** suppresses weed species so that reduced competition is achieved)

**CHICKPEA  
AZ and CA**

**APPLICATION INSTRUCTIONS**

Apply preplant incorporated or preemergence to chickpeas  
 Application Rate – 3.0 fl. oz./A (0.047 lb. ai/A)

Apply preplant incorporated up to 1 week before planting or preemergence up to 3 days after planting. For enhanced control, **Avalaire Imazethapyr 2 SL** may be tank mixed with or applied sequentially after a grass herbicide.

**RESTRICTIONS**

- **DO NOT** apply more than 3 fl. oz. product per acre (0.047 lb. ai/A) in a single application to listed edible legumes in this geographical area
- **DO NOT** apply more than 3 fl. oz. product per acre (0.047 lb. ai/A) per year to listed edible legumes in this geographical area
- **DO NOT** make more than one application of **Avalaire Imazethapyr 2 SL** per year
- Preharvest interval – 30 days for succulent chickpea
- Preharvest Interval – 60 days for dry chickpea

**WEEDS CONTROLLED**

**Avalaire Imazethapyr 2 SL** will control the following weeds, when used preplant incorporated or preemergence on chickpeas in AZ and CA, as instructed on this label:

	<b>Preplant Incorporated</b>	<b>Preemergence</b>
Buckwheat, wild	●	●
Kochia (non-ALS resistant)	●	●
Lambsquarters, common	●	--
Mustard, wild	●	●
Nightshade, black	●	●
Eastern black	●	●
hairy	●	●
Pigweed, redroot	●	●
Shepherd’s-purse	●	●
Thistle, Russian	●	●

**RED KIDNEY BEAN**

In CA

**APPLICATION INSTRUCTIONS**

Apply postemergence to red kidney bean in CA.

Application Rate – 3.0 fl. oz./A (0.047 lb. ai/A)

**Avalaire Imazethapyr 2 SL** can be applied postemergent to red kidney bean, at indicated rate. Make application when target weeds are actively growing. To limit or avoid injury to crop (delayed maturity or diminished crop growth), make sure that red kidney beans have at least 1 fully expanded trifoliate leaf. When applying postemergent to red kidney beans, add a nonionic surfactant to the spray mixture. See **ADDITIVES** section of label for information regarding surfactants.

If weather or soil are dry, a cultivation 7 to 10 days following application of **Avalaire Imazethapyr 2 SL** will give optimum results, particularly for residual weed control.

If red kidney beans or weeds are under stress, due to extremes in soil or environmental moisture or temperature, do not apply **Avalaire Imazethapyr 2 SL**.



## RESTRICTIONS

- **DO NOT** apply more than 3 fl oz. (0.047 lb. ai/A) per acre in a single application
- **DO NOT** apply more than 3 fl. oz. product per acre (0.047 lb. ai/A) per year to red kidney beans
- **DO NOT** make more than one application of **Avalaire Imazethapyr 2 SL** per year
- **Avalaire Imazethapyr 2 SL** cannot be aerially applied to red kidney beans
- Preharvest Interval – 60 days

## WEEDS CONTROLLED

**Avalaire Imazethapyr 2 SL** will control or suppress the following weeds, when applied postemergence, as instructed on this label. See **ADDITIVES** section of label for information regarding additives that can enhance effectiveness of this product if weeds are under stress or are at their higher growth stage limit.

	Postemergence	
	Maximum Leaf Stage <sup>1</sup>	Size (inches)
Kochia (non-ALS resistant)	4	1 to 3
Mustard spp.	4	1 to 3
Nightshade, black	4	1 to 3
Eastern black	4	1 to 3
hairy	4	1 to 2
Pigweed, redroot	4	1 to 3

<sup>1</sup>Spray leaves before they reach the number of leaves indicated in 'Maximum Leaf Stage' column

## SNAP BEANS

AL, FL, GA, IL, IN, IA, MN, MI, NJ, NC, WI

## APPLICATION INSTRUCTIONS

Apply preplant incorporated or preemergence to snap beans in listed geographical area

Application rate – 1.5 fl. oz./A (0.023 lb. ai/A)

Apply preplant incorporated up to 1 week before planting or preemergence up to 1 day after planting. For enhanced control, **Avalaire Imazethapyr 2 SL** may be tank mixed with or applied sequentially after a grass herbicide.

