SURMISE
(Not registered for use in California)

SUPPLEMENTAL LABEL FOR NON-CROP USES

KEEP OUT OF REACH OF CHILDREN

WARNING - AVISO

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

DIRECTIONS FOR USE

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

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.

THIS LABEL MUST BE IN POSSESSION OF APPLICATOR AT TIME OF USE

EPA Reg. No. 42750-258

MANUFACTURED BY:
Albaugh, LLC
Ankeny, IA 50021

NON-CROP USES

SURMISE controls annual and perennial weeds in non-crop areas. 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 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 recommended.

SURMISE must be applied at the labeled rate in the HOW TO APPLY section. Repeat applications of SURMISE or tank mixes of SURMISE 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 must be mixed with water to make finished spray solution as follows:
1. Fill the spray tank with the required amount of water.
2. Add the proper amount of product, then mix thoroughly.

USE RESTRICTIONS FOR NON-CROP USE

1. DO NOT apply this product through any type of irrigation system.
2. DO NOT apply directly to or allow drift to contact desirable green tissue or green, thin, or uncalloused bark of desirable vegetation.
3. DO NOT allow grazing of vegetation treated with this product.

HOW TO APPLY

Spot or Directed Applications
This product may be used as a spot or directed spray application using 0.4 to 0.75 fluid ounces of product 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 12.0 to 38.0 fluid ounces 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.

Aerial Applications
Apply as a foliar treatment using a minimum of 5 gallons of water per acre to ensure thorough coverage. Do not apply when winds are gusty or under conditions which favor drift onto desirable vegetation. Applications under conditions which cause drift of this product will result in damage to any vegetation contacted. 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 Recommendations for Non-crop Uses
SURMISE is compatible in tank mixes with many other herbicides including non-selective herbicides such as glyphosate.

Follow the more restrictive label limitations and use precautions for each product. No label dosage rates can be exceeded.
Tank mix applications of SURMISE plus the following herbicides are recommended for broad-spectrum postemergence and preemergence weed control:

<table>
<thead>
<tr>
<th>Arsenal® Herbicide</th>
<th>Factor® Herbicide</th>
<th>Predict Herbicide®</th>
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<tbody>
<tr>
<td>Barricade® 65WG Herbicide</td>
<td>Gallery® 75 Dry Flowable</td>
<td>Vanquish®</td>
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<tr>
<td>Endurance® Herbicide</td>
<td>Pendulum® WDG Herbicide</td>
<td>Ronstar® WSP</td>
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<tr>
<td>Surflan® A.S. Specialty Herbicide</td>
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A compatibility test must be conducted with any potential tank mix partner with SURMISE Herbicide, except with any one of those listed above. Using a clear glass quart jar, conduct the test as described below:

1. Fill the jar three-quarters full with water.
2. Add the appropriate amount of herbicide in the following order: (a) dry flowable, (b) wettable powder, (c) aqueous suspensions, (d) flowables, (e) liquids and (f) solutions and emulsifiable or liquid concentrates. Shake or gently stir jar after each addition to thoroughly mix.
3. After adding all ingredients, let the mixture stand for 15 minutes and then look for separation, large flakes, precipitates, gels, and heavy oily film on the jar or other signs of incompatibility.
4. If the compatibility test shows signs of incompatibility, do not tank mix the product tested with SURMISE Herbicide.

For the Following Weeds Controlled by SURMISE Apply:

**Spot application:**
Apply 0.75 fluid ounces per gallon of water when the weed height or diameter is less than 6 inches.
Apply 1.25 fluid ounces per gallon of water when the weed height or diameter is 6 inches or greater.

**Broadcast application:**
Apply 1.25 quarts per acre when the weed height or diameter is less than 6 inches.
Apply 1.75 quarts per acre when the weed height or diameter is 6 inches or greater.

**Broadleaf Weeds**
- chickweed
- clover
- common cocklebur
- filaree
- jimsonweed
- kochia
- London rocket
- maiva (little mallow)
- marestail
- purslane
- shepherdspurse
- smartweed

**Grasses and Sedges**
- barnyardgrass
- cupgrass
- fall panicum
- giant foxtail
- goosegrass
- green foxtail
- Johnsongrass (rhizome)
- lovegrass
- shattercane
- smallflower
- Alexandergrass (signal grass)
- stinkgrass
- windgrass
- yellow foxtail

For the Following Weeds Controlled by SURMISE Apply:

**Spot application:**
Apply 1.25 fluid ounces per gallon of water when the weed height or diameter is less than 6 inches.
Apply 1.75 fluid ounces per gallon of water when the weed height or diameter is 6 inches or greater.

