



U.S. ENVIRONMENTAL PROTECTION AGENCY

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

EPA Reg. Number:

93930-55

Date of Issuance:

6/28/21

NOTICE OF PESTICIDE:

Registration
 Reregistration
(under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

Avalaire S-Metolachlor +
Metribuzin + Fomesafen

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 (FIFRA).

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 conditionally registered in accordance with FIFRA section 3(c)(7)(A). You must comply with the following conditions:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data.

Continued on page 2

Signature of Approving Official:

Mindy Ondish, Product Manager 23
Herbicide Branch, Registration Division (7505P)

Date:

6/28/21

2. You are required to comply with the data requirements described in the generic data call-ins (GDCIs) identified below:
 - a. Metribuzin GDCI-101101-1304 and GDCI 101101-1825

You must comply with all of the data requirements within the established deadlines. If you have questions about the GDCIs listed above, you may contact the Chemical Review Manager in the Pesticide Reevaluation Division: <http://iaspub.epa.gov/apex/pesticides/f?p=chemicalsearch:1>

3. Submit one copy of the 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 FIFRA 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 you fail to satisfy these data requirements, EPA will consider appropriate regulatory action including, among other things, cancellation under FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records.

Please note that the alternate brand name, "**Sutora**" has been added to the product record.

Please also note that the record for this product currently contains the following CSF:

- Basic CSF dated 12/15/2020

If you have any questions, you may contact Jamie Harrington by email at harrington.jamie@epa.gov.

Enclosure

[Note to reviewer: [Text] in brackets denotes optional or explanatory language
 [Note to reviewer: {Text} in braces denotes where in the final label text will appear
 {BOOKLET FRONT PANEL LANGUAGE}]

S-METOLACHLOR	GROUP	15	HERBICIDE
METRIBUZIN	GROUP	5	HERBICIDE
FOMESAFEN	GROUP	14	HERBICIDE

AVALAIRE S-METOLACHLOR + METRIBUZIN + FOMESAFEN^[TM]

[Alternate Brand Name: Sutora]

[Herbicide for preemergent control of certain grasses and broadleaf weeds in Soybeans]

ACTIVE INGREDIENTS:	(% by weight)
S-Metolachlor*	36.29%
Metribuzin**	8.05%
Fomesafen***	7.16%
OTHER INGREDIENTS:	<u>48.5%</u>
TOTAL	100.0%

*contains 3.39 lb of S-metolachlor per gallon
 **contains 0.75 lb of metribuzin per gallon
 ***contains 0.67 lb of fomesafen acid per gallon

KEEP OUT OF REACH OF CHILDREN CAUTION

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.)

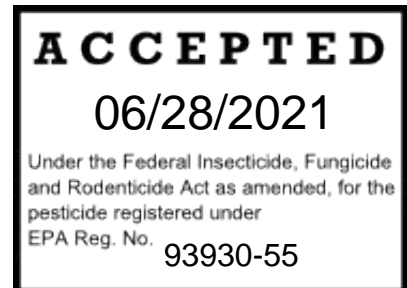
See [below] [inside label booklet] for [additional] [First Aid,] [Precautionary Statements] and [Directions for Use].

EPA Reg. No.: 93930-55

EPA Est. No.:

Net Weight:

Manufactured for:
Avalaire, LLC
 1204 Village Way, #173
 Morrisville, NC 27560



{LANGUAGE INSIDE BOOKLET}

FIRST AID	
If swallowed:	<ul style="list-style-type: none">• Call a poison control center or doctor immediately for treatment advice.• Have person sip a glass of water if able to swallow.• Do not induce vomiting unless told to do so by the poison control center or doctor.• Do not give anything by mouth to an unconscious person.
If on skin or clothing:	<ul style="list-style-type: none">• Take off contaminated clothing.• Rinse skin immediately with plenty of water for 15-20 minutes.• Call a poison control center or doctor for treatment advice.
If in eyes:	<ul style="list-style-type: none">• Hold eye open and rinse slowly and gently with water for 15-20 minutes.• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.• Call a poison control center or doctor for treatment advice.
If inhaled:	<ul style="list-style-type: none">• Move person to fresh air.• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.• Call a poison control center or doctor for further treatment advice.
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact SafetyCall at 1-844-685-9173 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 swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

Personal Protective Equipment (PPE)

Mixers, loaders, applicators, flaggers and other handlers must wear:

- Protective eyewear
- Coveralls worn over short-sleeved shirt and short pants
- Chemical-resistant gloves made out of Butyl Rubber \geq 14 mils, Nitrile Rubber \geq 14 mils, or Viton \geq 14 mils
- Chemical-resistant footwear plus socks
- Chemical-resistant apron when cleaning equipment, mixing and loading

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Controls

Mixers and loaders supporting aerial applications are required to use closed systems. The closed system must be used in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.607(d)).

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.607 (d-f)] the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

Users should:

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

ENVIRONMENTAL HAZARDS

Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. 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 washwaters or rinsate. Do not apply when weather conditions favor drift from target area.

Surface Water Advisory

S-metolachlor has the potential to contaminate surface water through ground spray drift. This product may impact surface water quality due to spray drift and 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 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 fomesafen and S-metolachlor from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours. See the manual for "Conservation Buffers to Reduce Pesticide Losses" at the following internet address:
<http://www.wsi.nrcs.usda.gov/products/W2Q/pest/core4.html>.

Ground Water Advisory

Metribuzin is a chemical which can travel (seep or leach) through soil and can contaminate ground water which may be used as drinking water. Metribuzin has been found in ground water as a result of agricultural use. Users are advised not to apply metribuzin where the water table (ground water) is close to the surface, and where the soils are very permeable i.e. well-drained soils such as loamy sands. Your local agricultural agencies can provide further information on the type of soil in your area and the location of ground water.

S-metolachlor and fomesafen are known to leach through soil into ground water under certain conditions as a result of label use. These chemicals may leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow.

Non-target Organism Advisory Statement

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.

Mixing/Loading Instructions

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

Check-valves or anti-siphoning devices must be used on all mixing and/or irrigation equipment. This product may not be mixed or loaded within 50 feet of any wells (including abandoned wells and drainage wells) sink holes, 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 either 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 specified 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.

PHYSICAL OR CHEMICAL HAZARDS

Do not mix or allow contact with an oxidizing agent, as a hazardous chemical reaction may occur.

DIRECTIONS FOR USE

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

AVALAIRE S-METOLACHLOR + METRIBUZIN + FOMESAFEN must be used only in accordance with directions on this label or in separately published EPA accepted supplemental labeling directions for this product.

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 restrictions precautions and limitations on this label as well as on the labels of products used in combination with this product.

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

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

Exception: If the product is 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 over short-sleeve shirt and short pants
- Protective eyewear
- Chemical-resistant gloves made of Butyl Rubber \geq 14 mils, Nitrile Rubber \geq 14 mils, or Viton \geq 14 mils
- Chemical-resistant footwear plus socks

Failure to follow the directions for use and precautions on this label may result in poor weed control, crop injury, or illegal residues.

Note: Not for sale, use, or distribution in Nassau County or Suffolk County, New York.

PRODUCT INFORMATION

AVALAIRE S-METOLACHLOR + METRIBUZIN + FOMESAFEN kills weeds by root and/or foliage uptake and rapid translocation to the growing points. Adequate soil moisture is important for optimum activity of this product. When adequate soil moisture is present, this product will provide residual control of susceptible germinating weeds, activity on established weeds will depend on the weed species and the location of its root system in the soil.