## RESTRICTIONS

- **DO NOT** apply more than 1.5 fl. oz. product per acre (0.023 lb. ai/A) in a single application
- **DO NOT** apply more than 1.5 fl. oz. product per acre (0.023 lb. ai/A) per year to snap beans
- **DO NOT** make more than one application of **Avalaire Imazethapyr 2 SL** per year
- **Avalaire Imazethapyr 2 SL** cannot be aerially applied to snap beans
- **Avalaire Imazethapyr 2 SL** cannot be applied after July 31 (June 20 in NJ)
- Snap beans can be replanted (upon the occasion of crop loss, etc.) any time following an application of **Avalaire Imazethapyr 2 SL** at a rate of no more than 1.5 fl. oz./A (0.023 lb. ai/A)
- Preharvest Interval – 30 days

## WEEDS SUPPRESSED

**Avalaire Imazethapyr 2 SL** will suppress the following weeds so that reduced competition is achieved, when used preplant incorporated or preemergence on snap beans, as instructed on this label:

Common black purslane  
Eastern black nightshade  
Redroot pigweed  
Wild mustard

## SNAP BEANS

AR, MO, NM (Curry and Roosevelt counties only), NC, OK,  
TX (Bailey, Castro, Lamb and Parmer counties only)

### APPLICATION INSTRUCTIONS

Apply postemergence to snap beans in listed geographical area.  
Application rate 1.5 fl. oz./A (0.023 lb. ai/A)

**Avalaire Imazethapyr 2 SL** can be applied postemergent, when tank mixed with a bentazon herbicide labeled for use on snap beans. To limit or avoid injury to crop (delayed maturity or diminished crop growth), make sure that snap beans have at least 1 true leaf. When applying postemergent to snap beans, add a nonionic surfactant to the spray mixture. See **ADDITIVES** section of label for information regarding surfactants. Read and follow the label of each tank mix partner for precautionary statements, directions for use, rates and timings, and other restrictions.

### RESTRICTIONS

- **DO NOT** apply more than 1.5 fl. oz. product per acre (0.023 lb. ai/A) in a single application
- **DO NOT** apply more than 1.5 fl. oz. product per acre (0.023 lb. ai/A) per year to snap beans
- **DO NOT** make more than one application of **Avalaire Imazethapyr 2 SL** per year
- **Avalaire Imazethapyr 2 SL** cannot be aerially applied to snap beans
- **Avalaire Imazethapyr 2 SL** cannot be applied after July 31
- Snap beans can be replanted (upon the occasion of crop loss, etc.) any time following an application of **Avalaire Imazethapyr 2 SL** at a rate of no more than 1.5 fl. oz./A (0.023 lb. ai/A)
- Preharvest Interval – 30 days

### WEEDS SUPPRESSED

**Avalaire Imazethapyr 2 SL** will suppress the following weeds so that reduced competition is achieved, when used postemergence on snap beans, as instructed on this label:

Eastern black nightshade  
Redroot pigweed

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## PEANUT

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### APPLICATION INSTRUCTIONS

Apply preplant incorporated, preemergence, at-crack, postemergence  
Application rate:

- Single application – 4.0 fl. oz./A (0.047 lb. ai/A)
- Split application – 2.0 fl. oz. (0.032 lb.) preplant incorporated or preemergence followed by 2.0 fl. oz. (0.032 lb.) at-crack or postemergence

**Avalaire Imazethapyr 2 SL** controls or suppresses a wide range of listed grass and broadleaf weeds. The product can be soil applied (preplant incorporated or preemergent applications), can be applied at crack (growth stage about 10 to 14 days after planting where soil is visibly cracked because peanut seedling is emerging) or postemergence. A split application of **Avalaire Imazethapyr 2 SL** can also be made – first application soil applied and second application applied at crack or postemergent, to kill or suppress weeds listed in **Preplant Incorporated**, **Preemergence** and **At-Crack** sections of the **WEEDS CONTROLLED** table.

If applying at crack in west –TX and NM, optimum results will be achieved if application is delayed until late cracking stage (majority of peanut seedlings have emerged) prior to application of **Avalaire Imazethapyr 2 SL**.

**Tank Mixes** – For enhanced control of weeds, or increasing the weed control spectrum in peanuts, **Avalaire Imazethapyr 2 SL** can be tank mixed with, or followed by an application of another herbicide registered for use in peanuts. Consider tank mixing or sequentially applying herbicides containing the active ingredient dimethenamid-P, or pendimnethalin; or sequentially applying a herbicide containing chlorimuron ethyl for postemergent control. Read and follow the label of each tank mix product used for precautionary statements, directions for use, rates and timings, and other restrictions.

**RESTRICTIONS**

- **DO NOT** apply more than 4 fl. oz./ product per acre (0.063 lbs. a.i./A) in a single application
- **DO NOT** apply more than 4 fl. oz./ product per acre (0.063 lbs. a.i./A) per year
- **DO NOT** make more than one application per year at the 4 fl. oz./A rate (0.063 lb. ai/Acre) or two applications at the 2 fl. oz./
- Preharvest Interval – 85 days
- **DO NOT** feed or graze livestock on peanut forage, hay, straw or vines
- Peanuts can be replanted (upon the occasion of crop loss) immediately following an application of **Avalaire Imazethapyr 2 SL**, however upon replanting, soil is not to be worked to a depth greater than 2 inches.
- Not for use in the State of California
- In the State of Arizona, only for use in the counties of LaPaz and Yuma

**WEEDS CONTROLLED**

**Avalaire Imazethapyr 2 SL** will control or suppress the following weeds, when used as instructed on this label. See **ADDITIVES** section of label for information regarding additives that can enhance effectiveness of this product if weeds are under stress or are at their higher growth stage limit.

