

**NET WEIGHT 2-1/2 POUNDS**

Active Ingredient	By Wt
Flumioxazin*	51.0%
Other Ingredients	49.0%
Total	100.0%

\* 2-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl]-4,5,6,7-tetrahydro-1H-isoindole-1,3(2H)-dione

Chateau® Herbicide SW is a water dispersible granule containing 51% active ingredient.

EPA Reg. No. 59639-99

EPA Est. 11773-IA-1©, 39578-TX-1©, 47857-CA-1

Superscript is first letter of lot number.

**KEEP OUT OF REACH OF CHILDREN CAUTION**

SEE NEXT PAGE FOR ADDITIONAL PRECAUTIONARY STATEMENTS

**FOR CONTROL AND/OR SUPPRESSION OF CERTAIN WEEDS IN ALFALFA; ARTICHOKE; ASPARAGUS; BUSHBERRIES; CANEBERRIES; CELERY; CITRUS; CLOVER; COTTON; FIELD CORN; DRY BEAN; GARLIC; GRAPE; HOPS; MINT; OLIVE; ONION (DRY BULB); POME FRUIT; POMEGRANATE; POTATO; STONE FRUIT; STRAWBERRY; SWEET POTATO; TREE NUTS; NON-BEARING FRUIT TREES; FALLOWBED USE ON TRANSPLANTED MELON; PEPPER AND TOMATO BEDS; FALLOW LAND AND TO MAINTAIN BARE GROUND ON NON-CROP AREAS OF FARMS, ORCHARDS AND VINEYARDS.**



**CHATEAU®**

HERBICIDE SW



(01) 0 06 53204 07482 9

## FIRST AID

- If inhaled:** 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.
- If on skin or clothing:** 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:** 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.  
Call a poison control center or doctor for treatment advice.
- If swallowed:** 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 by the poison control center or doctor.  
Do not give anything by mouth to an unconscious person.

## 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 **800-892-0099** for emergency medical treatment information.

## PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS CAUTION

Harmful if inhaled or absorbed through the skin. Causes moderate eye irritation. Avoid breathing dust and spray mist. Avoid contact with skin, eyes or clothing.

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

Some of the materials that are chemical-resistant to this product are listed below.

**Applicators and other handlers must wear:** long-sleeved shirt and long pants, chemical-resistant gloves made of any waterproof material including polyethylene or polyvinyl chloride, shoes and socks.

**For aerial application to artichoke, mixer/loaders must also wear:** filtering face piece respirator (N95, R95 or P95).

**For ground boom application to olive and pomegranate, mixer/loaders must also wear:** filtering face piece respirator (N95, R95 or P95).

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:

- Wash hands before eating, drinking, chewing gum, using tobacco or using 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:**

This product is toxic to non-target plants and aquatic invertebrates. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Drift or runoff may be hazardous to non-target plants and aquatic organisms in neighboring areas. Do not apply where runoff is likely to occur. Do not apply when weather

conditions favor drift from treated areas. Do not contaminate water when disposing of equipment washwaters or rinsate.

This pesticide is toxic to plants and should be used strictly in accordance with the drift and run-off precautions on this label in order to minimize off-site exposures.

Under some conditions this product may have a potential to run-off to surface water or adjacent land. Where possible, use methods which reduce soil erosion, including no till, limited till and contour plowing; these methods also reduce pesticide run-off. Use of vegetation filter strips along rivers, creeks, streams, wetlands or on the downhill side of fields where run-off could occur will minimize water run-off.

#### **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 apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

#### **AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific statements on this label about personal

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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 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, including plants, soil or water is: coveralls, chemical-resistant gloves made of waterproof material, shoes plus socks.

### **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 Standards for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forest, nurseries or greenhouses.

Keep all unprotected persons out of operating areas, or vicinity where there may be drift. Do not enter or allow others to enter treated areas until sprays have dried.

### **DISCLAIMER, RISKS OF USING THIS PRODUCT, LIMITED WARRANTY AND LIMITATION OF LIABILITY**

**IMPORTANT: Read the entire Label including this Disclaimer, Risks of Using this Product, Limited Warranty, and Limitation of Liability before using this product. If the terms are not**  
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**acceptable THEN DO NOT USE THE PRODUCT; rather, return the unopened product within 15 days of purchase for a refund of the purchase price.**

### **RISKS OF USING THIS PRODUCT**

The Buyer and User (referred to collectively herein as "Buyer") of this product should be aware that there are inherent unintended risks associated with the use of this product which are impossible to eliminate. These risks include, but are not limited to, injury to plants and crops to which this product is applied, lack of control of the target pests or weeds, resistance of the target pest or weeds to this product, injury caused by drift, and injury to rotational crops caused by carryover in the soil. Such risks of crop injury, non-performance, resistance or other unintended consequences are unavoidable and may result because of such factors as weather, soil conditions, disease, moisture conditions, irrigation practices, condition of the crop at the time of application, presence of other materials either applied in the tank mix with this product or prior to application of this product, cultural practices or the manner of use or application, (or a combination of such factors) all of which are factors beyond the control of Valent. The Buyer should be aware that these inherent unintended risks may reduce the harvested yield of the crop in all or a portion of the treated acreage, or otherwise affect the crop such that additional care, treatment and expense are required to take the crop to harvest. If the Buyer chooses not to accept these risks, **THEN THIS PRODUCT SHOULD NOT BE APPLIED.** By applying this product Buyer acknowledges and accepts these inherent unintended risks **AND TO THE FULLEST EXTENT ALLOWED BY LAW, AGREES THAT ALL SUCH RISKS ASSOCIATED WITH THE APPLICATION AND USE ARE ASSUMED BY THE BUYER.**

Valent shall not be responsible for losses or damages (including, but not limited to, loss of yield, increased expenses of farming the crop or such incidental, consequential or special

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damages that may be claimed) resulting from use of this product in any manner not set forth on the label. Buyer assumes all risks associated with the use of this product in any manner or under conditions not specifically directed or approved on the label.

#### **LIMITED WARRANTY**

**Valent warrants only that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the label, under average use conditions, when used strictly in accordance with the label and subject to the Risks of Using This Product as described above. To the extent consistent with applicable law AND AS SET FORTH ABOVE, VALENT MAKES NO OTHER WARRANTIES, EITHER EXPRESSED OR IMPLIED. No agent or representative of Valent or Seller is authorized to make or create any other express or implied warranty.**

#### **LIMITATION OF LIABILITY**

**To the fullest extent allowed by law, Valent or Seller is not liable for any incidental, consequential, indirect or special damages resulting from the use or handling of this product. The limitation includes, but is not limited to, loss of yield on all or any portion of the treated acreage, increased care, treatment or other expenses required to take the crop to harvest, increased finance charges or altered finance ratings, emotional or mental distress and/or exemplary damages. TO THE FULLEST EXTENT ALLOWED BY LAW, THE EXCLUSIVE REMEDY OF THE BUYER, AND THE EXCLUSIVE MAXIMUM LIABILITY OF VALENT OR SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT SHALL BE THE RETURN OF THE PURCHASE PRICE OF THIS PRODUCT OR, AT THE ELECTION OF VALENT OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

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### **PROMPT NOTICE OF CLAIM**

To the extent consistent with applicable law allowing such requirements Valent must be provided notice as soon as Buyer has reason to believe it may have a claim, but in no event later than twenty-one days from date of planting, or twenty-one days from the date of application, whichever is latter, so that an immediate inspection of the affected property and growing crops can be made.

To the extent consistent with applicable law if Buyer does not notify Valent of any claims, in such period, it shall be barred from obtaining any remedy.

### **NO AMENDMENTS**

Valent and Seller offer this product, and Buyer accepts it, subject to the foregoing **Disclaimer, Risks of Using This Product, Limited Warranty** and **Limitation of Liability**, which may not be modified by any oral or written agreement.

## **TANK MIXES**

**NOTICE:** Tank mixing or use of this product with any other product which is not specifically and expressly authorized by the label shall be the exclusive risk of user, applicator and/or application advisor, to the extent allowed by applicable law.

**Read and follow the entire label of each product to be used in the tank mix with this product.**



## Resistance Management

For resistance management, *Chateau* Herbicide SW is a Group 14 herbicide. Any weed population may contain or develop plants naturally resistant to *Chateau* Herbicide SW and other Group 14 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. Appropriate resistance-management strategies should be followed.

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

- Rotate the use of *Chateau* Herbicide SW or other 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

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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 or to find out if suspected resistant weeds have been found in their region.
- For further information or to report lack of performance or suspected resistance, contact Valent U.S.A. LLC at 800-898-2536.

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### PRODUCT INFORMATION

*Chateau* Herbicide SW uses:

- *Chateau* Herbicide SW provides residual control of susceptible weeds.
- *Chateau* Herbicide SW provides additional burndown activity when used as part of a burndown program.
- *Chateau* Herbicide SW can be applied as part of a fall burndown program for control of susceptible winter annuals.
- *Chateau* Herbicide SW can be applied with a hooded or shielded sprayer, as well as part of a layby application, in selected crops for postemergence weed control as well as residual control of susceptible weeds.
- *Chateau* Herbicide SW can be used on farms, orchards and vineyards for non-selective

vegetation control to maintain bare ground non-crop areas that must be kept weed free.

