



# SPECIMEN LABEL

GLUFOSINATE | GROUP 10 | HERBICIDE

# SURMISE PRO

HERBICIDE

HERBICIDE FOR NONSELECTIVE WEED CONTROL OF EMERGED WEEDS

<b>ACTIVE INGREDIENT:</b>		
Glufosinate-ammonium*	.....	24.5%**
<b>OTHER INGREDIENTS:</b>	.....	75.5%
<b>TOTAL:</b>	.....	100.0%

\*CAS Number 77182-82-2

\*\*Equivalent to 2.34 pounds of active ingredient per U.S. gallon.

## 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.)

FIRST AID	
<b>IF SWALLOWED:</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• <b>DO NOT</b> induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• <b>DO NOT</b> give anything by mouth to an unconscious person.</li> </ul>
<b>IF ON SKIN:</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 IN EYES:</b>	<ul style="list-style-type: none"> <li>• Hold eyes open and rise slowly and gently with water for 15-20 minutes. Remove contact lenses after the first 5 minutes, then continue rinsing.</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>
In case of Medical or Transport emergency call CHEMTREC toll free at 1-800-424-9300. Have a product container or label with you when calling a poison control center or doctor or going for treatment.	
<b>NOTE TO PHYSICIAN:</b> If this product is ingested, endotracheal intubation and gastric lavage should be performed as soon as possible, followed by charcoal and sodium sulfate administration.	

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

EPA Reg. No. 42750-365-89442

AD030321



**Manufactured For:**  
Prime Source, a division of Albaugh LLC  
1525 NE 36th Street  
Ankeny, IA 50021

# PRECAUTIONARY STATEMENTS

## HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION:** Harmful if swallowed or absorbed through skin. 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)

Applicators and other handlers must wear:

1. Long-sleeved shirt and long pants;
2. Chemical resistant gloves such as barrier laminate butyl rubber >14 mils nitrile rubber >14 mils neoprene rubber >14 mils polyvinyl chloride (PVC) >14 mils or Viton >14 mils,
3. Shoes plus socks,
4. Protective eyewear.

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

## USER SAFETY RECOMMENDATIONS

Users should:

- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

## ENVIRONMENTAL HAZARDS

**DO NOT** apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high-water mark. **DO NOT** clean equipment or dispose of equipment washwaters in a manner that will contaminate water resources or arable land. Glufosinate-ammonium and its degradates have those properties normally associated with pesticides that have been detected in groundwater. Use of this product in areas with coarse soils and high-water tables may result in groundwater contamination.

## PHYSICAL OR CHEMICAL HAZARDS

**DO NOT** mix or allow contact with oxidizing agents as 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.**

**READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.**

**DO NOT** use this product until you have read the entire label. **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.

In the State of New York Only: Not For Use in Nassau and Suffolk Counties.

**[NOTE TO REVIEWER: Label editor reserves right to apply the following statement as required to directions for use on final printed labeling " \*Not approved for use in \_\_\_\_\_." (e.g. \*Not approved for use in California.)**

## 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 intervals. 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 12 hours.**

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

- Coveralls;
- Chemical-resistant gloves such as barrier laminate, butyl rubber >14 mils nitrile rubber >14 mils neoprene rubber >14 mils polyvinyl chloride (PVC) >14 mils or Viton >14 mils;
- Shoes plus socks;
- Protective eyewear.

## NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses. The application for trimming and edging, industrial, recreational and public areas, and farmsteads are not within the scope of the WPS.

Do not allow children, pets or people to enter the sprayed area until treated foliage is completely dry.

## WEED RESISTANCE MANAGEMENT

For resistance management, SURMISE PRO Herbicide is a Group 10 herbicide (glutamine synthetase inhibitor). Any weed population may contain or develop plants naturally resistant to SURMISE PRO and other Group 10 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.

Suspected herbicide-resistant weeds may be identified by these indicators:

- Failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds;
- A spreading patch of non-controlled plants of a particular weed species; and
- Surviving plants mixed with controlled individuals of the same species.

Report any incidence of non-performance of this product against a particular weed species to your Albaugh LLC representative or call 1-800-247-8013 or at [www.albaughLLC.com](http://www.albaughLLC.com). If resistance is suspected, treat weed escapes with an herbicide having a different mode of action and/or use non-chemical means to remove escapes, as practical, with the goal of preventing further seed production.