	Preplant Incorporated, Preemergence	At-Crack <sup>1</sup>	Postemergence <sup>1</sup>	
			Maximum Leaf Stage <sup>2</sup>	Size (inches)
Broadleaf Weeds				
Alligator weed	--	●	4	1 to 3
Anoda, spurred	●	●	2	1 to 2
Bristly starbur	--	--	2	1 to 2
Buffalobur	● <sup>4</sup>	●	S	1 to 3
Carpetweed	●	●	--	--
Cocklebur, common	S	●	8	1 to 8
Devil's claw	●	●	--	--
Galinsoga	●	●	--	--
Jimsonweed	● <sup>4</sup>	●	4	1 to 3
Lambsquarters, common <sup>3</sup>	● <sup>4</sup>	●	S	1 to 2
Morningglory, entireleaf	S	●	2	1 to 2
ivyleaf	S	●	2	1 to 2
pitted	S	●	2	1 to 2
smallflower	●	●	4	1 to 3

tall	S	●	2	1 to 2
Mustard spp.	●	●	4	1 to 3
Nightshade, black	●	●	4	1 to 3
Eastern black	●	●	4	1 to 3
hairy	●	●	4	1 to 3
Pigweed, redroot	●	●	8	1 to 8
smooth	●	●	8	1 to 8
spiny	●	●	8	1 to 8
Poinsettia, wild	●	●	--	--
Puncturevine	●	●	--	--
Purslane, common	●	●	--	--
Pusley, Florida	●	●	--	--
Ragweed, common	S	S	4	1 to 3
giant	S	S	4	1 to 3
Sida, prickly (Teaweed)	● <sup>4</sup>	●	--	--
Smartweed, ladysthumb	●	●	4	1 to 3
Pennsylvania	●	●	4	1 to 3
Spurge, prostrate	●	●	4	1 to 3
spotted	●	●	4	1 to 3
toothed	●	●	--	--
Sunflower	● <sup>4</sup>	●	4	1 to 3
Velvetleaf	● <sup>4</sup>	●	4	1 to 3
<b>Grass Weeds and Sedges<sup>3,4</sup></b>				
Barnyardgrass	S	S	3	1 to 3
Crabgrass, large	S	●	3	1 to 3
smooth	S	●	3	1 to 3
Cupgrass, woolly	--	--	3	1 to 3
Foxtail, giant	●	●	6	1 to 6
green	●	●	3	1 to 3
yellow	●	●	3	1 to 3
Goosegrass	S	S	--	--
Johnsongrass, rhizome	--	--	S	6 to 12
seedling	●	●	6	1 to 8
Nutsedge, purple <sup>5,6</sup>	●	●	3	1 to 3
yellow <sup>5,6</sup>	●	●	3	1 to 3
Panicum, fall	S	--	--	--
Texas	S	--	--	--
Red rice	--	--	3	1 to 3
Shattercane	S	S	6	1 to 8
Signalgrass, broadleaf	S	●	4	1 to 6

● - Control (weeds are controlled when **Avalaire Imazethapyr 2 SL** is applied as indicated in the chart)

S – ‘Suppressed’ (**Avalaire Imazethapyr 2 SL** suppresses weed species so that reduced competition is achieved)

<sup>1</sup> If target weeds exhibit greater than 2 true leaves, best results will be achieved with a postemergence application as opposed to an at-crack application

<sup>2</sup> When applying postemergent, spray weeds before they reach the number of leaves indicated in ‘Maximum Leaf Stage’ column

<sup>3</sup> For optimum results, tank mix with a soil-applied grass herbicide if common lambsquarters or grass pressure is anticipated to be heavy

<sup>4</sup> When applying to indicated broadleaf weeds and grasses, a preplant incorporated application will result in more uniform and reliable control

<sup>5</sup> Incorporate **Avalaire Imazethapyr 2 SL** with two passes when the target weed is nutsedge – to limit any probability for streaking, the second pass needs to be applied at an offset angle to the first pass

<sup>6</sup> Nutsedge control is improved if a split application is made, with the first application soil applied (preplant incorporated or preemergent) and the second application made at crack (prior to nutsedge achieving a 3-leaf growth stage)

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## SOYBEAN, EDAMAME, CONSERVATION RESERVE PROGRAM (land seeded to forage legume cover crops)

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### SOYBEAN

#### APPLICATION INSTRUCTIONS

Apply early preplant, preplant incorporated, preemergence and postemergence to soybeans grown conventional tillage, minimum tillage and no-till

In ND and MN (north of Highway #210) apply postemergence only

Application Rate

- 4.0 fl. oz./A (0.063 lb. ai/A) for all methods of application
- In ND and MN (north of Highway #210) - 3.0 fl. oz./A (0.047 lb. ai/A) (postemergence only)

**Avalaire Imazethapyr 2 SL** controls or suppresses a wide range of listed grass and broadleaf weeds. The product can be soil applied (early preplant, preplant incorporated or preemergent) or applied postemergence. Early preplant applications can be made up to 45 days prior to planting. Postemergence applications are to be made before soybean bloom. When applying in North Dakota and in Minnesota north of Highway #210, application can only be made postemergence, at indicated rate.