- ***Chateau* Herbicide SW, when applied according to label use directions, will control the weeds claimed in crop specific use directions. This label makes no claims concerning control of other weed species.**

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.

***Chateau* Herbicide SW Rate Summary**

OZ of <i>Chateau</i> Herbicide SW	Pounds of Flumioxazin
2	0.063
4	0.125
6	0.188
8	0.250
12	0.375
24	0.750

## **AVOIDING SPRAY DRIFT AT THE APPLICATION SITE IS THE RESPONSIBILITY OF THE APPLICATOR.**

The interaction of many equipment and weather related factors determine the potential for spray drift. The applicator is responsible for considering all of these factors when making decisions. Where states have more stringent regulations, they must be observed.

### **RESTRICTIONS AND LIMITATIONS**

- Do not apply this product when weather conditions favor spray drift from treated areas.
- Do not apply during low-level inversion conditions, including fog.
- Do not apply to frozen or snow covered soil.
- Do not apply to farm alleys or roads where traffic may result in treated dust settling onto crops or other desirable vegetation.
- Do not apply within 300 yards of non-dormant pears.
- Do not apply to powdery soils or soils that are susceptible to wind displacement unless irrigation can be applied immediately after application.

### **PRECAUTIONS**

- When applying by air, observe drift management restrictions and precautions listed under "AERIAL APPLICATION".

- Mechanical incorporation into the soil will reduce residual weed control.
- Apply post-directed and layby applications of *Chateau* Herbicide SW only to healthy growing crops.

**Before using spray equipment to apply other products to crop foliage follow cleanout procedures identified in this label. See "SPRAYER CLEANUP" for more information.**

### **ENVIRONMENTAL CONDITIONS AND BIOLOGICAL PERFORMANCE**

#### **Preemergence Application (Conventional Tillage)**

**Important:** Crop injury may occur from applications made to poorly drained soils and/or applications made under cool, wet conditions. Risk of crop injury can be minimized by using on well drained soils, planting at least 1.5 inches deep, using high quality seed and completely covering seeds with soil prior to preemergence applications. Treated soil that is splashed onto newly emerged crops may result in temporary crop injury.

Moisture is necessary to activate *Chateau* Herbicide SW in soil for residual weed control. Dry weather following applications of

*Chateau* Herbicide SW may reduce effectiveness. However, when adequate moisture is received after dry conditions, *Chateau* Herbicide SW will control susceptible germinating weeds. *Chateau* Herbicide SW may not control weeds that germinate after application but before an activating rainfall/irrigation or weeds that germinate through cracks resulting from dry soil.

When adequate moisture is not received after a *Chateau* Herbicide SW application, weed control may be improved by irrigation with at least 1/4 inch of water. If emerged weeds are controlled by cultivation, residual weed control will be reduced.

### **Burndown Application**

For best results, apply *Chateau* Herbicide SW as part of a burndown program to actively growing weeds. Applying *Chateau* Herbicide SW under conditions that do not promote active weed growth will reduce herbicide effectiveness. Do not apply *Chateau* Herbicide SW when weeds are under stress due to drought, excessive water, extremes in temperature, disease or low humidity. Weeds under stress tend to become less susceptible to herbicidal action. *Chateau* Herbicide SW

is most effective when applied under warm sunny conditions.

Reduced residual weed control may occur when burndown applications are made to fields where heavy crop and/or weed residue exist.

### **Postemergence Application**

Only apply *Chateau* Herbicide SW to healthy crops labeled for postemergence use. Do not apply *Chateau* Herbicide SW to crops that have been weakened by disease, drought, flooding, excessive fertilization, soil salts, previously applied pesticides, nematodes, insects or winter injury.

### **Rainfastness**

*Chateau* Herbicide SW is rainfast one hour after application. Do not make applications if rain is expected within one hour of application or postemergence efficacy may be reduced.

### **Soil Characteristics**

Application of *Chateau* Herbicide SW to soils with high organic matter and/or high clay content may require higher dosages than soils with low organic matter and/or low clay content. Application to cloddy seedbeds can result in reduced weed control.

## HERBICIDE RATE

### **Residual Weed Control (Including Preemergence Applications or Applications as Part of a Fall or Spring Burndown and Fallow Seedbed Program)**

Based upon soil characteristics (organic matter content and texture), the most difficult to control weed species being targeted, and the crop being grown, select the proper *Chateau* Herbicide SW dosage from the rate range tables contained in this label.

### **CARRIER VOLUME AND SPRAY PRESSURE (Ground Equipment only. See Information for Aerial Equipment under "AERIAL APPLICATION".)**

#### **Preemergence Application (Conventional Tillage)**

To ensure uniform coverage, use 10 to 30 gal of spray solution per acre for conventional tillage applications. Nozzle selection must meet manufacturer's gallonage and pressure guidelines for preemergence herbicide application.

#### **Burndown Application (Prior to Crop Emergence)**

To ensure thorough coverage in burndown applications, use 15 to 60 gal spray solution

per acre. Use 20 to 60 gal per acre if dense vegetation or heavy crop residue is present. Nozzle selection must meet manufacturer's gallonage and pressure guidelines for postemergence herbicide application. Do not use flood jet nozzles.

#### **Postemergence Application (Emerged Crop)**

Check use directions for specific crops in which *Chateau* Herbicide SW can be applied postemergence. To ensure thorough coverage in burndown applications, use a minimum of 15 gallons spray solution per acre. Use a minimum of 20 gallons per acre if dense vegetation or heavy crop residue is present. Nozzle selection must meet manufacturer's gallonage and pressure guidelines for postemergence herbicide application.

## ADDITIVES

### **Burndown Application (Prior to Crop Emergence)**

Postemergence control of weeds from *Chateau* Herbicide SW tank mixes will require the addition of an agronomically approved adjuvant to the spray mixture. When an adjuvant is to be used with *Chateau* Herbicide SW, Valent recommends the use of a Chemical



Producers and Distributors Association certified adjuvant. Either a crop oil concentrate or methylated seed oil which contains at least 15% emulsifiers and 80% oil or a non-ionic surfactant at 0.25% v/v, may be used when applying *Chateau* Herbicide SW as part of a burndown program. Some tank mix partners, for example Roundup® Power Max®, are formulated with sufficient adjuvants and do not require the addition of a crop oil concentrate, methylated seed oil or non-ionic surfactant when tank mixed with *Chateau* Herbicide SW. The addition of a crop oil concentrate or methylated seed oil may increase the burndown activity on certain weeds including cut-leaf evening-primrose and Carolina geranium. Verify mixing compatibility qualities by a jar test.

A spray grade nitrogen source (either ammonium sulfate at 2 to 2.5 lb/A or a 28 to 32% nitrogen solution at 1 to 2 qt/A) may be added to the spray mixture along with either a crop oil concentrate, methylated seed oil or non-ionic surfactant to enhance weed control. The addition of a nitrogen source does not replace the need for a crop oil concentrate, a methylated seed oil or a non-ionic surfactant.

## JAR TEST TO DETERMINE COMPATIBILITY OF ADJUVANTS AND *CHATEAU* HERBICIDE SW

When using *Chateau* Herbicide SW and an adjuvant, including in stale seed bed, layby, hooded/shielded or reduced tillage situations, perform a jar test before mixing commercial quantities of *Chateau* Herbicide SW, when using *Chateau* Herbicide SW for the first time, when using new adjuvants or when a new water source is being used.

1. Add 1 pt of the water to a quart jar. Use water from the same source and temperature as which will be used in the spray tank mixing operation.
2. Add 1 g of *Chateau* Herbicide SW to the quart jar for every 3 oz of *Chateau* Herbicide SW per acre being applied (4 g if 12 oz/A is the desired *Chateau* Herbicide SW rate), gently mix until product goes into suspension.
3. Add 60 ml (4 Tbsp or 2 fl oz) of the crop oil or methylated seed oil to the quart jar or 1 ml of non-ionic surfactant if it is being used in place of oil, gently mix.
4. If nitrogen is being used, add 16 ml (1 Tbsp or 0.5 oz) of the 28 to 32% nitrogen source

to the quart jar. If ammonium sulfate is being used, add 19 g AMS to the quart jar in place of the 28 to 32% nitrogen.

5. Place cap on jar, invert 10 times, let stand for 15 minutes, evaluate.
6. An ideal tank mix combination will be uniform and free of suspended particles. Question the choice of adjuvant if any of the following conditions are observed:
  - a) Layer of oil or globules on the mixture's surface.
  - b) Flocculation: fine particles in suspension or as a layer on the bottom of the jar.
  - c) Clabbering: thickening texture (coagulated) like gelatin.

### **SPRAYER PREPARATION**

Before applying *Chateau* Herbicide SW, start with clean, well maintained application equipment. The spray tank, as well as all hoses and booms, must be cleaned to ensure no residue from the previous spraying operation remains in the sprayer. Some pesticides, including but not limited to, the sulfonylurea and phenoxy herbicides, (i.e., Classic<sup>®</sup> and 2,4-D respectively) are active at very small amounts and can cause crop injury when applied to sus-

ceptible crops. The spray equipment must be cleaned according to the manufacturer's directions for the last product used before the equipment is used to apply *Chateau* Herbicide SW. If two or more products were tank mixed prior to *Chateau* Herbicide SW application, follow the most restrictive cleanup procedure.