**Broadcast application:**
Apply 1.75 quarts per acre when the weed height or diameter is less than 8 inches tall.
Apply 2.5 quarts per acre when the weed height or diameter is 8 inches or greater.
**Broadleaf weeds**

<table>
<thead>
<tr>
<th>Broadleaf weeds</th>
<th>Annual sowthistle</th>
<th>Bindweed</th>
<th>Buffalobur</th>
<th>Burdock</th>
<th>Canada thistle</th>
<th>Curly dock</th>
<th>Dandelion</th>
<th>Dogbane (hemp)</th>
<th>Field growwell</th>
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</thead>
<tbody>
<tr>
<td>Annual sowthistle</td>
<td>Fleabane</td>
<td>Goldenrod</td>
<td>Horsetail</td>
<td>Lambsquarter</td>
<td>leafy spurge</td>
<td>mugwort</td>
<td>Russian thistle</td>
<td>nettle</td>
<td>nightshade</td>
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<td>Bindweed</td>
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**Grasses and Sedges**

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<tr>
<th>Grasses and Sedges</th>
<th>annual bluegrass</th>
<th>bahiagrass</th>
<th>barley</th>
<th>Bermudagrass</th>
<th>carpetgrass</th>
<th>crabgrass</th>
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<td>annual bluegrass</td>
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<td>carpetgrass</td>
<td>Kentucky bluegrass</td>
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<td>crabgrass</td>
<td>Nutsedge</td>
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**Addition Use Directions**

1. Use higher rates within the recommended rate range for plant sizes listed when vegetation cover is dense or when weeds are growing under stressed conditions such as 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 labeled, SURMISE will provide control, partial control, or suppression of certain perennial woody weed species. Apply 2 to 6 quarts per acre. Use the higher specified rates per acre of this product when conditions are not optimum for spray penetration, such as 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 Pseudosuga 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 greenbrier Smilax rotundifolia
Salmonberry Rubus spectabilis
Sweet gum Liquidambar styraciflua
Sumac Rhus spp.
Thimbleberry Rubus parviflorus
Trumpetcreeper Campsis radicans
Vine maple Acer circinatum
Western red cedar Thuja plicata

WHERE TO APPLY

Trimming and Edging
SURMISE may be used for trimming and edging landscape areas such as: around individual trees and shrubs, landscape beds, foundations, fences, driveways, paths, and parking areas; also on golf courses along cart paths, around sign and light posts, and around sand traps. For control of weeds emerging from seed, the use of SURMISE in a tank mix with preemergence herbicides is recommended. 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 such as: airports, commercial plants, storage and lumber yards, educational facilities, fence lines, ditch banks, dry ditches, schools, parking lots, tank farms, pumping stations, parks, other public areas and nonfood crop areas. Refer to the How to Apply section of this labeling for appropriate application rates to control specific weeds.

Dormant Bermudagrass
SURMISE 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 at a rate of 1.25 to 2.5 quarts per acre after most weeds have germinated and are in an early growth stage. Refer to the Weeds Controlled by SURMISE section of this label for selecting specified rates. Applications of SURMISE may also be used to suppress or control undesirable biennial or perennial weeds. Do not apply more than 2.5 quarts of SURMISE 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 as an over-the-top broadcast spray in ornamentals and shade or Christmas trees.

Directed spray application:
SURMISE 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. Ornamentals and Christmas trees may be planted into the treated area after the restricted entry interval (REI) of 12 hours has elapsed. Refer to the How to Apply section of this labeling for appropriate application rates to control specific weeds.
Greenhouse and shade house applications:
SURMISE may be used to control weeds in greenhouses and shade-houses. Air circulation fans must be turned off during application. Apply SURMISE 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.

FARMSTEADS, RECREATIONAL, AND PUBLIC AREAS

When applied as listed SURMISE controls undesirable plant vegetation in non crop areas around farmstead, building foundations, shelter belts along fences, airports, commercial plants storage and lumber yards, educational facilities, fence lines, ditch banks, dry ditches, schools parking lots, tank farms, pumping stations, parks other public areas and general nonselective farmstead weed control. Refer to the Application Directions for use on listed Tree Vine and Berry Crops section of this label for appropriate application broadcast and spot spray application rates and lists of weeds controlled.

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