MODE OF ACTION

AVALAIRE S-METOLACHLOR + METRIBUZIN + FOMESAFEN is a mixture of the active ingredients S-metolachlor, metribuzin and fomesafen.

- S-Metolachlor is a biosynthesis inhibitor (Group 15 mode of action) preventing cell division in emerging weeds.
- Metribuzin is a photosystem II inhibitor (Group 5 mode of action) leading to cellular membrane disruption and plant death.
- Fomesafen is a protoporphyrinogen oxidase inhibitor (Group 14 mode of action) leading to cellular membrane disruption and plant death.

Use of this product in accordance with label directions is expected to result in normal growth of rotational crops in most situations, however, various environmental and agronomic factors make it impossible to eliminate all risks associated with the use of this product. Therefore, rotational crop injury is always possible.

WEED RESISTANCE MANAGEMENT

For resistance management, please note that **AVALAIRE S-METOLACHLOR + METRIBUZIN + FOMESAFEN** contains a Group 15, a Group 14, and a Group 5 herbicide. Any weed population may contain plants naturally resistant to Group 15 and/or Group 14 and/or Group 5 herbicides. The resistant individuals may dominate the weed population if these herbicides are used repeatedly in the same fields. Appropriate resistance-management strategies should be followed.

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

- Rotate the use of **AVALAIRE S-METOLACHLOR + METRIBUZIN + FOMESAFEN** or other Group 15 and/or Group 5 and/or Group 14 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 Avalaire, LLC.

Additional Best Management Practices include:

- Plant into weed-free fields and keep fields as weed-free as possible.
- Fields with difficult to control weeds should be rotated to crops that allow the use of herbicides with alternative mechanisms of action or different management practices.
- To the extent possible do not allow weed escapes to produce seeds, roots or tubers. Manage weed seeds at harvest and postharvest to prevent a buildup of the weed seed-bank.
- Prevent field-to-field and within-field movement of weed seed or vegetative propagules. Thoroughly clean plant residues from equipment before leaving fields.
- Prevent an influx of weeds into the field by managing field borders.
- Identify weeds present in the field through scouting and field history and understand their biology. The weed control program should consider all of the weeds present.
- Difficult to control weeds may require sequential applications of herbicides with differing mechanisms of action.
- Apply this herbicide at the correct timing and rate needed to control the most difficult weed in the field.
- Use a broad-spectrum soil-applied herbicide with a mechanism of action that differs from this product as a foundation in a weed-control program. Do not use more than two applications of this or any other herbicide with the same mechanism of action within a single growing season unless mixed with an herbicide with another mechanism of action with an overlapping spectrum for the difficult-to-control weeds.
- If resistance is suspected, treat weed escapes with an herbicide with a different MOA or use non-chemical methods to remove escapes.

Report any incidence of non-performance of this product against a particular weed species to your Avalaire, LLC retailer, representative or call 984-465-4754. If resistance is suspected, treat weed escapes with an herbicide having a different mechanism of action and/or use non-chemicals means to remove escapes, as practical, with the goal of preventing further seed production.

Contact your local sales representative, crop advisor, or extension agent to find out if suspected resistant weeds to these MOAs have been found in your region. Do not assume that each listed weed is being controlled by multiple mechanisms of action. Co-formulated active ingredients are intended to broaden the spectrum of weeds that are controlled. Some weeds may be controlled by only one active ingredient in this product.

MANDATORY SPRAY DRIFT MANAGEMENT

Aerial Applications:

- Do not release spray at a height greater than 10 ft above the 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 S641).
- For all other applications, applicators are required to use a medium or coarser droplet size (ASABE S572).
- For aerial applications: Do not apply when wind speeds exceed 15 mph at the application site. If the wind speed 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. Applicators must use ½ swath displacement upwind at the downwind edge of the field.
- If the wind speed is 10 miles per hour or less, applicators must use ½ swath displacement upwind at the downwind edge of the field. When the wind speed is between 11-15 miles per hour, applicators must use ¾ swath displacement upwind at the downwind edge of the field.
- Nozzles must be oriented so the spray is directed toward the back of the aircraft.
- Do not apply 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 S641).
- For all other applications, applicators are required to use a medium or coarser droplet size (ASABE S572).
- 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 NON-TARGET 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 – Ground Boom

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

Use the lowest boom height that is compatible with the spray nozzles that will provide uniform coverage. 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.

APPLICATION WITH HERBICIDE SPRAY EQUIPMENT

Use a standard low-pressure (20 to 40 psi) herbicide boom sprayer equipped with suitable nozzles and screens no finer than 50-mesh in nozzle and in-line strainers. Agitate thoroughly before and during application with bypass agitation. Low pressure and high volume hand wand equipment is prohibited.

Ground Application

Apply the proper rate of this product in a minimum of 10 to 40 gallons of spray mixture per acre broadcast.

Aerial Application

Where permitted, apply specified rate in a minimum of 5 gallons of spray mixture per acre. Do not apply aerially when wind speed is greater than 15 mph.

For All Applications

Sprayer must be accurately calibrated before applying this product. Check sprayer during application to be sure it is working properly and delivering a uniform spray pattern. As the volume of spray mixture decreases per acre the importance of accurate calibration and uniform application increases.

Avoid overapplication misapplication, and boom and spray swath overlapping that will increase spray dosage. (Crop injury may occur as a result). Avoid spray skips and gaps which allow weeds to grow in untreated soil. Do not apply

when weather conditions favor spray drift and/or when sensitive or cool season crops (such as cole crops, onions, peas or strawberries) are present in adjacent fields or in areas where wheat is growing in coarse-textured soils.

Sprayer Cleanup

Spray equipment must be thoroughly cleaned to remove remaining traces of herbicide that might injure other crops to be sprayed. Drain any remaining spray solution of this product from the spray tank and dispose of according to label disposal instructions. Rinse the spray tank and refill with water, adding a heavy-duty detergent at the rate of one cup per 20 gallons of water. Recycle this mixture through the equipment for 5 minutes and spray out. Repeat this procedure twice. Fill the spray tank with clean water, recycle for 5 minutes, and spray out. Clean pump and nozzle screens thoroughly. Wash away any spray mixture from the outside of spray tank, nozzles or spray rig. All rinse water must be disposed of in compliance with local, state and Federal guidelines.

MIXING INSTRUCTIONS

Incorporation and Combination Uses

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.

When using this product, make sure the sprayer is completely clean, and free of rust or corrosion which occurs from winter storage. Examine strainers and screens to be sure the sprayer is clean from previously used pesticides.

Any tank mix containing this product must be kept agitated and sprayed out immediately. Do not allow tank mixes to stand for prolonged periods of time

The proper mixing procedure for this product alone or in tank-mix combinations with other herbicides is:

1. Fill the spray tank 1/4 to 1/3 full with clean water
2. Add specified rate of this product while recirculating and with agitator running
3. Mix thoroughly and add clean water to fill spray tank to desired level
4. Add the other herbicide to tank last and agitate thoroughly
5. Continue agitation during application and until sprayer tank is empty

Application of AVALAIRE S-METOLACHLOR + METRIBUZIN + FOMESAFEN in Fluid Fertilizers

This product may be applied in fluid fertilizer solutions by following the appropriate mixing procedures and compatibility check. When using tank mix combinations be sure all components are compatible.

Tank Mixing Guidelines for Fluid Fertilizer Mixtures

1. Add the required amount of water and compatibility agent (if required) to the tank. Start agitation system while adding this product and follow by adding the fluid fertilizer and agitate.
2. If a second herbicide is also to be used, follow as above in Step 1, but use twice the amount of water. Start agitation, add **AVALAIRE S-METOLACHLOR + METRIBUZIN + FOMESAFEN**. Follow by adding the second herbicide, then continue filling the tank with fluid fertilizer.
3. Maintain continuous agitation to assure uniform spray mixture until the tank is emptied.