### **MIXING INSTRUCTIONS**

1. Fill clean spray tank 1/2 to 2/3 of desired level with clean water.
2. If a drift retardant is to be used, add 10 lb of spray grade ammonium sulfate per 100 gal of spray solution.
3. To ensure a uniform spray mixture, pre-slurry the required amount of *Chateau* Herbicide SW with water prior to addition to the spray tank. Use a minimum of 1 gal of water per 10 oz of *Chateau* Herbicide SW.
4. While agitating, slowly add the pre-slurried *Chateau* Herbicide SW to the spray tank. Agitation creates a rippling or rolling action on the water surface.
5. If tank mixing *Chateau* Herbicide SW with other labeled herbicides, add water soluble bags first, followed by dry formulations, flowables, emulsifiable concen-

trates and then solutions. Prepare no more spray mixture than is required for the immediate spray operation.

6. Add any required adjuvants.
7. Fill spray tank to desired level with water. **Continue agitation until all spray solution has been applied.**
8. Mix only the amount of spray solution that can be applied the day of mixing. Apply *Chateau* Herbicide SW within 6 hours of mixing.

### **SPRAYER CLEANUP**

Spray equipment, including mixing vessels and nurse tanks, must be cleaned each day following *Chateau* Herbicide SW application. After *Chateau* Herbicide SW is applied, the following steps must be used to clean the spray equipment:

1. Completely drain the spray tank, rinse the sprayer thoroughly, including the inside and outside of the tank and all in-line screens.
2. Fill the spray tank with clean water and flush all hoses, booms, screens and nozzles.
3. Top off tank, add 1 gal of 3% household ammonia (or equivalent) for every 100 gal of water, circulate through sprayer for 5 minutes, and then flush all hoses, booms,

screens and nozzles for a minimum of 15 minutes. If diaphragms are being used on the spray boom, loosen diaphragms before flushing the spray system, allowing cleaning solution to spray through the open diaphragm. If spray lines have any end caps, they must be loosened before flushing the system, allowing cleaning solution to spray through the loosened caps. To enhance removal of *Chateau* Herbicide SW from the spray system, add a tank cleaner for example "Valent Tank Cleaner" from Valent U.S.A. LLC, in place of ammonia and allow the cleaning solution to remain in the pressurized spray system (spray tank, hoses and boom) overnight before flushing the system for a minimum of 15 minutes.

4. Drain tank completely.
5. Add enough clean water to the spray tank to allow all hoses, booms, screens and nozzles to be flushed for 2 minutes.
6. Remove all nozzles and screens and rinse them in clean water.

Thoroughly clean spray equipment, including all tanks, hoses, booms, screens and nozzles, before it is used to apply postemergence pesticides. Equipment with *Chateau*

Herbicide SW residue remaining in the system may result in crop injury to the subsequently treated crop.

### **APPLICATION EQUIPMENT**

Ensure application equipment is clean and in good repair, nozzles are uniformly spaced on the boom and frequently checked for accuracy.

### **BROADCAST APPLICATION**

Apply *Chateau* Herbicide SW, and *Chateau* Herbicide SW tank mixes, with ground equip-

ment using standard commercial sprayers equipped with flat fan or flood nozzles (preemergence applications only) designed to deliver the desired spray pressure and spray volume.

### **BAND APPLICATION**

When banding, use proportionately less water and *Chateau* Herbicide SW per acre. The rate of *Chateau* Herbicide SW required per acre, when applied as a banded application, can be calculated with the following formula:

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$$\text{Amount Needed per Acre for Banded Application} = \frac{\text{Band Width in Inches}}{\text{Row Width in Inches}} \times \text{Rate per Broadcast Acre}$$

---

### **AERIAL APPLICATION**

Spray drift away from the site of application may cause damage to non-target vegetation. To minimize drift, apply the largest droplet size consistent with uniform coverage and satisfactory weed control. To obtain satisfactory application and avoid drift, the following directions must be observed:

#### **Restrictions**

- Do not apply during low-level inversion

conditions (including fog), when winds are gusty or under other conditions that favor drift. Do not spray when wind velocity is less than 2 mph or more than 10 mph.

- Do not apply this product by air within 40 ft of non-target plants including non-target crops.
- Do not apply this product by air within 100 ft of emerged cotton crops.
- Do not apply this product by air within 40 ft of streams, wetlands, marshes, ponds, lakes and reservoirs.

**Carrier Volume and Spray Pressure:** When used as part of a burndown weed control program, apply *Chateau* Herbicide SW in 7 to 10 gal of water per acre. Application at less than 7 gal per acre may provide inadequate control. When used for preemergence weed control, apply *Chateau* Herbicide SW in 5 to 10 gal of water per acre. The higher gallonage applications afford more consistent weed control. Do not exceed the nozzle manufacturer's specified pressures. For many nozzle types, lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.

**Nozzle Selection and Orientation:** Formation of very small drops may be minimized by appropriate nozzle selection, by orienting nozzles away from the air stream as much as possible and by avoiding excessive spray pressure. Use nozzles that produce flat or hollow cone spray patterns. Use non-drip type nozzles, for example diaphragm type nozzles, to avoid unwanted discharge of spray solution. The nozzles must be directed toward the rear of the aircraft, at an angle between 0 and 15° downward.

Do not place nozzles on the outer 25% of the wings or rotors.

**Adjuvants and Drift Control Additives:** Refer to tank mix partner's label for adjuvant selection. Drift control additives may be used. When a drift control additive is used, read and carefully observe the cautionary statements and all other information appearing on the additive label.

## **CHEMIGATION**

Follow all label directions for crops regarding rates, timing of application, special instructions and precautions.

Apply this product only through center pivot systems. End guns must be turned off due to uneven application.

Restriction: Do not apply this product through any other type of irrigation system.

Crop injury, lack of efficacy or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.

The system must be properly calibrated (with water only) to ensure that the amount of *Chateau* Herbicide SW applied corresponds to the specified rate.

Apply *Chateau* Herbicide SW in 1/2 to 3/4 inches of water during the first sprinkler set. Allow time for all lines to flush the herbicide through all nozzles before turning off irrigation water. To ensure the lines are flushed and free of remaining herbicide, a dye indicator may be injected into the lines to mark the end of the application period. Once chemigation has begun, the run must be completed to ensure no product is left in the system.

If you have any questions about calibration, contact your State Extension Service Specialist, equipment manufacturers or other experts.

### **Special Precautions for Chemigation**

1. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.
2. A person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person, shall shut the system down and make necessary adjustments if the need arises.

3. The system must be free of leaks and clogged nozzles.
4. The pesticide must be supplied continuously for the duration of the aqueous application. An uneven application may cause injury to the crop or poor weed control.
5. Agitation must be maintained in the nurse tank.
6. The sprinkler chemigation system must contain a functional check valve, vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
7. The pesticide injection pipeline must contain a functional, automatic, quick closing check valve to prevent the flow of fluid back toward the injection pump.
8. The pesticide injection pipeline must contain a functional, normally closed, solenoid operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
9. The system must contain functional interlocking controls to automatically shut off the

pesticide injection pump when the water pump motor stops, or in the case where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.

10. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
11. Systems must use a metering pump, for example a positive displacement injection pump (e.g., diaphragm pump), effectively designed and constructed of materials that are compatible with the pesticides and capable of being fitted with a system interlock.
12. Do not apply when wind speed favors drift beyond the area intended for treatment.

### **Chemigation Systems Connected to Public Water Systems**

1. Public water system means a system for the provision to the public of piped water for human consumption, if such a system has at least 15 service connections or regularly serves an average of at least 25 indi-

viduals daily at least 60 days out of the year.

2. Chemigation systems connected to the public water system must contain a functional, reduced pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, discharge the water from the public water system into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.
3. All chemigation systems connected to the public water system must also follow restrictions listed in the preceding section titled "**Special Precautions for Chemigation**".

### **APPLICATION WITH DRY BULK FERTILIZERS**

Dry bulk fertilizer may be impregnated or coated with *Chateau* Herbicide SW. Application of dry bulk fertilizer with *Chateau* Herbicide SW provides weed control equal to, or slightly below, the same rate of *Chateau* Herbicide SW applied in liquid carriers,

due to better coverage with application via spray equipment. Follow label directions for *Chateau* Herbicide SW regarding rates, special instructions, cautions and special precautions. Apply 400 to 700 lb of the fertilizer/herbicide mixture per acre to obtain adequate soil coverage. Apply the mixture to the soil with properly calibrated equipment immediately after blending. Uniform application of the herbicide/fertilizer mixture is essential to prevent possible crop injury and to obtain uniform weed control.

Do not use ammonium nitrate and/or limestone as the sole source of fertilizer, as the *Chateau* Herbicide SW may not adhere to these materials.

Compliance with all Federal and State regulations relating to blending pesticide mix-

tures with dry bulk fertilizer, registrations, labeling and application are the responsibility of the individual and/or company offering the fertilizer and *Chateau* Herbicide SW mixture for sale.