Preemergence or early postemergence applications to no-till, minimum-till or double crop soybeans controls a wide range of existing listed grass and broadleaf weeds, and also provides residual control of most weeds. When applying preemergence to weeds that have exceeded growth stage specifications on the **WEEDS CONTROLLED** chart, tank mixing with a contact herbicide can enhance control.

If planting winter wheat or barley following soybeans, soil must be tilled prior to planting these crops, if soybeans were furrow irrigated. Set tillage equipment to cut 4 to 6 inches deep when breaking down beds and blending soil after soybean harvest and prior to winter wheat / barley planting.

Tank Mixes – See **TANK MIXES FOR SOYBEANS** section, below **WEEDS CONTROLLED** chart.

#### RESTRICTIONS

- **DO NOT** apply more than 4 fl. oz./product per acre (0.063 lbs. ai/A) in a single application
- **DO NOT** apply more than 4 fl. oz./product per acre (0.063 lbs. ai/A) per year
- **DO NOT** apply more than 3 fl. oz./ product per acre (0.047 lbs. ai/A) per year in ND and MN (north of Highway #210)
- **DO NOT** make more than one application of **Avalaire Imazethapyr 2 SL** per year
- Preharvest Interval – 85 days

- **DO NOT** feed or graze livestock on soybean forage, hay or straw
- Soybeans can be replanted (upon the occasion of crop loss) immediately following an application of **Avalaire Imazethapyr 2 SL**, however upon replanting, soil is not to be worked to a depth greater than 2 inches.
- Not for use in the State of California
- In the State of North Dakota and in the State of Minnesota, north of Highway #210, observe listed application timing and rate restrictions

**WEEDS CONTROLLED**

**Avalaire Imazethapyr 2 SL** will control or suppress the following listed weeds, when used as instructed on this label. See **ADDITIVES** section of label for information regarding additives that can enhance effectiveness of this product if weeds are under stress or at their higher growth stage limit.

	Preplant, Preemergence	Postemergence	
		Maximum Leaf Stage <sup>1</sup>	Size (inches)
<b>Broadleaf Weeds</b>			
Alligator weed	--	4	1 to 3
Anoda, spurred	●	2	1 to 2
Artichoke, Jerusalem	--	8	6 to 10
Bristly starbur	--	2	1 to 2
Buffalobur	● <sup>4</sup>	S	1 to 3
Carpetweed	●	--	--
Cocklebur, common	S	8	1 to 8
Cocklebur, common (ND, MN) <sup>2,3</sup>	--	4	1 to 4
Galinsoga	●	--	--
Jimsonweed	● <sup>4</sup>	4	1 to 3
Kochia (non-ALS resistant)	●	4	1 to 3
Kochia (non-ALS resistant) (ND, MN) <sup>2</sup>	--	4	1 to 3
Lambsquarters, common <sup>5</sup>	● <sup>4</sup>	S	1 to 2
Mallow, Venice	S	--	--
Marshelder	●	4	1 to 3
Morningglory, entireleaf	S	2	1 to 2
ivyleaf	S	2	1 to 2
pitted	S	2	1 to 2
smallflower	●	4	1 to 3
tall	S	2	1 to 2
Mustard spp.	●	4	1 to 3
Mustard spp. (ND, MN) <sup>2</sup>	--	4	1 to 3
Nightshade, black	●	4	1 to 3
Eastern black	●	4	1 to 3
hairy	●	4	1 to 3
Nightshade, black (ND, MN) <sup>2</sup>	--	4	1 to 3
Eastern black (ND, MN) <sup>2</sup>	--	4	1 to 3
Hairy (ND, MN) <sup>2</sup>	--	4	1 to 3
Pigweed, redroot	●	8	1 to 8
smooth	●	8	1 to 8
spiny	●	8	1 to 8
Pigweed, redroot (ND, MN) <sup>2</sup>	--	4	1 to 4