Make compatibility checks of this product plus fluid fertilizers and tank-mix combinations plus fluid fertilizers which include this product for each batch because of the variability of fluid fertilizers.

THE FOLLOWING COMPATIBILITY CHECK SHOULD ONLY BE USED WHEN MIXING WITH FLUID FERTILIZERS

1. Pre-mix 8 teaspoons of water with 2 teaspoons of this product (4:1 ratio) in a quart jar by adding the water first and following with this product. Mix thoroughly. If a second herbicide is to be used, double the amount of water (8:1 ratio), mix in this product, and follow with the second herbicide.
2. Then pour 1 pint of fluid fertilizer into the quart jar and shake well.

3. Allow to stand for 5 minutes.

Interpretation of Results

If the solution in the jar appears to be uniform without signs of agglomeration, or without a separation of an oily film on top of the fertilizer, the mixture may be used. If not, repeat the compatibility check using twice the amount of water or add a compatibility agent to the water. If separation occurs but the mixture can be resuspended by shaking, then application is possible with good agitation in the spray tank.

SOYBEAN APPLICATION DIRECTIONS

This product may be applied:

- Preplant incorporated, or
- Preplant surface or preemergent surface, or
- As a sequential preemergent application

Refer to Tables below for specific use directions.

This product may also be used as an overlay application following a preplant incorporated application of a grass herbicide registered for this same use, and in tank mix combinations for burndown weed control.

All applications may be applied with ground equipment, and some may be applied with aerial spray equipment.

Restrictions

- Do not exceed the maximum application rate of 4.48 pints of **AVALAIRE S-METOLACHLOR + METRIBUZIN + FOMESAFEN** per acre per use season (equivalent to 0.375 lb fomesafen, 1.9 lb S-metolachlor, and 0.42 lb metribuzin). Do not exceed this amount in any use pattern single application replant or sequential application.
- Do not exceed a total of 2.5 lb metolachlor or S-metolachlor per acre per year from this or any other products containing metolachlor or S-metolachlor.
- Do not exceed a total of 0.375 lb fomesafen per acre per year in Region 1 (see Regional Use Map) when using additional products containing fomesafen (ex, Top Gun (fomesafen, EPA Reg. No. 34704-1058), Flexstar (fomesafen, EPA Reg. No. 100-1101), Prefix (S-metolachlor + fomesafen, EPA Reg. No. 100-1268) or Reflex (fomesafen, EPA Reg. No. 100-993)
- Do not exceed a total of 0.375 lb fomesafen per acre in ALTERNATE years in Region 2 (see Regional Use Map) when using additional products containing fomesafen (ex, Top Gun, Flexstar, Prefix or Reflex)
- Do not exceed a total of 0.313 lb fomesafen per acre in ALTERNATE years in Region 3 (see Regional Use Map) when using additional products containing fomesafen (ex, Top Gun, Flexstar, Prefix, or Reflex)
- Do not exceed a total of 0.25 lb fomesafen per acre in ALTERNATE years in Region 4 (see Regional Use Map) when using additional products containing fomesafen (ex, Top Gun, Flexstar, Prefix, or Reflex)
- Do not apply this product in Region 5
- Do not apply this product through any type of irrigation system.
- Do not harvest within 90 days of the last application of **AVALAIRE S-METOLACHLOR + METRIBUZIN + FOMESAFEN**
- Do not graze or feed treated soybean forage, hay or straw to livestock.
- Only soybeans may be planted immediately after harvest follow instructions under CROP ROTATION INTERVALS for all other crops.
- Do not allow sprays to drift onto adjacent desirable plants.
- Do not apply under conditions which favor runoff or wind erosion of soil containing this product to non-target areas.
- To prevent off-site movement due to run-off or wind erosion
 - Avoid treating powdery dry or light sand soils when conditions are favorable for wind erosion. Under these conditions, the soil surface should first be settled by rainfall or irrigation.

- Do not apply to impervious substrates such as paved or highly compacted surfaces.
- Do not use tailwater from the first flood or furrow irrigation of treated fields to treat non-target crops unless at least 1/2 inch of rainfall has occurred between application and the first irrigation.
- Do not apply using low-pressure and high-volume hand-wand equipment.
- Observe all restrictions, precautions and limitations on labeling of all products used in mixtures.

Soil Texture and Rate Ranges

As used on this label,

- "Coarse soils" are loamy sand or sandy loam soils.
- "Medium soils" are loam silt loam, silt, sandy clay or sandy clay loam.
- "Fine soils" are silty clay, silty clay loam, clay or clay loam.

Silty clay loam soils are transitional soils and may be classified as medium-textured soils in some regions of the U.S.

Where a rate range is shown, use a lower rate on soils that are coarse-textured and/or low in organic matter. Use a higher rate on soils that are relatively fine-textured and/or high in organic matter.

Precautions

Injury to soybeans may occur when this product is used under the following conditions

1. When soils have a calcareous surface area or a pH of 7.5 or higher
2. When applied in conjunction with soil-applied organic phosphate pesticides
3. With over-application or boom overlapping, which may result in stand loss and soil residues
4. With uneven application or improper incorporation which can decrease the level of weed control and/or increase the level of injury
5. When applied to any soil with less than 0.5% organic matter
6. When soil incorporation is deeper than recommended
7. When sprayers are not calibrated accurately
8. When heavy rains occur soon after application, especially in poorly drained areas where water may stand for several days
9. When soybeans are planted less than 1.5 inches deep, particularly in preemergence application
10. Where high soil levels of atrazine are present
11. When using poor quality soybean seed

Certain soybean varieties are sensitive to Metribuzin. Prior to use of this product, consult your soybean seed supplier for more information on the tolerance of soybean varieties to **AVALAIRE S-METOLACHLOR + METRIBUZIN + FOMESAFEN**.

Activation

A minimum amount of soil moisture is required to activate this product. In areas of low rainfall preemergence, applications to dry soil should be followed with light irrigation of 0.25 acre-inch of water. Do not apply heavy irrigation immediately after application. As with many surface-applied herbicides weed control and crop tolerance may vary with rainfall and/or soil texture.

Replanting

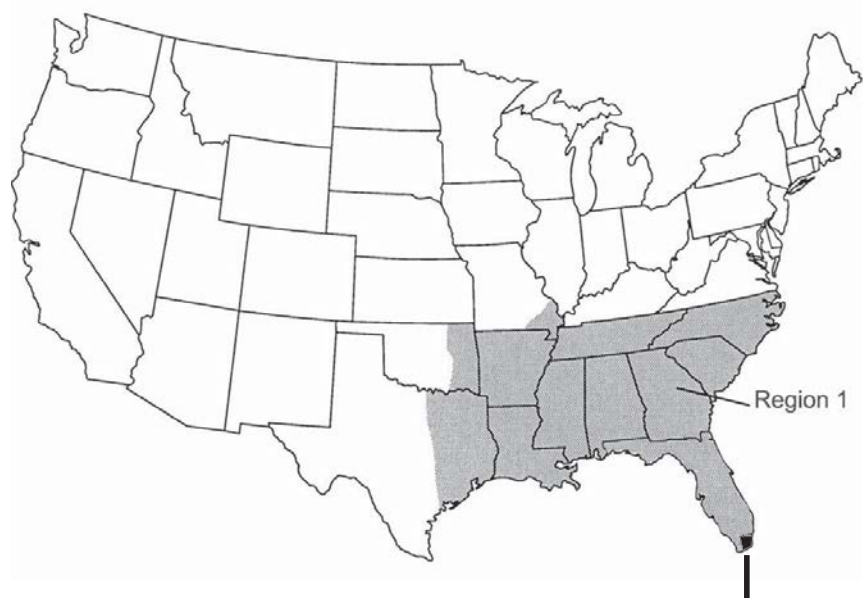
If replanting is necessary in fields treated with this product as directed on this label, the field may be replanted to soybeans. Rework the soil no deeper than the treated zone.