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

- Rotate the use of this product or other Group 10 herbicides within a growing season sequence or among growing seasons with different herbicide groups that control the same weeds.
- 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 that considers mechanical control methods, cultural (e.g., timing to favor the turf and not the weeds), biological (weed-competitive varieties) and other management practices.
- Scout before and after herbicide application to monitor weed populations for early signs of resistance development. 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. Prevent movement of resistant weed seeds to other areas by cleaning equipment.
- 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 more information on Weed Resistance Management, visit the Herbicide Resistance Action Committee (HRAC) on the web at <http://www.hracglobal.com>.

## PRODUCT INFORMATION

SURMISE PRO Herbicide is a nonselective water-soluble herbicide for application as a foliar spray for the control of a broad-spectrum of emerged annual and perennial grass and broadleaf weeds.

SURMISE PRO Herbicide will also control certain woody species. Plants that have not yet emerged at the time of application will not be controlled. THOROUGH SPRAY COVERAGE IS IMPORTANT.

Visual effects and control from application of SURMISE PRO Herbicide occur within 2 to 4 days after application under good growing conditions.

This product is nonselective and will injure or kill all green vegetation contacted by the spray. Avoid all contact with foliage or green tissue of desirable vegetation. If desirable vegetation is contacted, rinse the sprayed portion with water immediately.

SURMISE PRO Herbicide works best when weeds are actively growing. Weed control may be reduced when applications are made to weeds under stress due to drought or cool temperatures. Weeds under stress or in dense populations will require application at the highest rate specified.

Refer to the **How to Apply** section of this label.

## NONCROP USES

When applied as specified in this label, SURMISE PRO Herbicide controls annual and perennial weeds.

Refer to the **How to Apply** section of this labeling for specified rates and a list of weeds controlled.

Applications may be made on a broadcast, banded or spot treatment basis depending on the situation.

Avoid direct spray or drift to desirable vegetation. Regrowth may occur due to the weed stage of growth at application, low use rate, or environmental conditions. Repeat treatments may be necessary to control plants generating from underground parts or seed.

## WHEN TO APPLY

SURMISE PRO Herbicide is a foliar-active material. Best results are obtained when weeds are actively growing. Weed control may be reduced when applications are made to weeds under stress due to drought or cool temperatures. Weeds under stress or in dense populations will require application of the highest rate specified. Refer to the **How to Apply** section of this label.

SURMISE PRO Herbicide must be applied at the rate specified in the **How to Apply** section of this label. Repeat applications of SURMISE PRO Herbicide or tank mixes of SURMISE PRO Herbicide plus one or more appropriate residual herbicide(s) listed on this label will be needed to control weeds emerging from underground parts or seeds.

## HOW TO MIX

SURMISE PRO Herbicide must be mixed with water to make a finished spray solution as follows:

1. Fill the spray tank with the required amount of water.
2. Add the proper amount of this product, then mix thoroughly.

## USE RESTRICTIONS

- **DO NOT** apply by air.
- **DO NOT** apply this product through any type of irrigation system.
- **DO NOT** allow grazing of vegetation treated with this product.
- **DO NOT** apply directly to or allow drift to contact desirable green tissue or green, thin, or uncalloused bark of desirable vegetation.
- Plants may be safely planted into SURMISE PRO treated areas after spray has dried.
- Maximum Rate – Annual
  - **DO NOT** apply more than 80 fl. oz. (2.5 quarts) of this product per acre per year (1.5 lb ai/A/year)
- Maximum Rate – Single Application
  - **DO NOT** apply more than 80 fl. oz. (2.5 quarts) of this product per acre per year (1.5 lb ai/A/year)
- Maximum Number of Applications per Year
  - **DO NOT** apply more than 3 broadcast applications per year when using reduced application rates (not to exceed a maximum of 1.5 lb ai/A/year).
- Minimum Retreatment Interval is 5 days.

## USE PRECAUTIONS

- SURMISE PRO Herbicide is rainfast in a minimum of 30 minutes and up to 4 hours after application depending upon environmental conditions, weed species and herbicide application rate.
- Plants may be safely planted into SURMISE PRO treated areas after spray has dried.
- Uniform and thorough coverage is necessary to achieve consistent control
- Weed control may be reduced if application is made when weeds are under drought stress.