*Chateau* Herbicide SW must be premixed with water to form a slurry prior to impregnation on dry bulk fertilizer. For best results, use a minimum of 1 pt of water for each 2 oz of *Chateau* Herbicide SW. Use a minimum of 6 pt of the *Chateau* Herbicide SW slurry to impregnate 2000 lb of the fertilizer for uniform coverage of the fertilizer. Closed drum, belt, ribbon or other commonly used dry bulk blenders may be used.

The amount of *Chateau* Herbicide SW required can be calculated with the following formula:

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$$\frac{\text{Ounces of } \textit{Chateau} \text{ Herbicide SW per Ton of Fertilizer}}{1} = \frac{\text{Ounces of } \textit{Chateau} \text{ Herbicide SW per Acre}}{1} \times 2000 \div \text{Pounds of Fertilizer per Acre}$$

---

Thoroughly clean dry fertilizer blending equipment after *Chateau* Herbicide SW has been placed in the system to avoid injury to sensitive crops that may be treated with

fertilizers blended after the equipment has been used for *Chateau* Herbicide SW. Rinse the sides of the blender and the herbicide tank with water. Then impregnate the rin-



sate onto a load of dry fertilizer intended for an approved crop. Use a maximum rate of 1 gal of rinsate per ton of fertilizer. Follow with 1 to 2 loads of unimpregnated fertilizer in the blender before switching herbicides.

### ROTATIONAL RESTRICTIONS

The following rotational crops may be plant-

ed after applying *Chateau* Herbicide SW at the listed rate. Planting earlier than the recommended rotational interval may result in crop injury.

- **Do not plant any crop, except corn (field), cotton, peanut, soybean and sweet potato earlier than 30 days after applying *Chateau* Herbicide SW.**

<b>CHATEAU HERBICIDE SW RATES</b>	<b>CROPS</b>	<b>ROTATION INTERVALS</b>
1 oz/A	Cotton (no-till or strip-till only)	14 days <sup>1</sup>
1.5 to 2 oz/A	Cotton (no-till or strip-till only)	21 days <sup>1</sup>
2 oz/A or less	Peanut, Soybean, Sugarcane and Sweet Potato	immediately
	Field Corn (minimum and no-till)	7 days
	Cotton and Field Corn (conventional tillage), Rice, Sorghum, Sunflower, Tobacco and Wheat	30 days <sup>1</sup>
	Barley, Dry and Snap Bean, Flax, Peas, Rye, Safflower and Sweet Corn	3 months
	Alfalfa, Canola, Clover, Oats, Potato, Sugar Beet and all other crops not listed <sup>2</sup>	4 months if soil is tilled prior to planting 8 months if no tillage is performed
	Lentils	6 months

(continued)

<sup>1</sup> At least one inch of rainfall/irrigation must occur between application and planting or crop injury may occur.

<sup>2</sup> Successful soil bioassay must be performed prior to planting these crops.

**ROTATIONAL RESTRICTIONS** (continued)

<b>CHATEAU HERBICIDE SW RATES</b>	<b>CROPS</b>	<b>ROTATION INTERVALS</b>
Up to 3 oz/A	Peanut, Soybean, Sugarcane and Sweet Potato	immediately
	Field Corn (minimum and no-till)	14 days
	Field Corn (conventional tillage) and Sorghum	30 days <sup>1</sup>
	Cotton, Rice, Sunflower, Tobacco and Wheat	2 months <sup>1</sup>
	Barley, Dry and Snap Bean, Flax, Peas, Rye, Safflower and Sweet Corn	4 months
	Alfalfa, Clover, Oats, Potato and Sugar Beet	5 months if soil is tilled prior to planting 10 months if no tillage is performed
	Canola and all other crops not listed <sup>2</sup>	6 months if soil is tilled prior to planting 12 months if no tillage is performed
	Lentils	7 months
	Raised beds only: Head and Stem Brassica except Cabbage	2 months (if the top 4 inches of the beds have been removed)

(continued)

<sup>1</sup> At least one inch of rainfall/irrigation must occur between application and planting or crop injury may occur.<sup>2</sup> Successful soil bioassay must be performed prior to planting these crops.

**ROTATIONAL RESTRICTIONS** (continued)

<b>CHATEAU HERBICIDE SW RATES</b>	<b>CROPS</b>	<b>ROTATION INTERVALS</b>
Up to 4 oz/A	Sugarcane	Immediately
	Alfalfa, Canola, Clover, Potato, Sugar Beet and all other crops not listed <sup>2</sup>	6 months if soil is tilled prior to planting 12 months if no tillage is performed
	Cotton, Field Corn, Peanut, Rice, Sorghum, Soybean, Sunflower, Tobacco and Wheat	4 months
	Raised beds only: Cabbage, Melon, Pepper and Tomato	2 months (if the top 4 inches of the beds have been removed)
6 to 12 oz/A	Cotton, Field Corn, Peanut, Rice, Sorghum, Soybean, Sunflower, Tobacco and Wheat	9 months
	Alfalfa, Canola, Clover, Sugar Beet and all other crops not listed <sup>2</sup> Trees can be transplanted 2 months after an application of <i>Chateau</i> Herbicide SW <sup>3</sup>	12 months if soil is tilled prior to planting 18 months if no tillage is performed

<sup>2</sup> Successful soil bioassay must be performed prior to planting these crops.

<sup>3</sup> Transplanted avocado, bushberries (including blueberry), caneberries, citrus fruit, fig, grape, olive, pome fruit, pomegranate, stone fruit and tree nuts can be planted 2 months after a *Chateau* Herbicide SW application of 2 to 12 oz/A.

**Table 1. Broadleaf Weeds Controlled by Residual Activity of *Chateau* Herbicide SW**

<b>BROADLEAF WEED SPECIES</b>		<b>ORGANIC MATTER</b>	<b>SOIL TYPE</b>	<b><i>Chateau</i> HERBICIDE SW RATE</b>
<b>SECTION A</b>				
<b>COMMON NAME</b>	<b>SCIENTIFIC NAME</b>			
Carpetweed	<i>Mollugo verticillata</i>	Up to 5%	All Soil Types	2 oz/A
Chickweeds				
Common	<i>Stellaria media</i>			
Mouseear	<i>Cerastium vulgatum</i>			
Dandelion	<i>Taraxacum officinale</i>			
Eclipta	<i>Eclipta prostrata</i>			
Evening-primrose, Cutleaf	<i>Oenothera laciniata</i>			
Field Pennycress*	<i>Thlaspi arvense</i>			
Florida Pusley	<i>Richardia scabra</i>			
Henbit	<i>Lamium amplexicaule</i>			
Lambsquarters, Common	<i>Chenopodium album</i>			
Little Mallow	<i>Malva parviflora</i>			
Marestail/Horseweed	<i>Conyza canadensis</i>			
Mayweed/False Chamomile	<i>Matricaria maritima</i>			
Nightshades				
Black	<i>Solanum nigrum</i>			
Eastern Black	<i>Solanum ptycanthum</i>			
Hairy	<i>Solanum sarrachoides</i>			
Pigweeds				
Redroot	<i>Amaranthus retroflexus</i>			
Smooth	<i>Amaranthus hybridus</i>			
Spiny Amaranth	<i>Amaranthus spinosus</i>			
Tumble	<i>Amaranthus albus</i>			

\*Not for use in California

(continued)

**Table 1. Broadleaf Weeds Controlled by Residual Activity of Chateau Herbicide SW (continued)**

<b>BROADLEAF WEED SPECIES</b>		<b>ORGANIC MATTER</b>	<b>SOIL TYPE</b>	<b>Chateau HERBICIDE SW RATE<sup>1</sup></b>
<b>SECTION A</b>				
<b>COMMON NAME</b>	<b>SCIENTIFIC NAME</b>			
Prickly Lettuce	<i>Lactuca serriola</i>	Up to 5%	All Soil Types	2 oz/A
Prickly Sida (Teaweed)	<i>Sida spinosa</i>			
Puncturevine	<i>Tribulus terrestris</i>			
Purslane, Common	<i>Portulaca oleracea</i>			
Radish, Wild	<i>Raphanus raphanistrum</i>			
Redmaids	<i>Calandrinia ciliata</i> var. <i>menziessii</i>			
Shepherd's-purse	<i>Capsella bursa-pastoris</i>			
Smallflower Morningglory	<i>Jacquemontia tamnifolia</i>			
Sowthistle, Prickly*	<i>Sonchus asper</i>			
Spotted Spurge	<i>Euphorbia maculata</i>			
Venice Mallow	<i>Hibiscus trionum</i>			
<b>SECTION B All weeds listed in Section A plus:</b>				
Coffee Senna	<i>Cassia occidentalis</i>	Up to 3%	All Soil Types	2 oz/A Cotton and Dry Bean 2.5 oz/A Field Corn 3 oz/A all other labeled crops
Common Ragweed	<i>Ambrosia artemisiifolia</i>			
False Chamomile*	<i>Tripleurospermum maritima</i>			
Florida Beggarweed	<i>Desmodium tortuosum</i>			
Golden Crownbeard	<i>Verbesina encelioides</i>			
Hairy Indigo	<i>Indigofera hirsuta</i>			

\*Not for use in California

(continued)

<sup>1</sup> Chateau Herbicide SW will provide residual control of these weeds at 2 oz/A when applied under a cotton canopy.