Replanting Restrictions

- Do not apply more than once per season except where permitted as part of a sequential application as injury to soybeans may occur.
- Do not apply a second application of **AVALAIRE S-METOLACHLOR + METRIBUZIN + FOMESAFEN** or any product that contains metolachlor, metribuzin, fomesafen, or S-metolachlor as crop injury or illegal residues may occur in harvested soybeans.
- Maximum application rate is 4.48 pints of **AVALAIRE S-METOLACHLOR + METRIBUZIN + FOMESAFEN** per acre per use season (equivalent to 0.375 lb fomesafen 1.90 lb S-metolachlor and 0.42 lb metribuzin). Follow lower regional maximum rates where applicable (see maps below). Do not exceed these amounts in any use pattern single application, replant or sequential application.

Region Boundaries/Definitions

REGION 1



Not For Use in
Miami Dade County, FL

Region 1 - Includes the following states or portion of states where **AVALAIRE S-METOLACHLOR + METRIBUZIN + FOMESAFEN** herbicide may be applied: Alabama, Arkansas, Florida (except Miami-Dade County), Georgia, Louisiana, Mississippi, Missouri (counties of Bollinger, Butler, Cape Girardeau, Dunklin, Madison, Mississippi, New Madrid, Pernisot, Perry, Ripley, Scott, Stoddard, and Wayne), North Carolina, Oklahoma (East of U.S. Highway 75 and East of Indian Nation Parkway), South Carolina, Tennessee, and Texas (includes area East of U.S. Highway 77 to State Road 239 including all of Calhoun County).

Maximum application rate from all products containing fomesafen must not exceed 0.375 lb AI/A per year in Region 1

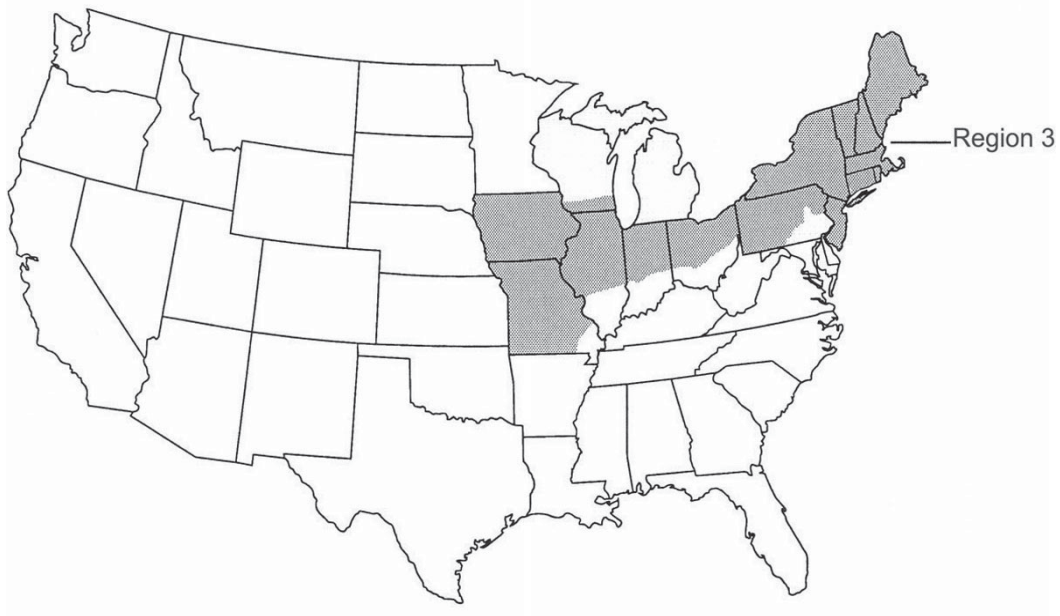
REGION 2



Region 2 - Includes the following states or portion of states where **AVALAIRE S-METOLACHLOR + METRIBUZIN + FOMESAFEN** herbicide may be applied: Delaware, Kentucky, Maryland, Virginia, West Virginia, South of Interstate 70 in the following states: Illinois, Indiana, and Ohio and all areas South of Interstate 80 to the intersection of U.S. Highway 15 and East of U.S. Highway 15 and U.S. Highway 522 in Pennsylvania.

Maximum application rate from all products containing fomesafen must not exceed 0.375 lb AI/A in alternate years in Region 2

REGION 3



Region 3 - Includes the following states or portion of states where **AVALAIRE S-METOLACHLOR + METRIBUZIN + FOMESAFEN** herbicide may be applied: Connecticut, Iowa, Maine, Massachusetts, Missouri (all counties except for those listed in Region 1), New Hampshire, New Jersey, New York, Pennsylvania (all areas except those listed in Region 2), Rhode Island, Vermont, and Wisconsin (South of U.S. Highway 18 between Prairie Du Chien and Madison and South of Interstate 94 between Madison and Milwaukee) and North of Interstate 70 in following states: Indiana, Illinois, and Ohio.

Maximum application rate from all products containing fomesafen must not exceed 0.313 lb AI/A in alternate years in Region 3