## HOW TO APPLY

### Spot or Directed Applications

This product may be used as a spot or directed spray application using 1 to 2 fl. oz. (0.018- 0.036 lbs AI) per gallon of water. Mix 1 to 2 fl. oz. (0.018 – 0.036 lbs AI) per gallon of water depending upon the weed and stage of growth as shown in the following sections. Spray undesirable vegetation foliage on a spray-to-wet basis. **DO NOT** apply beyond runoff. Ensure uniform and complete coverage. Use a coarse spray. **DO NOT** spray during windy conditions. Backpack, pump-up, and hydraulic sprayers may be used. Thoroughly clean the sprayer following use.

### Broadcast or Boom Applications

Apply 32 – 80 fl. oz. (1 to 2.5 quarts) (0.6 – 1.5 lbs AI) per acre depending upon the weed and stage of growth as shown in the following sections. Use a minimum of 40 gallons of water per acre with a minimum of 30-psi spray pressure. Drift control additives may be used. If a drift control additive is used, observe and follow all directions and precautions as specified on the additive label.

### Tank Mix Instructions for Noncrop 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.

Prior to adding this product to the spray tank, ensure that the spray tank is thoroughly clean, particularly if an herbicide with the potential to injure crops was previously used (see Cleaning Instructions).

Mix this product with water to make a finished spray solution as follows:

1. Properly calibrate and clean equipment
2. Fill the spray tank half full with water.
3. Start agitation.
4. If mixing with a flowable/wettable powder tank mix partner, prepare a slurry of the proper amount of the product in a small amount of water. Add the slurry to the spray tank.
5. If hard water is a concern, add 17 lbs per 100 gallons of spray solution of ammonium sulfate (AMS) to the spray tank. No surfactant is required when applying this product.
6. If mixing with a liquid tank mix partner, add the liquid mix partner next.
7. Complete filling the spray tank with water before adding this product, as foaming may occur.
8. Add the proper amount of this product and continue agitation.
9. If foaming occurs, use a silicone-based antifoam agent.

Ensure that all spray system lines including pipes, booms, etc. have the correct concentration of spray solution by flushing out the spray system lines before starting the crop application. Maintain good agitation at all times until contents of the tank are sprayed. If the spray mixture is allowed to settle, thorough agitation is required to re-suspend the mixture before spraying is resumed. Keep bypass line on or near bottom of tank to minimize foaming. Screen size in nozzles or line strainers must be 50 mesh or larger.

### Cleaning Instructions:

Before using this product, thoroughly clean refillable tank, nurse tanks, spray tank, lines, and filter, particularly if an herbicide with the potential to injure crops was previously used. Thoroughly rinse equipment using a commercial tank cleaner and as instructed on the prior herbicide label.

After using this product, triple rinse the spray equipment and clean with a commercial tank cleaner before using the equipment. Make sure any rinsate or foam is thoroughly removed from spray tank and boom. Rinsate may be disposed following the pesticide disposal directions on this label.

## MANDATORY SPRAY DRIFT

- **DO NOT** apply when wind speeds exceed 10 miles per hour at the application site.
- **DO NOT** apply during temperature inversions.
- Applicators must select nozzles and pressure that deliver medium to coarse droplets in accordance with American Society of Agricultural & Biological Engineers Standard 527 (ASABE 572).
- Spray the appropriate boom height based on nozzle selection and nozzle spacing, but do not exceed a boom height of 24 inches above target pest or crop canopy. Set boom to lowest effective height over the target pest or crop canopy based on equipment manufacturer's directions. Automated boom height controllers are recommended with large booms to better maintain optimum nozzle to canopy height. Excessive boom height will increase the potential for spray drift.
- For non-crop vegetation management ground applications, apply with the nozzle height no more than 4 feet above the ground or target vegetation, unless necessitated by the application equipment. Examples would include roadside, railroad, utility rights of-way, forestry and other industrial vegetation management applications where safety or natural barriers obstruct application.

## SPRAY DRIFT ADVISORIES

### POLLINATOR ADVISORY

This product contains an herbicide. Follow all label directions and precautions to minimize potential off-target exposure in order to prevent effects to non-target plants adjacent to the treated site which may serve as habitat or forage for pollinators.