	Preplant, Preemergence	Postemergence	
		Maximum Leaf Stage <sup>1</sup>	Size (inches)
Poinsettia, wild	●	--	--
Puncturevine	●	--	--
Purslane, common	●	--	--
Pusley, Florida	●	--	--
Ragweed, common	S	S	1 to 3
giant	S	S	1 to 3
Sage, barnyard	S	1 to 3	--
Sida, prickly	● <sup>4</sup>	--	--
Smartweed, ladysthumb	●	4	1 to 3
Pennsylvania	●	4	1 to 3
Spurge, prostrate	●	4	1 to 3
spotted	●	4	1 to 3
Sunflower	● <sup>4</sup>	4	1 to 3
Thistle, Canada	--	S	1 to 3
Velvetleaf	● <sup>4</sup>	4	1 to 3
Wild Oat (NM, MN) <sup>2</sup>	--	S(3)	1 to 4
<b>Grass Weeds and Sedges<sup>4,5</sup></b>			
Barnyardgrass	S	3	1 to 3
Crabgrass, large	S	3	1 to 3
smooth	S	3	1 to 3
Cupgrass, woolly <sup>6</sup>	--	3	1 to 3
Foxtail, giant	●	6	1 to 6
green	●	3	1 to 3
yellow	●	3	1 to 3
Goosegrass	S	--	--
Johnsongrass, rhizome	--	S	6 to 12
seedling	●	6	1 to 8
Millet, wild proso	S	S	1 to 3
Nutsedge, purple	S	S	1 to 3
yellow	S	S	1 to 3
Panicum, fall	S	--	--
Texas	S	--	--
Red rice	--	3	1 to 3
Shattercane	S	6	1 to 8
Signalgrass, broadleaf	S	4	1 to 8
Sorghum, alnum	S	6	1 to 3

● - Control (weeds are controlled when **Avalaire Imazethapyr 2 SL** is applied as indicated in the chart)

S – ‘Suppressed’ (**Avalaire Imazethapyr 2 SL** suppresses weed species so that reduced competition is achieved)

<sup>1</sup> When applying postemergent, spray leaves before they reach the number of leaves indicated in ‘Maximum Leaf Stage’ column

<sup>2</sup> Weeds controlled in ND and MN (north of Highway #210) – postemergence only. Note that wild oats are only controlled in ND and MN (north of Highway #210)

<sup>3</sup> Tank mix **Avalaire Imazethapyr 2 SL** with a herbicide containing acifluorfen for postemergence control of common cocklebur in ND and MN (north of Highway #210)

<sup>4</sup> When applying to indicated broadleaf weeds and grasses, a preplant incorporated application will result in more uniform and reliable control

<sup>5</sup> For optimum results, tank mix with a soil applied grass herbicide (such as one containing pendimethalin) if common lambsquarters or grass pressure is anticipated to be heavy

<sup>6</sup> Woolly cupgrass is only controlled once it has emerged

## TANK MIXES FOR SOYBEANS

To increase the weed control spectrum in soybeans, tank mix or sequentially apply **Avalaire Imazethapyr 2 SL** with another herbicide registered for use in soybeans, such as herbicides containing dimethenamid-P, pendimethalin or pyroxasulfone.

Tank mixing **Avalaire Imazethapyr 2 SL** with a soil applied herbicide such as a sulfentrazone herbicide, and making an application to soil, or postemergent to weeds can provide enhanced control of grass and broadleaf weeds, and can also provide residual, season-long control of many weeds. (Products containing sulfentrazone can only be soil applied in soybeans). Alternately, a postemergent application of **Avalaire Imazethapyr 2 SL** can be made to soybeans that were treated earlier with a sulfentrazone herbicide

Read and follow the label of each tank mix product used for precautionary statements, directions for use, rates and timings, and other restrictions.

**Restriction** – to tank mix **Avalaire Imazethapyr 2 SL** with clomazone herbicides (Note - **Avalaire Imazethapyr 2 SL** may be applied postemergence following a preplant or preemergent application of a clomazone herbicide).

**Grass Weeds** - For enhanced control of grass weeds and volunteer corn (particularly when infestations are heavy) or broadening the grass weed control spectrum in soybeans, consider tank mixing **Avalaire Imazethapyr 2 SL** with the selective postemergence herbicide sethoxydim (or another selective postemergence grass herbicide). Enhanced control can also be obtained if **Avalaire Imazethapyr 2 SL** and sethoxydim herbicides are applied sequentially. When applying sequentially, refer to each product’s label regarding application particulars (rates, weed sizes, etc.). Read and follow the label of each tank mix product used for precautionary statements, directions for use, rates and timings, and other restrictions.

**WEEDS CONTROLLED:** Sethoxydim (see product label for rates) + **Avalaire Imazethapyr 2 SL** (used at 4 fl. oz. product/A) (0.063 lb. ai/A)

<b>Annual Grass Weeds Controlled</b>	<b>Weed Size (inches)</b>
Crabgrass, large Crabgrass, smooth Goosegrass	3 to 6
Barnyardgrass Cupgrass, woolly Foxtail, giant Foxtail, green Foxtail, yellow Johnsongrass, seedling Junglerice Panicum, fall Panicum, Texas Signalgrass, broadleaf	3 to 8



<b>Annual Grass Weeds Controlled</b>	<b>Weed Size (inches)</b>
Sprangletop, red Witchgrass	
Shattercane	3 to 12
Corn, volunteer Wild proso millet	4 to 10