**Table 1. Broadleaf Weeds Controlled by Residual Activity of *Chateau* Herbicide SW (continued)**

<b>BROADLEAF WEED SPECIES</b>		<b>ORGANIC MATTER</b>	<b>SOIL TYPE</b>	<b>CHATEAU HERBICIDE SW RATE<sup>1</sup></b>
<b>SECTION B All weeds listed in Section A plus:</b>				
<b>COMMON NAME</b>	<b>SCIENTIFIC NAME</b>			
Hemp Sesbania	<i>Sesbania exaltata</i>	3 to 5%	Coarse and Medium Soils: (sandy loam, loamy sand, loamy, silt-loam, silt, sandy clay, sandy clay loam)	2 oz/A Cotton and Dry Bean 2.5 oz/A Field Corn 3 oz/A all other labeled crops
Jimsonweed	<i>Datura stramonium</i>			
Kochia	<i>Kochia scoparia</i>			
London Rocket*	<i>Sisymbrium irio</i>			
Morningglories <sup>2</sup> Entireleaf	<i>Ipomoea hederacea</i> var. <i>integriuscula</i>			
Ivyleaf	<i>Ipomoea hederacea</i>			
Red/Scarlet	<i>Ipomoea coccinea</i>			
Tall	<i>Ipomoea purpurea</i>			
Mustard, Wild	<i>Brassica kaber</i>			
Palmer Amaranth	<i>Amaranthus palmeri</i>			
Spurred Anoda	<i>Anoda cristata</i>	Fine Soils: (silty clay, silty clay loam, clay, clay loam)	2 oz/A Cotton and Dry Bean 3 oz/A Field Corn and all other labeled crops	
Tropic Croton	<i>Croton glandulosus</i>			
Waterhemp				
Common	<i>Amaranthus rudis</i>			
Tall	<i>Amaranthus tuberculatus</i>			
Wild Poinsettia	<i>Euphorbia heterophylla</i>			
Yellow Rocket*	<i>Barbarea vulgaris</i>			

\*Not for use in California

<sup>1</sup> *Chateau* Herbicide SW will provide residual control of these weeds at 2 oz/A when applied under a cotton canopy.

<sup>2</sup> Morningglory species are not adequately controlled on fine soils or soils with greater than 3% organic matter.

**Table 2. Weeds Suppressed by Residual Activity of *Chateau* Herbicide SW**

<b>BROADLEAF WEED SPECIES</b>			
<b>COMMON NAME</b>	<b>SCIENTIFIC NAME</b>	<b>ORGANIC MATTER</b>	<b>OUNCES PER ACRE</b>
Bristly Starbur	<i>Acanthospermum hispidum</i>	Up to 5%	2 to 3
Copperleaf, Hophornbeam	<i>Acalypha ostryifolia</i>		
Ragweed, Giant	<i>Ambrosia trifida</i>		
Russian Thistle	<i>Salsola iberica</i>		
Smartweeds			
Ladysthumb	<i>Polygonum persicaria</i>		
Pennsylvania	<i>Polygonum pennsylvanicum</i>		
Smellmelon*	<i>Cucumis melo</i>		
Velvetleaf	<i>Abutilon theophrasti</i>		
Wild Buckwheat	<i>Polygonum convolvulus</i>		
Wormwood, Biennial	<i>Artemisia biennis</i>		
<b>GRASS WEED SPECIES</b>			
Barnyardgrass	<i>Echinochloa crus-galli</i>	Up to 5%	2 to 3
Bluegrass, Annual	<i>Poa annua</i>		
Crabgrass, Large	<i>Digitaria sanguinalis</i>		
Foxtail, Giant	<i>Setaria faberi</i>		
Goosegrass	<i>Eleusine indica</i>		
Lovegrass, California	<i>Eragrostis diffusa</i>		
Panicums			
Fall	<i>Panicum dichotomiflorum</i>		
Texas	<i>Panicum texanum</i>		
Ryebrass, Italian*	<i>Lolium multiflorum</i>		
Signalgrass, Broadleaf	<i>Brachiaria platyphylla</i>		
Cheat	<i>Bromus secalinus</i>	Up to 5%	1.5 to 3
Downy Brome*	<i>Bromus tectorum</i>		

\*Not for use in California

**DIRECTIONS FOR USE IN FALL  
AND SPRING PREPLANT BURNDOWN  
AND FALLOW SEEDBED PROGRAMS  
IN FIELD CORN**

**(Preemergence to Crop)**

For Use in the States of Arizona, California  
and Hawaii Only

**RESTRICTIONS AND LIMITATIONS**

- Do not apply to frozen or snow covered soil.
- Do not perform any tillage operation after application or residual weed control will be reduced.
- Observe all rotational intervals prior to planting as listed in the "ROTATIONAL RESTRICTIONS" table.

**FALL BURNDOWN AND FALLOW SEEDBED PROGRAMS**

*Chateau* Herbicide SW, at 2 to 3 oz/A can be used in the fall to provide residual weed con-

trol in fields that will be planted the following spring with field corn (refer to Rotational Restrictions table for rates and rotational intervals prior to planting). Weeds controlled by residual activity are listed in Table 1 (sections A and B), Broadleaf Weeds Controlled by Residual Activity of *Chateau* Herbicide SW; Table 3, Weeds Controlled by Fall and Spring Preplant Burndown Programs; and Table 7, Weeds Controlled by Residual Activity of *Chateau* Herbicide SW. If weeds have emerged at the time of application, use *Chateau* Herbicide SW in combination with a labeled burndown herbicide. *Chateau* Herbicide SW can be used in a fall burndown or fallow seedbed program, however the length of residual control may be variable.

Abnormally warm or wet winters will reduce the length of weed control observed in the spring.



Weeds controlled by postemergence or residual activity are listed in Table 3. Preplant burn-down treatment tank mixes and rates are:

<b>Herbicide</b>	<b>Rate</b>
<b>Program 1<sup>1</sup></b>	
<i>Chateau</i> Herbicide SW	2 to 3 oz/A
<b>Plus</b>	
Glyphosate	0.5 to 1.0 lb ai/A (equivalent to 1 to 2 pt/A of Roundup Original®)
<b>Plus</b>	
NIS + AMS	0.5% v/v + 17 lb/100 gal of water
<b>or</b>	
<b>Program 2<sup>1</sup></b>	
<i>Chateau</i> Herbicide SW	2 to 3 oz/A
<b>Plus</b>	
Glyphosate	0.5 to 1.0 lb ai/A (equivalent to 1 to 2 pt/A of Roundup Original)
<b>Plus</b>	
COC <sup>2</sup>	1pt/A
<b>or</b>	<b>or</b>
NIS + AMS	0.5% v/v + 17 lb/100 gal of water
<b>or</b>	

### **Program 3<sup>1</sup>**

<i>Chateau</i> Herbicide SW	2 to 3 oz/A
<b>Plus</b>	
COC	1 pt/A

<sup>1</sup> Dicamba (Banvel®), at 0.188 lb ai/A (6 fl oz/A of Banvel 4) can be added to Programs 1, 2 & 3 to assist in the control of emerged broadleaves. Refer to dicamba label for rotational restrictions.

<sup>2</sup> Crop oil concentrate has been found to increase glyphosate burndown of emerged cutleaf evening-primrose and Carolina geranium.

**Table 3. Weeds Controlled by Fall and Spring Preplant Burndown Programs**

<b>WEEDS CONTROLLED<sup>1</sup></b>		<b>POSTEMERGENCE</b>			<b>RESI-DUAL</b>
<b>COMMON NAME</b>	<b>SCIENTIFIC NAME</b>	<b>Program 1</b>	<b>Program 2</b>	<b>Program 3</b>	
		<b>Weeds 3 inches or less</b>			
Chamomile, False	<i>Matricaria maritima</i>	Yes	Yes	No	Yes
Cheatgrass	<i>Bromus tectorum</i>	Yes	Yes	No	Yes
Chickweed, Common	<i>Stellaria media</i>	Yes	Yes	No	Yes
Chickweed, Mouseear	<i>Cerastium vulgatum</i>	Yes	Yes	No	Yes
Cockle, White	<i>Silene latifolia</i>	No	Yes	Yes	Yes
Dandelion	<i>Taraxacum officinale</i>	Yes	No	Yes <sup>2</sup>	Yes
Deadnettle, Purple	<i>Lamium purpureum</i>	Yes	Yes	Yes	Yes
Groundsel, Cressleaf	<i>Senecio glabellus</i>	Yes	Yes	-	Yes
Henbit	<i>Lamium amplexicaule</i>	Yes	Yes	Yes	Yes
Kochia	<i>Kochia scoparia</i>	Yes	Yes	Yes	Yes
Marestail/Horseweed	<i>Conyza canadensis</i>	Yes	Yes <sup>3</sup>	Yes	Yes
Mallow, Common	<i>Malva neglecta</i>	Yes	Yes	No	Yes
Prickly Lettuce	<i>Lactuca serriola</i>	Yes	Yes	Yes	Yes
Wormwood, Biennial	<i>Artemisia biennis</i>	Yes	Yes	Yes	Yes
<b>Weeds 12 inches or less</b>					
Canola, Volunteer	<i>Brassica napus</i>	Yes	Yes	Yes	Yes
Carolina Geranium	<i>Geranium carolinianum</i>	Yes	Yes	Yes	-
Evening-primrose, Cutleaf <sup>4</sup>	<i>Oenothera laciniata</i>	Yes	Yes	Yes	Yes
Flixweed	<i>Descurainia sophia</i>	Yes	Yes	Yes	Yes
Mustard, Tansy	<i>Descurainia pinnata</i>	Yes	Yes	Yes	Yes
Mustard, Wild	<i>Brassica kaber</i>	Yes	Yes	Yes	Yes
Shepherd's-purse	<i>Capsella bursa-pastoris</i>	Yes	Yes	Yes	Yes

<sup>1</sup> Refer to glyphosate and/or 2,4-D labels for additional weeds controlled and rotational restrictions.