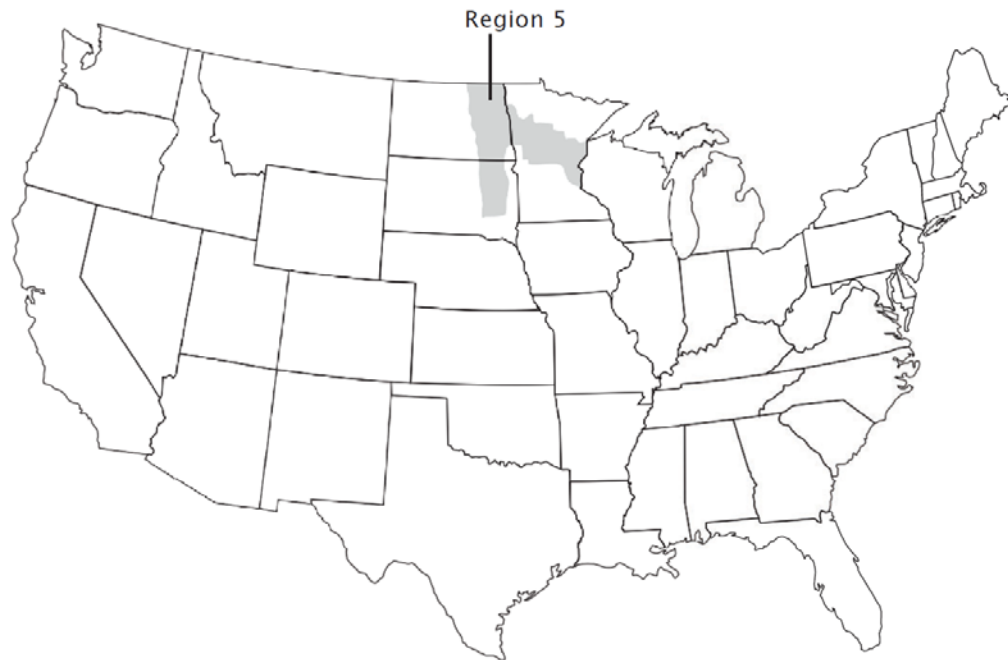
REGION 4



Region 4 - Includes the following states or portion of states where **AVALAIRE S-METOLACHLOR + METRIBUZIN + FOMESAFEN** herbicide may be applied: Kansas (all counties East of or intersected by U S Highway 281), Michigan (Southern Peninsula), Minnesota (all areas South of Interstate 94), Nebraska (all counties East of or intersected by US Highway 281), and Wisconsin (all areas except those in Region 3, South of Interstate 94 from Minnesota state line to Eau Claire and South of U.S. Highway 29 from Eau Claire to Green Bay, plus Barron, Chippewa, Clark, Door, Dunn, Eau Claire, Kewaunee, Marathon, Menominee, Oconto, Polk, Shawano, and St. Croix counties. The following counties are excluded: Adams, Marquette, Portage, Waupaca, Waushara, and Wood), North Dakota (all areas East of Interstate 29 from Fargo South to the South Dakota state line), South Dakota (all areas East of Interstate 29 from the North Dakota state line to Watertown, all areas East of Highway 81 from Watertown to Madison, and all areas East and South of State Road 34 and U.S. Highway 281 to the Nebraska state line).

Maximum application rate from all products containing fomesafen must not exceed 0.25 lb AI/A in alternate years in Region 4

REGION 5



REGION 5 - Includes the following states or portion of states where Intimidator herbicide may be applied: North Dakota (all areas East of U.S. Highway 281 except those areas in Region 4), South Dakota (all areas East of U.S. Highway 281 except those areas in Region 4) and Minnesota (all areas South of U.S. Highway 2 except those areas in Region 4).

Do not apply this product in Region 5.

TABLE 1: ANNUAL BROADLEAF WEEDS CONTROLLED BY AVALAIRE S-METOLACHLOR + METRIBUZIN + FOMESAFEN

C = Control S = Suppression or Erratic Control P = Poor or No Control	
Weed Controlled	Level of Control
Bristly Starbur (<i>Acanthospermum hispidum</i>)	C
Buffalobur (<i>Solanum rostratum</i>)	C
Carpetweed (<i>Mollugo verticillata</i>)	C
Cocklebur (<i>Xanthium pensylvanicum</i>)	S
Common Chickweed (<i>Stellaria media</i>)	C
Copperleaf, Hophornbeam (<i>Acalypha ostryifolia</i>)	C
Eclipta (<i>eclipta prostrata</i>)	C
Field Pennycress (<i>Thlaspi, arvense</i>)	C
Florida Beggarweed (<i>Desmodium tortuosum</i>)	C
Florida Pusley (<i>Richardia scabra</i>)	C
Galinsoga (<i>Galinsoga</i> spp)	C
Horseweed (Marestail) (<i>Conyza canadensis</i>)	S
Jimsonweed (<i>Datura stramonium</i>)	C
Knotweed (<i>Polygonum</i> spp)	C
Kochia (<i>Kochia scoparia</i>)	C
Lambsquarters (<i>Chenopodium</i> spp)	C
Morningglory	S
Entireleaf (<i>Ipomoea hederacea</i> var <i>integriuscula</i>)	S
Ivyleaf (<i>Ipomoea hederacea</i>)	S
Pitted (<i>Ipomoea lacunosa</i>)	C
Smallflower (<i>Jacquemontia tamnifolia</i>)	C
Tall (<i>Ipomoea purpurea</i>)	S
Nightshade	S
Black (<i>Solanum nigrum</i>)	C
Eastern Black (<i>Solanum ptycanthum</i>)	C
Hairy (<i>Solanum villosum</i>)	C
Pigweed (<i>Amaranthus</i> spp)	C
Poinsettia Wild (<i>Euphorbia cyathophora</i>)	C
Prickly Lettuce (<i>Lactuca serriola</i>)	C
Prickly Sida/Teaweed (<i>Sida spinosa</i>)	C
Purslane (<i>Portulaca oleracea</i>)	C
Ragweed	C
Common (<i>Ambrosia artemisiifolia</i>)	C
Giant (<i>Ambrosia trifida</i>)	S
Redweed (<i>melochia corchorifolia</i>)	C
Russian Thistle (<i>Salsola kali</i>)	C
Sesbania (<i>Sesbania</i> spp)	C
Shepherd's Purse (<i>Capsella bursa-pastoris</i>)	C
Sicklepod (<i>Cassia obtusifolia</i>) ¹	C
Smartweeds (<i>Polygonum</i> spp)	C
Ladysthumb (<i>Polygonum persicaria</i>)	C

¹For maximum control of sicklepod, use a preemergence application

TABLE 2: ANNUAL GRASSES AND SEDGES CONTROLLED BY AVALAIRE S-METOLACHLOR + METRIBUZIN + FOMESAFEN

C = Control	S = Suppression or Erratic Control	P = Poor or No Control
Weed Controlled		Level of Control
Barnyardgrass (<i>Echinochloa crus-galli</i>)		C
Bluegrass (<i>Poa annua</i>)		C
Broadleaf Signalgrass (<i>Brachiaria platyphylla</i>)		C
Browntop Millet (<i>Panicum ramosa</i>)		C
Crabgrass (<i>Digitaria</i> spp)		C
Crowfootgrass (<i>Dactyloctenium aegyptium</i>)		C
Cupgrass (<i>Eriochloa</i> spp)		C
Foxtails (<i>Setaria</i> spp)		C
Goosegrass (<i>Eleusine indica</i>)		C
Johnsongrass, Seedling (<i>Sorghum halepense</i>)		C
Junglence (<i>Echinochloa colona</i>)		C
Nutsedge		
Yellow (<i>Cyperus esculentus</i>)		S
Purple (<i>Cyperus rotundus</i>)		S
Panicum,		
Fall (<i>Panicum dichotomiflorum</i>)		S
Texas (<i>Panicum, texanum</i>)		S
Red Rice (<i>Oryza sativa</i>)		S
Sandbur (<i>Cenchrus</i> spp)		S
Shattercane (<i>Sorghum bicolor</i>)		S
Sorghum, Volunteer (<i>Sorghum</i> spp)		S
Sprangletop (<i>Leptochloa</i> spp)		P
Stinkgrass (<i>Eragrostis</i> spp)		P
Wheat, Volunteer (<i>Triticum</i> spp)		P
Witchgrass (<i>Panicum capillare</i>)		C

AVALAIRE S-METOLACHLOR + METRIBUZIN + FOMESAFEN USE RATES FOR CONVENTIONAL TILLAGE SYSTEMS

AVALAIRE S-METOLACHLOR + METRIBUZIN + FOMESAFEN used alone in Preplant Incorporated Application

Incorporate **AVALAIRE S-METOLACHLOR + METRIBUZIN + FOMESAFEN** uniformly into the top 2 inches of soil within 14 days before planting using a disk, field cultivator, rolling cultivator or similar equipment. Use incorporated application if furrow irrigation is used or when a period of dry weather after application is expected.

AVALAIRE S-METOLACHLOR + METRIBUZIN + FOMESAFEN used alone in Preemergence Application

When used alone, **AVALAIRE S-METOLACHLOR + METRIBUZIN + FOMESAFEN** can be applied as an aerial broadcast or as a ground broadcast. Application may be made during planting, or as a separate operation after planting, but must be made before crop emergence. If dry weather follows preemergence application, cultivate uniformly with shallow tilling equipment that will not damage soybeans.