- Observe weed size indications for best results
- Use higher labeled rates of sethoxydim if a combination of grass weeds are present, or if grass weed pressure is high
- For optimum results, apply sethoxydim + **Avalaire Imazethapyr 2 SL** tank mix with crop oil concentrate and liquid fertilizer. See **ADDITIVES** section of label for information regarding these additives.
- Application of a sethoxydim / **Avalaire Imazethapyr 2 SL** tank mix can sometimes reduce the herbicidal activity of sethoxydim – to avoid reduction in activity, apply these products sequentially rather than in a tank mix – by delaying application of a sethoxydim product for 7 days after application of **Avalaire Imazethapyr 2 SL**, or waiting 3 days after a sethoxydim application before applying **Avalaire Imazethapyr 2 SL**

**Broadleaf Weeds** - For enhanced control of broadleaf weeds, or expanding the weed control spectrum of broadleaf weeds, **Avalaire Imazethapyr 2 SL** can be tank mixed with other herbicides, such as herbicide products containing bentazon, lactofen, cloransulam methyl, sodium salt of fomesafen, or acifluorfen. If tank mixing with a glyphosate herbicide, make certain to apply this tank mix only to Roundup Ready® soybeans.

For enhanced control of common and giant ragweed, consider tank mixing with a cloransulam methyl product.

For enhanced control of common lambsquarters, consider tank mixing **Avalaire Imazethapyr 2 SL** with soil applied grass herbicides such as pendimethalin or trifluralin. Or, for a particularly hard to control infestation, tank mix with a product containing thifensulfuron methyl. Take care when tank mixing a thifensulfuron-methyl product + **Avalaire Imazethapyr 2 SL**, as severe stunting or injury to soybeans can result particularly when weather is hot and humid (USER ASSUMES ALL HAZARDS AND OUTCOMES connected with such an application). Apply this tank mix when soybeans are at the 1 to 3 trifoliate growth stage only. When tank mixing, apply **Avalaire Imazethapyr 2 SL** at 4 fl. oz./A (0.063 lb. ai/A), and 1/24 oz./A of a 50% thifensulfuron-methyl product, along with a nonionic surfactant at 0.25% v/v (1 quart in 100 gallons spray solution) and either a liquid nitrogen based fertilizer at 1.25 – 2.5% v/v (1.25 to 2.5 gallons fertilizer in 100 gallons spray solution) or a spray grade ammonium sulfate at 12 to 15 lbs. in 100 gallons spray solution. See **ADDITIVES** section of label for information regarding these additives.

Tank mixing with or sequentially applying a product containing acifluorfen will optimize control of several broadleaf weeds. Rates of acifluorfen depend on weed size (be sure to read and follow acifluorfen product labeling for additional information regarding precautionary statements, directions for use, rates and timings, and other restrictions).

**WEEDS CONTROLLED:** Acifluorfen (2 lb. per gallon) + **Avalaire Imazethapyr 2 SL** (used at 4 fl. oz. product/A) (0.063 lb. ai/A)

Weed	Acifluorfen (2 lb./gal product) (fl. oz./A)		
	8 to 10	12 to 14	16 to 20
	Weed Size (inches)		
Common ragweed	1 to 4	4 to 6	6 to 8 <sup>1</sup>
Pigweed spp.			
Waterhemp, common			
Waterhemp, tall			
Giant ragweed	--	1 to 6	6 to 8 <sup>2</sup>

<sup>1</sup> If weed population is excessive, or if common ragweed is present, apply 16 - 20 fl. oz./A rate

<sup>2</sup> If giant ragweed is taller than 6 inches (but no taller than 8 inches), apply the 20 fl. oz./A rate

**WEEDS CONTROLLED:** **Avalaire Imazethapyr 2 SL** (used at 4.0 fl. oz./A) followed by Acifluorfen (2 lb. per gallon) (sequential)

Weed	Acifluorfen (2 lb./gal product) (fl. oz./A)		
	10 to 12	14 to 16	18 to 24
	Weed Size (inches)		
Common ragweed	1 to 4	4 to 6	6 to 8 <sup>1</sup>
Pigweed spp.			
Waterhemp, common			
Waterhemp, tall			
Giant ragweed	--	1 to 6	6 to 8 <sup>2</sup>

<sup>1</sup> If weed population is excessive, or if common ragweed is present, apply 18 - 24 fl. oz./A rate

<sup>2</sup> If giant ragweed is taller than 6 inches (but no taller than 8 inches), apply the 24 fl. oz./A rate

## EDAMAME (Vegetable Soybean)

### APPLICATION INSTRUCTIONS

Apply preplant, preemergence or early postemergence

Application Rate – 4.0 fl. oz./A (0.063 lb. ai/A)

Apply preplant, preemergence or early postemergence to edamame and weeds that are actively growing.