<sup>2</sup> Use 1 lb ai/A of 2,4-D LVE (equivalent to 2 pt/A of 2,4-D 4 LVE) for control of emerged dandelion.

<sup>3</sup> Program 2 will not control emerged glyphosate resistant marestalk/horseweed.

<sup>4</sup> Use Program 1 to control cutleaf evening-primrose that are nearing 12 inches in height or are past the rosette stage.

Use programs 2 or 3 to control cutleaf Evening-primrose that are 12 inches or less and in the rosette stage.

## **SPRING BURNDOWN PROGRAMS**

*Chateau* Herbicide SW can be used in combination with labeled preplant burndown herbicides to assist in the postemergence burndown of emerged weeds and provide residual weed control prior to crop emergence. Weeds controlled by residual activity are listed in Table 1.

No-till planters that incorporate the soil during planting may result in decreased weed control in the row. *Chateau* Herbicide SW cannot be applied after planting field corn.

*Chateau* Herbicide SW can be used at 1 to 3 oz/A with labeled preplant burndown herbicides to enhance the speed of burndown and increase weed spectrum.

*Chateau* Herbicide SW can be used at 1 to 3 oz/A in field corn burndown programs. See "DIRECTIONS FOR USE IN FIELD CORN" for more information.

## **DIRECTIONS FOR USE IN FALL AND SPRING BURNDOWN PROGRAMS IN COTTON**

For Use in the States of Arizona,  
California and Hawaii Only

### **RESTRICTIONS AND LIMITATIONS**

- Do not apply to frozen or snow covered soil.
- Do not perform any tillage operation after application or residual weed control will be reduced.
- *Chateau* Herbicide SW can be used at 1 to 2 oz/A with labeled burndown herbicides to enhance the speed of burndown and increase weed spectrum.
- A minimum of 30 days must pass, and 1 inch of rainfall/irrigation must occur, between *Chateau* Herbicide SW application and planting of conventionally tilled cotton.
- A minimum of 14 days must pass, and 1 inch of rainfall/irrigation must occur, between *Chateau* Herbicide SW application and planting of no-till or strip-till cotton when a

*Chateau* Herbicide SW rate of 1 oz/A is used and 21 days when a *Chateau* Herbicide SW rate of 1.5 to 2 oz/A is used. The field must contain the stubble from the previous crop.

- Observe all rotational intervals prior to planting as listed in the "ROTATIONAL RESTRICTIONS" table.
- Refer to most restrictive label for minimum interval between application and planting.

### **FALL BURNDOWN PROGRAMS**

*Chateau* Herbicide SW, at 2 to 4 oz/A, can be used in the fall to provide residual weed control in fields that will be planted the following spring with cotton (refer to Rotational Restrictions table for rates and rotational intervals prior to planting). Weeds controlled by residual activity are listed in Table 1 and Table 7. If weeds have emerged at the time of application, use *Chateau* Herbicide SW in combination with a labeled burndown herbicide. *Chateau* Herbicide SW can be used in a fall burndown or fallow seedbed program.

Abnormally warm or wet winters will reduce the length of weed control observed in the spring.

### **SPRING BURNDOWN PROGRAMS**

*Chateau* Herbicide SW, at 1 to 2 oz/A, can be used in combination with labeled preplant burndown herbicides to assist in the post-emergence burndown of emerged weeds and provide residual weed control prior to crop emergence in fields that will be planted with cotton. Weeds controlled by residual activity are listed in Table 1.

No-till planters that incorporate the soil during planting may result in decreased weed control in the row.

### **DIRECTIONS FOR USE IN FALL AND SPRING BURNDOWN PROGRAMS IN RICE, SORGHUM, SUNFLOWER AND WHEAT (Preplant to Crop)**

For Use in the States of Arizona,  
California and Hawaii Only

### **RESTRICTIONS AND LIMITATIONS**

- Do not apply to frozen or snow covered soil.
- Do not perform any tillage operation after application or residual weed control will be reduced.
- *Chateau* Herbicide SW can be used at 1 to 2 oz/A with labeled burndown herbi-

cides to enhance the speed of burndown and increase weed spectrum. A minimum of 30 days must pass, and 1 inch of rainfall/irrigation must occur, between *Chateau* Herbicide SW application and planting of rice, sorghum, sunflower or wheat. Refer to most restrictive label for minimum interval between application and planting.

- Observe all rotational intervals prior to planting as listed in the "ROTATIONAL RESTRICTIONS" table.

### **FALL BURNDOWN PROGRAMS**

*Chateau* Herbicide SW can be used in combination with labeled burndown programs to control emerged weeds and provide residual weed control in fields that will be planted the following spring (refer to Rotational Restrictions table for rates and rotational intervals prior to planting).

Abnormally warm winters may reduce the length of weed control observed in the spring.

### **SPRING BURNDOWN PROGRAMS**

*Chateau* Herbicide SW can be used in combination with labeled burndown programs to control emerged weeds and provide residual weed control prior to crop emergence. Weeds

controlled by residual activity are listed in Table 1 Section A. Crops that will be planted following application must be in compliance with the rotational interval listed in the "ROTATIONAL RESTRICTIONS" table on pages 31-33.

No-till planters that incorporate the soil during planting may result in decreased weed control in the row.

### **DIRECTIONS FOR USE IN FALL BURNDOWN PROGRAMS IN FIELDS TO BE PLANTED TO BARLEY, FIELD PEAS, FLAX, LENTIL, SAFFLOWER, SUNFLOWER AND SPRING WHEAT (Preplant to Crop)**

For Use in the States of Arizona,  
California and Hawaii Only

### **RESTRICTIONS AND LIMITATIONS**

- Do not apply to frozen or snow covered soil.
- Do not perform any tillage operation after application or residual weed control will be reduced.
- *Chateau* Herbicide SW can be mixed with 2,4-D and/or glyphosate formulations labeled for burndown programs (preplant to crop) in accordance with the most restrictive label limitations and precautions.

- Do not mix *Chateau* Herbicide SW with any product containing a label prohibition against such mixing.
- Observe all rotational intervals prior to planting as listed in the "ROTATIONAL RESTRICTIONS" table.

### **FALL BURNDOWN PROGRAMS**

*Chateau* Herbicide SW can be used at 2 to 4 oz/A with labeled burndown herbicides to enhance the speed of burndown, increase weed spectrum and provide residual weed control of the weeds listed in Table 3 until the following spring. Rotational intervals must be followed for crop to be planted in the spring following the fall *Chateau* Herbicide SW application. Refer to most restrictive label for minimum interval between application and planting.

### **DIRECTIONS FOR USE IN FALLOW LAND**

For Use in the States of Arizona,  
California and Hawaii Only

*Chateau* Herbicide SW may be used as a preemergence fallow treatment. Weeds controlled by residual activity are listed in Table 1.

*Chateau* Herbicide SW, at 2 to 4 oz/A, can be used in the fall to provide residual weed

control in fallow fields (refer to Rotational Restrictions table for rates and rotational intervals prior to planting). If weeds have emerged at the time of application, use *Chateau* Herbicide SW in combination with a labeled fallow herbicide. Abnormally warm or wet winters will reduce the length of weed control observed in the spring.

*Chateau* Herbicide SW, at 1 to 2 oz/A, can be used in spring in combination with labeled burndown herbicides to control emerged weeds and provide residual weed control.

### **DIRECTIONS FOR USE IN ESTABLISHED ALFALFA**

#### **RESTRICTIONS AND LIMITATIONS**

- Do not apply more than 4 oz of *Chateau* Herbicide SW per acre per application.
- Do not make more than 2 applications of *Chateau* Herbicide SW per acre per year.
- Do not apply more than 8 oz of *Chateau* Herbicide SW per acre per year.
- Do not make a sequential *Chateau* Herbicide SW application within 60 days of the first *Chateau* Herbicide SW application.
- Do not apply to alfalfa with greater than

6 inches of growth. Application will result in burning of treated leaves and stems. **Understand and accept this risk before using *Chateau* Herbicide SW on alfalfa.**

- Do not apply within 25 days of harvest or grazing.
- Do not use on alfalfa grown for seed unless approved by a State authority to support a Special Local Need (SLN) under FIFRA section 24(c).
- Only apply with an adjuvant or tank mix with products formulated as an emulsifiable concentrate "EC" when targeting control of emerged weeds (expect and accept crop burn and/or stunting if *Chateau* Herbicide SW is used with an adjuvant, a tank mix partner formulated as an emulsifiable concentrate (EC) or a tank mix partner formulated with an adjuvant.)
- Application with paraquat can be used to burndown winter annuals prior to winter dormant period.
- Do not use on intended mixed alfalfa-grass stands.