### SPRAY DRIFT MANAGEMENT

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

#### Importance of Droplet Size

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

#### Techniques for Controlling Droplet Size

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

**Pressure** – Use the lower spray pressures recommended for the nozzle. Higher pressure reduces droplet size and does not improve canopy penetration. **WHEN HIGHER FLOW RATES ARE NEEDED, USE A HIGHER-CAPACITY NOZZLE INSTEAD OF INCREASING PRESSURE.**

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

#### Boom Height

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

#### Drift Reduction Technology (DRT)

The EPA Drift Reduction Technology (DRT) Program was developed to encourage the manufacturer, marketing, and use of spray technologies scientifically verified to significantly reduce pesticide drift. The use of DRTs should result in significantly less pesticide from spray applications drifting and being deposited in areas not targeted by those applications, compared to spray technologies that do not meet the minimum DRT standard. EPA-verified drift reduction technologies (DRTs) and their ratings will be added to the following webpage when they become available: <https://www.epa.gov/reducing-pesticide-drift/epa-verified-and-rated-drift-reduction-technologies>

#### Wind

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

**AVOID APPLICATIONS DURING GUSTY OR WINDLESS CONDITIONS. Note:** Local terrain can influence wind patterns. Every applicator needs to be familiar with local wind patterns and how they affect spray drift.

#### Temperature and Humidity

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

#### Temperature Inversions

Drift potential is high during a temperature inversion. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain close to the ground and move laterally in a concentrated cloud. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

#### Shielded Sprayers

Shielding the boom or individual nozzles can reduce the effects of wind. However, it is the responsibility of the applicator to verify that the shields are preventing drift and not interfering with uniform deposition of the product.

### Weeds Controlled by SURMISE PRO Herbicide

[lower rate]

<b>For spot application:</b> Apply 1 fl. oz. (0.018 lbs AI) per gallon of water when the weed height or diameter is less than 6 inches. Apply 1.5 fl. oz. (0.027 lbs AI) per gallon of water when the weed height or diameter is 6 inches or greater.	
<b>For broadcast application:</b> Apply 48 fl. oz. (1.5 quarts) (0.9 lbs AI) per acre when the weed height or diameter is less than 6 inches. Apply 80 fl. oz. (2.5 quarts) (1.5 lbs AI) per acre when the weed height or diameter is 6 inches or greater.	
Broadleaf Weeds	Grasses and Sedge
Chickweed Clover Common Cocklebur Filaree Jimsonweed Kochia London Rocket Malva (little mallow) Marestalk Purslane Shephardspurse Smartweed	Barnyardgrass Cupgrass Fall panicum Giant Foxtail Goosegrass Green foxtail Lovegrass Shattercane Smallflower Alexandergrass (signal grass) Stinkgrass Windgrass Yellow Foxtail

[higher rate]

<b>For spot application:</b> Apply 1.5 fl. oz. (0.027 lbs AI) per gallon of water when the weed height or diameter is less than 6 inches. Apply 2 fl. oz. (0.036 lbs AI) per gallon of water when the weed height or diameter is 6 inches or greater.																																											
<b>For broadcast application:</b> Apply 64 fl. oz. (2 quarts) (1.2 lbs AI) per acre when the weed height or diameter is less than 8 inches tall. Apply 80 fl. oz. (2.5 quarts) (1.5 lbs AI) per acre when the weed height or diameter is 8 inches or greater.																																											
Broadleaf Weeds	Grasses and Sedges																																										
<table style="width: 100%; border: none;"> <tr><td style="width: 50%;">annual sowthistle</td><td style="width: 50%;">prickly lettuce</td></tr> <tr><td>bindweed</td><td>ragweed</td></tr> <tr><td>buffalobur</td><td>Russian thistle</td></tr> <tr><td>burdock</td><td>Tansy mustard</td></tr> <tr><td>Canada thistle</td><td>Velvetleaf</td></tr> <tr><td>curly dock</td><td>Virginia copperleaf</td></tr> <tr><td>dandelion</td><td>white heath aster</td></tr> <tr><td>dogbane (hemp)</td><td>wild buckwheat</td></tr> <tr><td>field gromwell</td><td>wild mustard</td></tr> <tr><td>fleabane</td><td>wild onion</td></tr> <tr><td>goldenrod</td><td>wild rose</td></tr> <tr><td>horsetail</td><td>wild turnip</td></tr> <tr><td>lambsquarters</td><td>woodsorrel</td></tr> <tr><td>leafy spurge</td><td>yellow rocket</td></tr> <tr><td>mugwort</td><td></td></tr> <tr><td>musk thistle</td><td></td></tr> <tr><td>nettle</td><td></td></tr> <tr><td>nightshade</td><td></td></tr> <tr><td>pennycress</td><td></td></tr> <tr><td>pigweed, red root</td><td></td></tr> <tr><td>plantain</td><td></td></tr> </table>	annual sowthistle	prickly lettuce	bindweed	ragweed	buffalobur	Russian thistle	burdock	Tansy mustard	Canada thistle	Velvetleaf	curly dock	Virginia copperleaf	dandelion	white heath aster	dogbane (hemp)	wild buckwheat	field gromwell	wild mustard	fleabane	wild onion	goldenrod	wild rose	horsetail	wild turnip	lambsquarters	woodsorrel	leafy spurge	yellow rocket	mugwort		musk thistle		nettle		nightshade		pennycress		pigweed, red root		plantain		annual bluegrass bahiagrass barley Bermudagrass carpetgrass crabgrass dallisgrass downy bromegrass fescue guineagrass Kentucky bluegrass nutsedge paragrass quackgrass ryegrass sandbur smooth bromegrass Torpedograss Vaseygrass Wheat Wild oat
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**Use Notes**