Preemergence Application Restrictions

- Do not apply to sandy soils or to sandy loam or loamy sand soils containing less than 2% organic matter
- Do not incorporate into soil or apply more than once per season

TABLE 3: AVALAIRE S-METOLACHLOR + METRIBUZIN + FOMESAFEN RATES WHEN USED ALONE IN PREPLANT OR PREEMERGENCE APPLICATION

Soil Texture		Regions	Organic Matter		
			0.5 to 2.0%	2.1 to 3.0%	Over 3.0% ³
Pints of AVALAIRE S-METOLACHLOR + METRIBUZIN + FOMESAFEN Per Acre					
Coarse Soils¹	Sandy Loam	1, 2, 3, 4 ⁵	n/a ¹	2.4 ⁴	2.4 to 2.8
	Loamy Sand	1, 2, 3, 4 ⁵	n/a ¹	2.4 ⁴	2.4 to 2.8
Medium Soils (Loam, silt loam, silt, sandy clay, sandy clay loam)		1, 2, 3, 4 ⁵	2.8 to 3.2		3.2 to 3.7
Fine Soils (Silty clay, silty clay loam ² , clay, clay loam)		1, 2, 3, 4 ⁵	3.7 to 4.2 ⁶		4.2 to 4.48

¹ Do not use on sandy soils. On coarse-textured soils, do not use on sandy loam or loamy sand with less than 2% organic matter.

² Silty clay loam soils are transitional soils and may be classified as medium-textured soils in some regions of the U.S.

³ For preplant incorporated application, use the lower rate.

⁴ For AL, AR, FL, GA, LA, MS, MO, NC, OK, SC, TN, TX, VA, see section below In Coarse (Light) Soils

⁵ In Regions 2, 3 and 4, apply **AVALAIRE S-METOLACHLOR + METRIBUZIN + FOMESAFEN** in alternate years only. In years when **AVALAIRE S-METOLACHLOR + METRIBUZIN + FOMESAFEN** cannot be applied, a product such as Matador™ may be used. The rotation restrictions in Table 9 must be observed.

⁶ On soils with pH above 7.0, soybean injury caused by the metribuzin in this product may occur at rates higher than 2.5 pt/A. To avoid injury, do not use this product at rates greater than 2.5 pt/A on soils above pH 7.0.

In Coarse (Light) Soils

(Only in AL, AR, FL, GA, LA, MS, MO, NC, OK, SC, TN, TX, VA)

This product is may be used at the rates specified in Table 4 as a preplant incorporated or preemergence application in coarse-textured, low organic matter soils in the states listed above. Refer to Table 4 and to the appropriate sections of this label for specific directions on use and restrictions.

TABLE 4: AVALAIRE S-METOLACHLOR + METRIBUZIN + FOMESAFEN RATES WHEN USED ALONE IN PREPLANT OR PREEMERGENCE APPLICATIONS ON COARSE SOILS (Only in AL, AR, FL, GA, LA, MS, MO, NC, OK, SC, TN, TX, VA)

		Region	Organic Matter	
			0.5 to 1.0%	11% or above
Soil Texture		Region	Pints of AVALAIRE S-METOLACHLOR + METRIBUZIN + FOMESAFEN Per Acre ^{2,3}	
Coarse Soils	Sand	1,2 ⁴	n/a ¹	1.9 to 3.2
	Sandy loam, loamy sand	1,2 ⁴	1.9 to 3.2	1.9 to 3.2

¹ Do not use on sand with less than 1% organic matter.

² Use the higher rate under heavy weed pressure and/or soils higher in organic matter.

³ Follow regional use rate restrictions above.

⁴ In Region 2, apply **AVALAIRE S-METOLACHLOR + METRIBUZIN + FOMESAFEN** in alternate years only. In years when **AVALAIRE S-METOLACHLOR + METRIBUZIN + FOMESAFEN** cannot be applied, a product such as Matador may be used. The rotation restrictions in **Table 9** must be observed.

HERBICIDES THAT MAY BE APPLIED POSTEMERGENCE FOLLOWING AVALAIRE S-METOLACHLOR + METRIBUZIN + FOMESAFEN

If required, application of this product alone or in tank mixture may be followed by an application of a postemergence herbicide to provide additional control of certain weeds. The following postemergence herbicides may be applied.

Aim® (carfentrazone-ethyl, EPA Reg. No. 279-3241)	glyphosate herbicides ¹ (such as Makaze® (EPA Reg. No. 34704-890) or Mad Dog® (EPA Reg. No. 34704-889))
Arrow™ (clethodim, EPA Reg. No. 66222-60)	Harmony® GT XP (thifensulfuron, EPA Reg. No. 279-9577)
Assure® II (quizalofop-p-ethyl, EPA Reg. No. 5481-646)	Intensity® (clethodim, EPA Reg. No. 34704-864)
Basagran® or Biscayne™ (sodium salt of bentazon, EPA Reg. No. 66330-413, 91234-102)	Poast® (sethoxydim, EPA Reg. No. 7969-58)
Classic® (chlorimuron, EPA Reg. No. 352-436)	Poast Plus® (sethoxydim, EPA Reg. No. 7969-88)
Cobra® or Mamba™ (lactofen, EPA Reg. No. 74530-92, 91234 -169)	Top Gun™ (fomesafen, EPA Reg. No. 34704-1058)
FirstRate® or FrontRunner™ (cloransulam-methyl, EPA Reg. No. 62719-275, 91234-84)	Resource® (flumiclorac, EPA Reg. No. 59539-82)
Flexstar® (sodium salt of fomesafen, EPA Reg. No. 100-1101)	Rezult® B (sodium bentazon, EPA Reg. No. 7969-112)
Fusilade® DX (fluazifop-p-butyl, EPA Reg. No. 100-1070)	Storm® or Derecho™ BSC (sodium salt of bentazon plus sodium salt of acifluorfen, EPA Reg. No. 70506-59, 91234-192)
Frontrow® (cloransulam-methyl, EPA Reg. No. 62719-299)	Synchrony® XP ² (chlorimuron-ethyl plus thifensulfuron-methyl, EPA Reg. No. 352-648)
Fusion® (fluazifop-p-butyl plus fenoxaprop-p-ethyl, EPA Reg. No. 100-1059)	Ultra Blazer® or Derecho™ (sodium salt of acifluorfen, EPA Reg. No. 70506-60, 91234-108)

¹Use on Roundup-Ready® or glyphosate-tolerant soybean varieties only

²Use on STS™ soybean varieties only

Refer to the **Directions for Use** on this label and the individual product labels for use directions use rates, and special precautions and/or restrictions.

BURNDOWN WEED CONTROL

This product can be used as part of a burndown herbicide program for control of existing vegetation prior to soybean emergence in conservation tillage (reduced-tillage/no-till) systems. This product may be tank mixed with a 2,4-D low volatile ester (LVE) (such as Whiteout™ 2,4-D, 2-ethylhexyl ester of 2,4-dichlorophenoxyacetic acid, EPA Reg. No. 34704-1032) and/or glyphosate herbicides (such as Mad Dog and Makaze brands) for control of emerged weeds prior to crop emergence. Burndown tank mixes with **AVALAIRE S-METOLACHLOR + METRIBUZIN + FOMESAFEN** can be applied before planting or prior to crop emergence.

Application

This product may be applied up to 30 days before planting or preemergence. Apply only by ground equipment when this product is used for burndown of existing vegetation in conservation tillage systems. Use the high end of the rate range for applications of this product made 14 to 30 days before planting. Refer to Tables 3 and 4 for rates of **AVALAIRE S-METOLACHLOR + METRIBUZIN + FOMESAFEN** alone and to Table 5 for rates of tank mix partners.