#### **TIMING TO ALFALFA**

*Chateau* Herbicide SW may be applied to established alfalfa with a maximum amount

of growth of 6 inches or less for the preemergence control of the weeds listed in Table 7, Weeds Controlled by Residual Activity of *Chateau* Herbicide SW. Established alfalfa is defined as alfalfa planted in the fall or spring which has gone through a first cutting/mowing. Application to alfalfa with greater than 6 inches of growth may result in unacceptable crop injury.

For control of winter annual weeds: the best timing for preemergence control is in the fall immediately after the last cutting or sheeping-off has occurred.

For control of summer annual weeds: the best timing for preemergence control is in the spring prior to alfalfa growth and before 6 inches of growth.

#### **TIMING TO WEEDS**

##### **Preemergence – Preemergence to Weeds**

Apply *Chateau* Herbicide SW before alfalfa growth exceeds 6 inches in height for the preemergence control of weeds listed in Table 7, Weeds Controlled by Residual Activity of *Chateau* Herbicide SW. Make applications as soon as possible after cutting and removing alfalfa to minimize injury to alfalfa growth.

### **Postemergence Dodder Suppression\***

Apply *Chateau* Herbicide SW at 4 oz per acre with an adjuvant for postemergence suppression of dodder. Tank mixes with Pursuit® Herbicide or Raptor® Herbicide will increase control.

\*Not for use in California.

### **DIRECTIONS FOR USE IN ARTICHOKE**

#### **RESTRICTIONS AND LIMITATIONS**

- Do not apply more than 4 oz of *Chateau* Herbicide SW per acre per application on annual or perennial artichoke varieties after new planting.
- Do not apply more than 6 oz of *Chateau* Herbicide SW per acre per application on perennial artichoke varieties after cutback.
- Do not make more than 1 application of *Chateau* Herbicide SW per acre per year.
- Do not apply more than 6 oz of *Chateau* Herbicide SW per acre per year.
- Application to artichoke foliage may result in unacceptable crop injury.

#### **TIMING TO ARTICHOKE**

**Annual Varieties:** *Chateau* Herbicide SW may be applied to artichoke beds prior to transplanting. Application of *Chateau* Her-

bicide SW must be made to the beds no later than 2 days prior to transplanting. Irrigation or rainfall after transplanting is necessary to activate the *Chateau* Herbicide SW. Do not irrigate the *Chateau* Herbicide SW before transplanting. Heavy irrigation or rainfall may result in crop injury. The injury is usually transitory and the plants will quickly grow out of the crop damage. Take care to minimize soil disturbance during transplanting, as preemergence weed control will decrease as soil disturbance increases.

**Perennial Varieties:** *Chateau* Herbicide SW may be applied to artichokes after planting of crown pieces or “cut back” of mature plants. Applications of *Chateau* Herbicide SW must be made within 2 days after planting or cut back and prior to artichoke emergence. Application after the artichokes have begun to crack, or are emerged, will result in crop injury. Apply before artichokes have begun to emerge (cracking).

#### **TIMING TO WEEDS**

**Pre-plant (annual)/Preemergence (perennial) to Artichokes – Preemergence to Weeds**

Apply *Chateau* Herbicide SW pre-plant to



annual artichokes for preemergence control of the weeds. For perennial artichokes apply before cracking for preemergence control of the weeds. Apply prior to weed emergence. A post-emergence herbicide may be necessary to control emerged weeds. *Chateau* Herbicide SW may be applied to annual or perennial artichokes as specified above for preemergence control of weeds listed in Table 7, Weeds Controlled by Residual Activity of *Chateau* Herbicide SW.

## **DIRECTIONS FOR USE IN ESTABLISHED ASPARAGUS**

### **RESTRICTIONS AND LIMITATIONS**

- Do not apply more than 6 oz of *Chateau* Herbicide SW per acre per application.
- Do not make more than 1 application of *Chateau* Herbicide SW per acre per year.
- Do not apply more than 6 oz of *Chateau* Herbicide SW per acre per year.
- Apply only to dormant asparagus no less than 14 days before spears emerge. Application to non-dormant asparagus may result in unacceptable crop injury.
- Do not work soil within 60 days prior to application in the spring. Soil can be worked after

spear harvest in preparation for *Chateau* Herbicide SW application prior to fern emergence. Treated soil that is splashed onto the ferns may result in spotting.

### **TIMING TO ASPARAGUS – Dormant**

*Chateau* Herbicide SW may be applied to dormant asparagus for preemergence control of the weeds listed in Table 9, Weeds Controlled by Preemergence Application of *Chateau* Herbicide SW. Application to non-dormant asparagus will result in unacceptable crop injury. Apply a minimum of two weeks before spear emergence. Scoring may result if a minimum of 0.5 inch of either rainfall or irrigation has not occurred two weeks prior to emergence.

### **TIMING TO ASPARAGUS – Post Harvest**

Apply *Chateau* Herbicide SW after the final harvest of the year, but prior to fern emergence, for preemergence control of the weeds listed in Table 9, Weeds Controlled by Preemergence Application of *Chateau* Herbicide SW. Application after fern emergence will result in unacceptable crop injury. Apply no less than two weeks prior to fern emergence and must be sprinkler or rainfall incor-

porated with 0.5 to 0.75 inches of water. Add a burndown tank mix partner for the control of emerged weeds labeled for asparagus in accordance with the most restrictive labeled limitations and precautions.

## **TIMING TO WEEDS**

### **Burndown – Dormant Asparagus, Postemergence to Weeds**

*Chateau* Herbicide SW may be used for residual weed control, as well as to assist in postemergence burndown of many annual and perennial weeds where asparagus is dormant. For control of emerged weeds, tank mix *Chateau* Herbicide SW with paraquat. Refer to paraquat label for rates and application parameters. To ensure thorough coverage, use a minimum of 15 gal of spray solution per acre. *Chateau* Herbicide SW tank mixes applied to assist in the control of emerged weeds must be applied with a non-ionic surfactant at 0.25% v/v. A spray grade nitrogen source (either ammonium sulfate at 2 to 2.5 lb/A or 28 to 32% nitrogen solution at 1 to 2 qt/A) may be added to increase herbicidal activity.

### **Burndown – After Last Harvest of Season, Postemergence to Weeds**

Use *Chateau* Herbicide SW for residual weed control and to assist in postemergence burndown for many annual and perennial weeds where asparagus harvest has been completed for the year. For control of emerged weeds, use a labeled tank mix partner with activity on the emerged weeds.

### **Preemergence – Dormant Asparagus or After Last Harvest of the Year, Preemergence to Weeds**

Apply *Chateau* Herbicide SW for the preemergence control of weeds listed in Table 9, Weeds Controlled by Preemergence Application of *Chateau* Herbicide SW.

## **DIRECTIONS FOR USE IN CELERY**

For Use in the States of California, Michigan and Wisconsin Only.

## **RESTRICTIONS AND LIMITATIONS**

- Do not apply more than 3 oz of *Chateau* Herbicide SW per acre during a pre-transplant application.
- Do not apply more than 3 oz of *Chateau* Herbicide SW per acre during a post-transplant application.

- Do not make more than 1 application of *Chateau* Herbicide SW per acre per year.
- Do not apply more than 3 oz of *Chateau* Herbicide SW per acre per year.
- Do not use with an adjuvant.
- Post transplant applications must be made between 3 to 7 days following transplanting.
- Do not apply as part of a tank mix.

### PRECAUTIONS

- In the state of California, use as pre-transplant application only.

### TIMING TO CELERY

Apply *Chateau* Herbicide SW at 3 oz/A prior to transplanting, or between 3 and 7 days following transplanting, for preemergence control of the weeds listed in Table 1, Broadleaf Weeds Controlled by Residual Activity of *Chateau* Herbicide SW.

### TIMING TO WEEDS

Use *Chateau* Herbicide SW prior to weed emergence for residual control.

Refer to **Product Information** section for tank mix guidance. *Chateau* Herbicide SW, when applied according to label use directions, will control the weeds listed

### in Table 1, Broadleaf Weeds Controlled by Residual Activity of *Chateau* Herbicide SW.

### DIRECTIONS FOR USE IN ESTABLISHED CLOVER AND CLOVER GROWN FOR SEED

For Use in Idaho, Oregon and Washington Only

### RESTRICTIONS AND LIMITATIONS

- Do not apply more than 4 oz of *Chateau* Herbicide SW per acre per application.
- Do not make more than 1 application of *Chateau* Herbicide SW per acre per year.
- Do not apply more than 4 oz of *Chateau* Herbicide SW per acre per year.
- Do not apply within 25 days of harvest or grazing.
- Application to clover with greater than 6 inches of growth may result in unacceptable crop injury.