1. Use higher rates within the specified rate range for plant sizes listed when vegetation cover is dense or when weeds are growing under stressed conditions including drought or when average temperatures are below 50°F.
2. The addition of 8.5 to 17 pounds of ammonium sulfate (spray grade) per 100 gallons of water (1 to 2% by weight) or 2 to 4 pounds of ammonium sulfate per acre may improve the level of weed control.

### Use on Woody Species

When applied as specified, SURMISE PRO Herbicide will provide control, partial control, or suppression of certain perennial woody weed species.

Apply 32 – 80 fl. oz. (1 to 2.5 quarts) (0.6 – 1.5 lbs AI) per acre.

Use the higher specified rates per acre of this product when conditions are not optimum for spray penetration, including when vegetation growth is heavy or dense.

Lower specified rates may be used when the target species is a conifer and when vegetation growth conditions allow for uniform spray coverage.

Blackberry	Rubus spp.
Deer brush	Ceanothus integerrimus
Douglas Fir	Pseudotsuga menziesii
Gallberry	Ilex spp.
Hazel	Corylus spp.
Honeysuckle	Lonicera spp.
Huckleberry	Gaylussacia spp.
Maple	Acer spp.
Multiflora rose	Rosa multiflora
Oak	Quercus spp.
Pine	Pinus spp.
Poison ivy	Toxicodendron radicans
Poison oak	Toxicodendron toxicarium
Roundleaf greenbriar	Smilax rotundifolia
Salmonberry	Rubus spectabilis
Sweet gum	Liquidambar styraciflua
Sumac	Rhus spp.
Thimbleberry	Rubus parviflorus
Trumpet creeper	Campsis radicans
Vine maple	Acer circinatum
Western red cedar	Thuja plicata

### WHERE TO APPLY

#### Trimming and edging

SURMISE PRO Herbicide may be used for trimming and edging landscape areas including:

Around individual trees and shrubs,	driveways,
Around buildings and foundations,	sidewalks and paths,
landscape beds,	parking areas,
around sign and light posts,	golf course cart paths and around sand traps
along fences,	

For control of weeds emerging from seed, the use of SURMISE PRO Herbicide in a tank mix with preemergence herbicides is specified. If spraying in areas adjacent to desirable plants, use a shield made of cardboard, plywood, or sheet metal while spraying to help prevent spray from contacting foliage of desirable plants.

Refer to the **How to Apply** section of this labeling for appropriate application rates to control specific weeds.

#### Recreational and Public Areas

When applied as a spot or directed spray application, this product controls annual and perennial weeds listed on this label in areas including: airfields, airports, alleys, lanes, paths, trails, access roads, around ornamental gardens, around ornamental trees and shrubs, campgrounds, drive-in theaters, driveways and ramps, educational facilities, highways and roadsides (including aprons, medians, guardrails and right of ways), parking lots, recreation areas, resorts, schools, sidewalks, sports areas, storage areas, tennis courts, walkways. Refer to the **How to Apply** section of this labeling for appropriate application rates to control specific weeds.

#### Dormant Bermudagrass

SURMISE PRO Herbicide may be used to control winter annual weeds in well-established ornamental dormant hybrid or common Bermudagrass. Apply only when the turf is fully dormant and prior to spring green-up or severe turfgrass injury or delayed green-up may occur. For best results, apply SURMISE PRO Herbicide at a rate of 48 – 80 fl. oz. (1.5 to 2.5 quarts) (0.6 – 1.5 lbs AI) per acre after most weeds have germinated and are in an early growth stage. Refer to the **Weeds Controlled by SURMISE PRO Herbicide** section of this label for selecting specified rates. Applications of SURMISE PRO Herbicide may also be used to suppress or control undesirable biennial or perennial weeds.