TABLE 5 RATES OF TANK MIX PARTNERS TO BE USED IN COMBINATION WITH AVALAIRE S-METOLACHLOR + METRIBUZIN + FOMESAFEN FOR BURNDOWN APPLICATIONS

Product	Rate of Tank Mix Partner	Directions and Remarks
2,4-D LVE (Whiteout 2,4-D)	Refer to product label for use rates	Refer to product label for use rates and directions.
Glyphosate (Mad Dog or Makaze brands)	Refer to product label for use rates	Must be applied prior to crop emergence. Use the higher rates within the specified range as weeds approach the maximum weed heights listed in Table 6 . Apply in 10 to 20 gal of water per acre. Refer to the Mad Dog or Makaze label for spray adjuvant instructions. Any glyphosate formulation registered and labeled for use in soybeans may be tank mixed with this product.
Glyphosate (Mad Dog or, Makaze brands) + 2,4-D LVE (Whiteout 2,4-D)	Refer to the individual product labels for use rates	Follow the Directions and Remarks section above for Whiteout 2,4-D and Mad Dog/Makaze paying special attention to planting restrictions with Whiteout 2,4-D Refer to the Mad Dog or Makaze label for spray adjuvant instructions. Do not use crop oil concentrate (COC).

Restrictions

Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

- Do not apply these treatments after crop emergence.
- Apply only 2,4-D LVE formulations (such as Whiteout 2,4-D) that are registered for preplant or burndown use.

- Do not apply tank mixtures containing 2,4-D LVE (such as Whiteout 2,4-D) if wind is blowing toward desired susceptible plants (i.e., cotton, tobacco, tomato, etc.) or when wind speeds exceed 6 mph. Observe all precautions and restrictions of all products used in tank mixtures.
- Follow the most restrictive preharvest interval of all products used in a tank mixture.

Weeds Controlled

AVALAIRE S-METOLACHLOR + METRIBUZIN + FOMESAFEN in tank mixtures with the herbicides listed in Table 6 will provide burndown control of the weeds listed below.

TABLE 6: WEEDS CONTROLLED WITH TANK MIXES OF AVALAIRE S-METOLACHLOR + METRIBUZIN + FOMESAFEN IN BURNDOWN APPLICATION

Weeds Controlled	Whiteout 2,4-D	Mad Dog/Makaze	Mad Dog/Makaze + Whiteout 2,4-D
Annual Grasses	Maximum Burndown Height (Inches)		
Barley	Does not improve control of these species	8	
Barnyardgrass		6	
Crabgrass spp		6	
Foxtail spp		8	
Johnsongrass, Seedling		8	
Panicum, Fall		6	
Sandbur, Field		8	
Wheat, Volunteer		6	
Witchgrass		6	
Broadleaves		Maximum Burndown Height (Inches)	
Buffalobur		6	6
Chickweed Common	6	6	6
Cocklebur Common	6	6	8
Dandelion Common	6 dia ¹	2 dia ²	6 dia ¹
Henbit	4	4	4
Horseweed (Marestail)	6 ¹	4 ²	6
Jimsonweed	6	6	6
Kochia	4 ¹	4	4
Ladysthumb	6	6	8
Lambsquarters Common	6	6	8
Lettuce Prickly	6	4	6
Mallow Venice	6	6	6
Morningglory spp	6	2	4
Mustard spp	6	6	8
Pennycress Field	6	6	6
Pigweed spp (annual)	6	6	8
Ragweed, Common	6	6 ²	8
Ragweed, Giant	6 ¹	4 ²	6
Shepherd's Purse	6	6	6
Sida, Prickly	6	4	4
Smartweed, Pennsylvania	6	6	8
Sunflower, Common	6	6	6
Thistle, Russian	4 ¹	2-4 ²	4
Velvetleaf	6	6	8
Waterhemp spp	6	6	8

¹Refer to Whiteout 2,4-D label for use rate

²Refer to Mad Dog or Makaze labels for use rates

AVALAIRE S-METOLACHLOR + METRIBUZIN + FOMESAFEN USE RATES FOR REDUCED- AND NO-TILL SYSTEMS

Preplant Surface Application

AVALAIRE S-METOLACHLOR + METRIBUZIN + FOMESAFEN may also be used in reduced-till and no-till systems. Applications may be made up to 30 days before planting or after planting but before soybean emergence. Residual herbicides such as Canopy® (metribuzin + chlorimuron ethyl, EPA Reg. No. 352-444), FirstRate® or FrontRunner™, Command® (clomazone, EPA Reg. No. 279-3158), Python® [or JaRaka™ WDG (flumetsulam, EPA Reg. No. 62719-277, 91234-116)], and Stealth® (pendimethalin, EPA Reg. No. 34704-868) may be tank mixed for additional weed control. If weeds are present at time of application, burndown herbicides may be added to the tank mixes (see **Burndown Weed Control** section). Refer to the tank mix partner product labels for specific rates and use directions.

TABLE 7: AVALAIRE S-METOLACHLOR + METRIBUZIN + FOMESAFEN RATES FOR REDUCED AND NO-TILL SYSTEMS

Soil Texture¹	AVALAIRE S-METOLACHLOR + METRIBUZIN + FOMESAFEN (pints per acre)^{1,4}
COARSE ² (Loamy sand, sandyloam)	1.9 to 3.2
MEDIUM (Loam, silt loam silt, sandy clay, sandy clay loam)	3.2 to 4.48 ⁵
FINE (Silty clay, silty clay loam ³ , clay, clay loam)	4.48 ⁵

¹Use low rate in specified range for low residue level or soils with less than 3% organic matter. Use the higher rate in specified range for high residue level or soils with greater than 3% organic matter.

²Do not use on sand soils. On coarse-textured soils do not use on loamy sand soils with less than 2% organic matter.

³Silty clay loam soils are transitional soils and may be classified as medium-textured soils in some regions of the U.S. When using **AVALAIRE S-METOLACHLOR + METRIBUZIN + FOMESAFEN**, treat this soil as fine-textured.

⁴Follow regional use rate restrictions above In Regions 2, 3 and 4, apply **AVALAIRE S-METOLACHLOR + METRIBUZIN + FOMESAFEN** in alternate years only. In years when **AVALAIRE S-METOLACHLOR + METRIBUZIN + FOMESAFEN** cannot be applied, a product such as Matador may be used. The rotation restrictions in **Table 9** must be observed.

⁵On soils with pH above 7.0, soybean injury caused by the metribuzin in this product may occur at rates higher than 2.5 pt/A. To avoid injury, do not use this product at rates greater than 2.5 pt/A on soils above pH 7.0.

AVALAIRE S-METOLACHLOR + METRIBUZIN + FOMESAFEN SEQUENTIAL APPLICATION

More consistent control of broadleaf and grass weeds may be obtained by an early preplant (surface-applied or shallow incorporated) application of **AVALAIRE S-METOLACHLOR + METRIBUZIN + FOMESAFEN**, followed by a second preemergence application after planting but before soybean emergence. A sequential application will decrease the need for tillage and/or burndown herbicides for the control of existing vegetation before planting, while providing residual control of weeds after planting.

Application

An early preplant application may be made 15 to 30 days before planting soybeans. Follow this application with a preemergence overlay application of **AVALAIRE S-METOLACHLOR + METRIBUZIN + FOMESAFEN** after planting but before crop emergence. Follow directions on this label for sequential applications from 0 to 14 days before planting.