When applying early postemergence, make sure that edamame have not yet reached a height of 3 inches, and their growth stage is between first and third trifoliolate. When applying postemergent to edamame, add a nonionic surfactant to the spray mixture. See **ADDITIVES** section of label for information regarding surfactants

Be aware that use of **Avalaire Imazethapyr 2 SL** on edamame can result in injury or loss of crop. Contact edamame supplier prior to planting and inquire about the particular varieties response to imazethapyr, or user must evaluate their edamame crop response to **Avalaire Imazethapyr 2 SL**, to determine if it can be safely used.

### RESTRICTIONS

- **DO NOT** apply more than 4 fl. oz./product per acre (0.063 lbs. ai/A) in a single application

- **DO NOT** apply more than 4 fl. oz./product per acre (0.063 lbs. ai/A) per year
- **DO NOT** make more than one application of **Avalaire Imazethapyr 2 SL** per year
- Edamame can be replanted (upon the occasion of crop loss) immediately following an application of **Avalaire Imazethapyr 2 SL**, however upon replanting, soil is not to be worked to a depth greater than 2 inches.
- Not for use in the State of California

#### **WEEDS CONTROLLED**

See **WEEDS CONTROLLED** section in SOYBEANS use directions for weeds controlled at the 4 fl. oz./A (0.063 lb. ai/A) rate.

### **CONSERVATION RESERVE PROGRAM (CRP) and AGRICULTURAL RESERVE PROGRAM (Land Seeded to Forage Legume Cover Crops)**

#### **APPLICATION INSTRUCTIONS**

Apply postemergence

Application Rate – 4.0 fl. oz./A (0.063 lb. ai/A)

When applied to land set aside for Conservation Reserve Program and Agricultural Reserve Program that has been seeded to forage legume cover crops (alfalfa, birdsfoot trefoil, clover, crown vetch, kudzu, lespedeza, lupin, milk vetch, sainfoin, trefoil, velvet bean, vetch), **Avalaire Imazethapyr 2 SL** controls a wide range of annual grass and broadleaf weeds, and reduces weed competition in the field. Application of **Avalaire Imazethapyr 2 SL** can cause a short-lived decline in growth of forage legumes.

Apply postemergent, at indicated rate, to established legumes (make application in spring or fall) or to seedling legumes. To limit or avoid injury to seedling legumes, make sure that the legumes have at least 3 fully expanded trifoliolate leaves. Forage legume cover crops can be planted in fields where soybeans (treated with **Avalaire Imazethapyr 2 SL**) were previously grown, but make sure to avoid treating the cover crop with **Avalaire Imazethapyr 2 SL** until the next spring.

#### **RESTRICTIONS**

- **DO NOT** apply more than 4 fl. oz./product per acre (0.063 lbs. ai/A) in a single application
- **DO NOT** apply more than 4 fl. oz./product per acre (0.063 lbs. ai/A) per year
- **DO NOT** make more than one application of **Avalaire Imazethapyr 2 SL** per year

#### **WEEDS CONTROLLED**

See **WEEDS CONTROLLED** section in SOYBEANS use directions for weeds controlled at the 4 fl. oz./A (0.063 lb. ai/A) rate.

## STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Keep from freezing. **DO NOT** store below 32°F.

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

### CONTAINER HANDLING:

**Nonrefillable Container. DO NOT** reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying; then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

**Triple rinse containers small enough to shake (capacity ≤ 5 gallons) as follows:** Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

**Triple rinse containers too large to shake (capacity > 5 gallons) as follows:** Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Repeat this procedure two more times.

**Pressure rinse as follows:** Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank, or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

### Steps to take if material is released or spilled:

- Dike and contain the spill with inert material (sand, earth, etc.) and transfer liquid and solid diking material to separate containers for disposal.
- Remove contaminated clothing and wash affected skin areas with soap and water.
- Wash clothing before reuse.
- Keep the spill out of all sewers and open bodies of water.

## LIMITATIONS AND WARRANTIES

### Limitations Regarding Rotational Crops

#### Corn Inbred Seed Lines

Because cultural practices, environmental conditions and growing conditions are beyond the control of Avalaire, LLC, all hazards and outcomes associated with planting corn inbred seed lines into fields where **Avalaire Imazethapyr 2 SL** was previously applied, USER ASSUMES ALL HAZARDS AND OUTCOMES connected with such an application.

#### Sweet Corn and Popcorn

Because cultural practices, environmental conditions and growing conditions are beyond the control of Avalaire, LLC, all hazards and outcomes associated with planting sweet corn and popcorn varieties into fields where **Avalaire Imazethapyr 2 SL** was previously applied, USER ASSUMES ALL HAZARDS AND OUTCOMES connected with such an application.

### Limitations Regarding Use on Edible Legume Vegetables

**Avalaire Imazethapyr 2 SL** can cause crop injury or loss to edible legume crops. Avalaire, LLC strongly advises that growers and users test this product on your variety of edible legumes prior to use, and evaluate your crop response to **Avalaire Imazethapyr 2 SL**, to determine if it can be safely used. Avalaire, LLC provides this product to growers and users for use on edible legume vegetables specifically to the extent that the usefulness and benefit of using the product (in the sole opinion of the grower and user) offset the option of possible injury associated with the use of this product. Grower and user must weigh the possibility of crop injury from **Avalaire Imazethapyr 2 SL** use against the availability and price of other possible weed control agents, the level of weed infestation, and other aspects when determining whether or not to use **Avalaire Imazethapyr 2 SL** on edible legume vegetables. Because of the risks, Grower and User assume responsibility for all hazards and outcomes connected with such an application.