**DO NOT** apply more than 80 fl. oz. (2.5 quarts) (1.5 lbs AI) of SURMISE PRO Herbicide per acre per year for this use. Avoid high volume and spot applications where spray volume exceeds 80 gallons per acre or injury or delayed green-up may occur.

#### Ornamentals and Christmas Trees

When applied as specified by this label, this product may be used for the control of undesirable vegetation in site preparation prior to planting, around and within shade and greenhouses, and as a directed spray around containers and field-grown established ornamentals and Christmas trees.

**DO NOT apply directly to or allow drift to contact desirable green tissue or green, thin, or uncalloused bark of desirable vegetation or injury may result. DO NOT apply SURMISE PRO Herbicide as an over-the-top broadcast spray in ornamentals and shade or Christmas trees.**

#### Directed spray application:

SURMISE PRO Herbicide may be applied as a directed spray to control in-row weeds in field-grown woody plants. Refer to the **How to Apply** section of this labeling for appropriate application rate to control specific weeds. This product may also be used between and around containers and in site preparation for new planting.

**Site preparation application:**

This product may be used for pre-plant site preparation for the control of annual and perennial weeds listed on this label, in ornamental and Christmas tree plantings.

Refer to the **How to Apply** section of this labeling for appropriate application rates to control specific weeds.

**Greenhouse and shade house applications (WPS USE):**

SURMISE PRO Herbicide may be used to control weeds in greenhouses and shadehouses.

Air circulation fans must be turned off during application. Apply SURMISE PRO Herbicide as a directed spray, using large droplet and low-pressure type nozzles. Avoid drift and direct contact with desirable vegetation. **DO NOT** use in greenhouses or shade houses containing edible crops.

**Wildlife Food Plots:**

This product may be used as a site preparation treatment prior to planting wildlife food plots. Any wildlife food species may be planted after applying this product, or native species may be allowed to repopulate the area. If tillage is needed to prepare a seedbed, wait 7 days after applying this product or weeds are controlled before tilling plot area.

**Industrial:**

This product may be used to improve line-of-sight at railroad crossings and reduce the need for mowing along rights-of-way, and wayside structures. This product may be tank mixed with other herbicides for these use sites unless specifically prohibited by the product label.

**Farmsteads:**

When applied as specified, this product controls undesirable plant vegetation in noncrop areas around farmstead building foundations, shelter belts, along fences, and nonselective farmstead weed control. Refer to the **How to Apply** section of this labeling for appropriate application rates to control specific weeds. **DO NOT** allow grazing of treated vegetation.

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

## STORAGE AND DISPOSAL

**DO NOT** contaminate water, food, or feed by storage, disposal or cleaning of equipment. Containers are not to be reused or refilled.

**PESTICIDE STORAGE:**

Store in a cool, dry place and in such a manner as to prevent potential contamination of water, food, or feed by storage or disposal. Store in original container and out of reach of children, preferably in a locked storage area. Containers are not to be reused or refilled unless marked as refillable.

Do not store above 100°F for extended periods of time. Storage below 20°F can result in formation of crystals. If product crystallizes, store at 50°F to 70°F and agitate to redissolve crystals. If container is damaged or spill occurs, use product immediately or dispose of product and damaged container as indicated below.

**PESTICIDE DISPOSAL:**

Open dumping is prohibited. Pesticide wastes are toxic. Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the hazardous waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER HANDLING:**

**[Rigid, Nonrefillable containers small enough to shake (i.e. with capacities equal to or less than five gallons).]** Nonrefillable container. Do not reuse or refill this container. Triple rinse or pressure 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 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning if available, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. 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 a mix tank or collect rinsate at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Once container is rinsed, offer for recycling if available, or puncture and dispose of in a sanitary landfill.

**[Rigid, Nonrefillable containers that are too large to shake (i.e. with capacities greater than 5 gallons or 50 lb).]** Nonrefillable container. Do not reuse or refill this container. Triple rinse or pressure 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 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Offer for recycling or reconditioning if available, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. 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 a mix tank or collect rinsate at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Once container is rinsed, offer for recycling if available, or puncture and dispose of in a sanitary landfill.



By using this product, user or buyer accepts the following Conditions, 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. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Albaugh, LLC. To the extent consistent with applicable law, all such risks shall be assumed by the user or buyer.

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