Where a rate range is listed, use the higher rates:

- In fields with a history of severe weed pressure
- When the time between early preplant and preemergence overlay applications approaches the maximum 30 days
- When the organic matter content of the soil is over 3%
- When heavy crop residues are present on the soil surface

When weeds exceed 1.0 to 1.5 inches in height or diameter at application, use a burndown herbicide such as Mad Dog, Makaze, or Whiteout 2,4-D.

Weeds Controlled

In addition to weeds controlled by **AVALAIRE S-METOLACHLOR + METRIBUZIN + FOMESAFEN** alone the sequential application improves control of the following annual broadleaf weeds buffalobur, cocklebur, common ragweed, velvetleaf, and sunflower.

TABLE 8: AVALAIRE S-METOLACHLOR + METRIBUZIN + FOMESAFEN SEQUENTIAL USE RATES FOR REDUCED-TILL AND NO-TILL SYSTEMS (BROADCAST RATES)

Soil Texture ¹	Early Preplant Application AVALAIRE S-METOLACHLOR + METRIBUZIN + FOMESAFEN (pints per acre) ²	-Followed By-	Preemergence Overlay Application AVALAIRE S-METOLACHLOR + METRIBUZIN + FOMESAFEN (pints per acre) ²
COARSE ¹ (Sand, loamy sand, sandy loam)	1.9 to 2.8	-followed by-	0.4 to 1.4
MEDIUM (Loam, silt loam, sandy clay loam, silt, sandy clay)	2.4 to 3.2	-followed by-	0.9 to 1.9
FINE (Silty clay loam ³ , clay loam, Silty clay, clay)	2.8 to 4.1	-followed by-	1.4 to 2.4

¹On coarse-textured soils, do not use on sandy soils with less than 1% organic matter. However, on coarse-textured soils with a calcareous surface area or a pH of 7.5 or higher, do not use on sandy soils with less than 2% organic matter, or on loamy sand or sandy loam soils with less than 1% organic matter.

²Total not to exceed 4.48 pints of **AVALAIRE S-METOLACHLOR + METRIBUZIN + FOMESAFEN** (equivalent to 0.375 lb fomesafen, 1.9 lb metolachlor, and 0.42 lb metribuzin) per acre per use season. Follow regional use rate restrictions above. In Regions 2, 3 and 4, apply **AVALAIRE S-METOLACHLOR + METRIBUZIN + FOMESAFEN** in alternate years only. In years when **AVALAIRE S-METOLACHLOR + METRIBUZIN + FOMESAFEN** cannot be applied, a product such as Matador (imazethapyr + metolachlor + metribuzin, EPA Reg. No. 34704-1054) may be used. The rotation restrictions in **Table 9** must be observed.

³Silty clay loam soils are transitional soils and may be classified as medium-textured soils in some regions of the U.S. When using **AVALAIRE S-METOLACHLOR + METRIBUZIN + FOMESAFEN**, treat this soil as "fine-textured".

CROP ROTATION INTERVALS

Only rotational crops harvested at maturity may be used for feed or food
Do not graze rotated small grain crops or harvest forage or straw for livestock

TABLE 9: CROP ROTATION INTERVALS

CROP	Crop Rotation Intervals (Months)	CROP	Crop Rotation Intervals (Months)
Barley, Spring	8	Rice	10
Barley Winter	4.5	Rye	12
Cotton	12	Sorghum ²	18
Field Corn	10	Soybeans	0
Field Corn (Seed)	10	Sweet corn ¹	10
Peas	10	Wheat, Spring	8
Popcorn	12	Wheat, Winter	4.5
-	-	Other Crops not listed	18

¹Use 18-month minimum rotation interval for sweet corn in the states of Connecticut, Maine, Massachusetts, New Hampshire, New York, Rhode Island and Vermont.

²Sorghum may be planted back after 12 Months in Region 1.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in a tightly closed container in a cool, dry place. Store in original container and out of reach of children, preferably in a locked storage area.

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

CONTAINER HANDLING:

[For plastic containers ≤ 5 gallons: Nonrefillable Container: Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple Rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.]

[For plastic containers > 5 gallons: Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple Rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Recap 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. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.]

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 S-METOLACHLOR + METRIBUZIN + FOMESAFEN] is a trademark of Avalaire, LLC

Aim and Command are registered trademarks of FMC Corporation.

Arrow is a registered trademark of Makhteshim Agan of North America Inc

Assure, Canopy, Classic, Harmony and Synchrony are registered trademarks of E.I. DuPont de Nemours and Company

Basagran, Poast, Poast Plus and Rezult are registered trademarks of BASF.

Cobra and Resource are registered trademarks of Valent USA Corporation

FirstRate, Frontrow, and Python are registered trademarks of Dow AgroSciences LLC

Flexstar, Fusilade, Fusion, and Reflex are registered trademarks of a Syngenta Group Company

Intensity Post-emergence Grass Herbicide, Mad Dog, Makaze, Stealth and Whiteout are registered trademarks and Matador is a trademark of Loveland Products Inc

Roundup-Ready is a registered trademark of Monsanto Technology LLC

Storm and Ultra Blazer are registered trademarks of United Phosphorus Inc

{LANGUAGE ON LABEL AFFIXED TO CONTAINER}

S-METOLACHLOR	GROUP	15	HERBICIDE
METRIBUZIN	GROUP	5	HERBICIDE
FOMESAFEN	GROUP	14	HERBICIDE

AVALAIRE S-METOLACHLOR + METRIBUZIN + FOMESAFEN^[TM]

[Alternate Brand Name: Sutura]

[Herbicide for preemergent control of certain grasses and broadleaf weeds in Soybeans]

ACTIVE INGREDIENTS:	(% by weight)
S-Metolachlor*.....	36.29%
Metribuzin**.....	8.05%
Fomesafen***.....	7.16%
OTHER INGREDIENTS:	48.5%
TOTAL	100.0%

*contains 3.39 lb of S-metolachlor per gallon
 **contains 0.75 lb of metribuzin per gallon
 ***contains 0.67 lb of fomesafen acid per gallon

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

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

FIRST AID	
If on skin or clothing:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
If swallowed:	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by the poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If in eyes:	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
If inhaled:	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact SafetyCall at 1-844-685-9173 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 swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

ENVIRONMENTAL HAZARDS:

Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. 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 washwaters or rinsate. Do not apply when weather conditions favor drift from target area.

Surface Water Advisory

This product may impact surface water quality due to spray drift and 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 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 fomesafen and S-metolachlor from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours. See the manual for "Conservation Buffers to Reduce Pesticide Losses" at the following internet address: <http://www.wsi.nrcs.usda.gov/products/W2Q/pest/core4.html>.

Ground Water Advisory

Metribuzin is a chemical which can travel (seep or leach) through soil and can contaminate ground water which may be used as drinking water. Metribuzin has been found in ground water as a result of agricultural use. Users are advised not to apply metribuzin where the water table (ground water) is close to the surface, and where the soils are very permeable i.e. well-drained soils such as loamy sands. Your local agricultural agencies can provide further information on the type of soil in your area and the location of ground water. S-metolachlor and fomesafen are known to leach through soil into ground water under certain conditions as a result of label use. These chemicals may leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow.

Non-target Organism Advisory Statement

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 contact with an oxidizing agent, as a hazardous chemical reaction may occur.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.
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See inside label booklet for additional Precautionary Statements and Directions for Use.

Manufactured for:
Avalaire, LLC
 1204 Village Way, #173
 Morrisville, NC 27560

EPA Reg. No.: 93930-55
EPA Est. No.: _____
NET WEIGHT: _____