Avalaire, LLC does not accept any liability for claims, causes of action, penalties or fines, damages (including significant incidents and damages), losses, liabilities, judgements and expenditures resulting from or pertaining to injury to crops, property or persons associated with the use of **Avalaire Imazethapyr 2 SL** on edible legumes in a manner contrary to the instructions on this product label.

### LIMITATION OF WARRANTY AND LIABILITY

**IMPORTANT: READ BEFORE USE.** Read the entire Directions for Use, Conditions of Warranties and Limitations of Liability before using this product. If these terms and conditions are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following Disclaimer of Warranties and Limitations of Liability. **CONDITIONS:** The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Ineffectiveness, injury, and other unintended consequences may result because of such factors as manner of use or application (including misuse), the presence of other materials, weather conditions, and other unknown factors, all of which are beyond the control of AVALAIRE, LLC. To the extent consistent with applicable law, all such risks shall be assumed by the user or buyer.

**DISCLAIMER OF WARRANTIES:** To the extent consistent with applicable law, AVALAIRE, LLC makes no other warranties, express or implied, of merchantability or of fitness for a particular purpose or otherwise, that extend beyond statements on this label. **LIMITATIONS OF LIABILITY:** To the extent consistent with applicable law, neither AVALAIRE, LLC the manufacturer, nor the Seller shall be liable for any indirect, special, incidental or consequential damages resulting from the use, handling, application, storage, or disposal of this product. To the extent consistent with applicable law, the exclusive remedy of the user or buyer for any and all losses, injuries or damages resulting from the use, handling, application, or storage of this product, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price paid.

[**Avalaire Imazethapyr 2 SL**] is a trademark of Avalaire, LLC

Clearfield, is a registered trademark of BASF.

Roundup Ready is a registered trademark of Monsanto Agricultural Company.

**{LANGUAGE ON LABEL AFFIXED TO CONTAINER}**

**GROUP 2 HERBICIDE**

**Avalaire Imazethapyr 2 SL**

[Alternate Brand Name: Pannix 2 SL]

[For use on alfalfa, birdsfoot trefoil, clover, edamame, edible legumes (beans and peas), peanut, and soybean.]

<b>ACTIVE INGREDIENT:</b>	<b>(% by weight)</b>
ammonium salt of imazethapyr: (±)-2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-5-ethyl-3-pyridinecarboxylic acid*.....	22.87%
<b>OTHER INGREDIENTS:</b> .....	<u>77.13%</u>
<b>TOTAL</b> .....	<b>100.0%</b>

\*Equivalent to 21.6% (±)-2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-5-ethyl-3-pyridinecarboxylic acid

1 gallon contains 2.0 pounds of active ingredient as the free acid.

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION/PRECAUCIÓN**

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>FIRST AID</b>	
<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</li> </ul>
<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>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 SafetyCall at <b>1-844-685-9173</b> for emergency medical treatment information.	

**For Chemical Emergency:**

**Spill, Leak, Fire, Exposure, or Accident, Call CHEMTREC Day or Night  
Within USA and Canada: 1-800-424-9300 or +1 703-527-3887 (collect calls accepted)**

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION**

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

**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** contaminate water when disposing of equipment washwater or rinsate.

**SURFACE WATER ADVISORY STATEMENT:** This product may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having high potential for reaching surface water via runoff for several months or more after application.

A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of imazethapyr from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall or irrigation is expected to occur within 48 hours.

**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 site. Protect the forage and habitat of non-target organisms by following label directions intended to minimize spray drift.

**PHYSICAL OR CHEMICAL HAZARDS: DO NOT** mix or allow coming in contact with oxidizing agents. Hazardous chemical reactions may occur.

**STORAGE AND DISPOSAL**

**DO NOT** contaminate water, food, or feed by storage or disposal.  
**PESTICIDE STORAGE:** Keep from freezing. **DO NOT** store below 32°F.  
**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on-site or at an approved waste disposal facility.  
**CONTAINER HANDLING:**  
**Nonrefillable Container. DO NOT** reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying; then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.  
**Triple rinse containers small enough to shake (capacity ≤ 5 gallons) as follows:** Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.  
**Triple rinse containers too large to shake (capacity > 5 gallons) as follows:** Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Repeat this procedure two more times.  
**Pressure rinse as follows:** Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank, or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

See inside label booklet for additional Precautionary Statements and Directions for Use.

Manufactured for:  
**Avalaire, LLC**  
 1204 Village Market Place, #173  
 Morrisville, NC 27560

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