### PRECAUTIONS

- Applications to clover with greater than 6 inches of growth will result in burning of treated leaves and stems. **Understand and accept this risk before using *Chateau* Herbicide SW on clover.**
- Only apply with an adjuvant or tank mix with products formulated as an emulsifi-

able concentrate “EC” when targeting control of emerged weeds (expect and accept crop may be burned and/or stunting when applying tank mixes of *Chateau* Herbicide SW with an adjuvant).

- Application with paraquat can be used to burndown winter annuals prior to winter dormant period.
- Application to mixed clover-grass stands may result in unacceptable injury to the grass.

### **TIMING TO CLOVER**

*Chateau* Herbicide SW may be applied to established clover with a maximum amount of growth of 6 inches or less for the preemergence control of the weeds listed in Table 7, Weeds Controlled by Residual Activity of *Chateau* Herbicide SW. Established Clover is defined as clover planted in the fall or spring which has gone through a first cutting/mowing.

For control of winter annual weeds: the best timing for preemergence control is in the fall immediately after the last cutting or sheeping-off has occurred.

For control of summer annual weeds: the best timing for preemergence control is in the spring prior to clover growth and before 6 inches of growth.

### **TIMING TO WEEDS**

#### **Preemergence – Preemergence to Weeds**

Apply *Chateau* Herbicide SW before clover growth exceeds 6 inches in height for the preemergence control of weeds listed in Table 7, Weeds Controlled by Residual Activity of *Chateau* Herbicide SW. Make applications as soon as possible after cutting and removing clover to minimize injury to clover growth.

#### **Postemergence Dodder Suppression**

Apply *Chateau* Herbicide SW at 4 oz per acre with an adjuvant for postemergence suppression of dodder. Tank mixes with Pursuit Herbicide or Raptor Herbicide will increase control.

### **DIRECTIONS FOR USE IN COTTON**

For Use in the States of Arizona,  
California and Hawaii Only

#### **RESTRICTIONS AND LIMITATIONS**

- Do not apply more than 2 oz of *Chateau* Herbicide SW per acre per application.
- Do not make more than 2 applications of *Chateau* Herbicide SW per acre per year.
- Do not apply more than 4 oz of *Chateau* Herbicide SW per acre per year.

- Do not make a sequential *Chateau* Herbicide SW application within 30 days of the first *Chateau* Herbicide SW application.
- Do not apply within 60 days of harvest.

## **ENVIRONMENTAL CONDITIONS AND BIOLOGICAL PERFORMANCE**

### **Hooded, Shielded and Layby Application**

For best results, apply *Chateau* Herbicide SW to actively growing weeds within the growth stages indicated in this label. Applying *Chateau* Herbicide SW under conditions that do not promote active weed growth will reduce herbicide effectiveness. Do not apply *Chateau* Herbicide SW when the crop or weeds are under stress due to drought, excessive water, extremes in temperature, disease or low humidity. Weeds under stress tend to become less susceptible to herbicidal action. *Chateau* Herbicide SW is most effective when applied under sunny conditions at temperatures above 65°F.

*Chateau* Herbicide SW is rainfast one hour after application. Do not make applications if rain is expected within one hour of application or postemergence efficacy may be reduced.

## **HERBICIDE RATE**

### **Hooded, Shielded and Layby Application**

For postemergence weed control, apply *Chateau* Herbicide SW through a hooded or shielded sprayer or at layby, at 2 oz/A, in combination with MSMA or at 1 to 2 oz/A in combination with glyphosate, to assist in the control of weeds listed in Table 4. Residual weed control can also be obtained through hooded, shielded and layby application of *Chateau* Herbicide SW. Weeds that are controlled through residual activity of *Chateau* Herbicide SW are listed in Table 1. Weeds that are suppressed by residual activity of *Chateau* Herbicide SW are listed in Table 2.

**Table 4. Emerged Broadleaf Weeds Controlled by Hooded, Shielded and Layby Application of Chateau Herbicide SW Tank Mixes With Glyphosate or MSMA in Cotton**

BROADLEAF WEED SPECIES		WEED HEIGHT (inches) 2 oz/A
COMMON NAME	SCIENTIFIC NAME	
Bindweed, Field <sup>1</sup>	<i>Convolvulus arvensis</i>	4
Carpetweed	<i>Mollugo verticillata</i>	4
Chickweed, Common	<i>Stellaria media</i>	4
Cocklebur, Common	<i>Xanthium strumarium</i>	4
Florida Beggarweed	<i>Desmodium tortuosum</i>	2
Hemp Sesbania	<i>Sesbania exaltata</i>	6
Jimsonweed	<i>Datura stramonium</i>	4
Lambsquarters, Common	<i>Chenopodium album</i>	4
Morningglories		
Entireleaf	<i>Ipomoea hederacea</i> var. <i>integruscula</i>	4
Ivyleaf	<i>Ipomoea hederacea</i>	4
Pitted	<i>Ipomoea lacunose</i>	4
Red	<i>Ipomoea coccinea</i>	4
Tall	<i>Ipomoea purpurea</i>	2
Mustard, Wild	<i>Brassica kaber</i>	6
Nightshades		
Black	<i>Solanum nigrum</i>	4
Eastern Black	<i>Solanum ptycanthum</i>	4
Hairy	<i>Solanum sarrachoides</i>	4
Pigweeds		
Palmer Amaranth	<i>Amaranthus palmeri</i>	4
Redroot	<i>Amaranthus retroflexus</i>	4
Smooth	<i>Amaranthus hybridus</i>	4

(continued)

<sup>1</sup> Chateau Herbicide SW tank mixes will control the above ground portion of field bindweed. Repeated applications will be needed to control regrowth.

**Table 4. Emerged Broadleaf Weeds Controlled by Hooded, Shielded and Layby Application of Chateau Herbicide SW Tank Mixes With Glyphosate or MSMA in Cotton (continued)**

BROADLEAF WEED SPECIES		WEED HEIGHT (inches) 2 oz/A
COMMON NAME	SCIENTIFIC NAME	
Plaintain, Broadleaf	<i>Plantago major</i>	6
Prickly Sida (Teaweed)	<i>Sida spinosa</i>	4
Purslane, Common	<i>Portulaca oleracea</i>	2
Ragweeds		
Common	<i>Ambrosia artemisiifolia</i>	2
Giant	<i>Ambrosia trifida</i>	4
Rice Flatsedge	<i>Cyperus iria</i>	2
Sicklepod	<i>Senna obtusifolia</i>	4
Smartweeds		
Ladysthumb	<i>Polygonum persicaria</i>	4
Pale	<i>Polygonum lapathifolium</i>	4
Pennsylvania	<i>Polygonum pennsylvanicum</i>	4
Spotted Spurge	<i>Euphorbia maculata</i>	4
Velvetleaf	<i>Abutilon theophrasti</i>	4
Venice Mallow	<i>Hibiscus trionum</i>	2
Waterhemp		
Common	<i>Amaranthus rudis</i>	2
Tall	<i>Amaranthus tuberculatus</i>	2

**CARRIER VOLUME AND SPRAY PRESSURE  
Hooded, Shielded and Layby Application**

To ensure thorough coverage in hooded, shielded and layby applications, use 15 to 30 gal spray solution per treated acre. Use 20 to 30 gal per treated acre under heavy weed

pressure. Nozzle selection must meet manufacturer's gallonage and pressure guidelines for application method being used. Do not use "Flood Jet" nozzles, as they tend to increase the chance of crop injury.

## **ADDITIVES**

### **Hooded, Shielded and Layby Application**

Weed control from hooded, shielded or layby application of *Chateau* Herbicide SW in cotton requires the addition of an agronomically approved non-ionic surfactant to the spray mixture. Non-ionic surfactant must contain at least 80% active ingredient. Verify mixing compatibility qualities by a jar test. **The use of crop oil concentrates, methylated seed oils, organo-silicant surfactants or products containing these ingredients, may result in severe crop injury.**

### **APPLICATION EQUIPMENT**

Apply *Chateau* Herbicide SW tank mixes, with ground equipment using standard commercial sprayers equipped with nozzles designed to deliver the desired spray pressure and spray volume. Application equipment must be clean and in good repair. Nozzles must meet manufacturer's guidelines for spray pattern and placement on spray boom and must be checked frequently for accuracy.

### **TIMING TO COTTON**

#### **Hooded and Shielded Application**

*Chateau* Herbicide SW tank mixes may be

applied with a hooded or shielded sprayer after cotton has reached a minimum of 6 inches in height. All nozzles must be under the hood or behind the shield to ensure no spray solution comes in contact with the cotton. **Care must be taken to ensure the spray solution or drift does not come in contact with the cotton or severe crop injury can occur.**

#### **Layby Application**

Layby application of *Chateau* Herbicide SW tank mixes may be made once cotton has reached a minimum of 16 inches in height. Cotton that is smaller than 16 inches in height may be injured by *Chateau* Herbicide SW applications. *Chateau* Herbicide SW application must be directed to the lower 2 inches of the cotton stem to avoid crop injury.

### **TIMING TO WEEDS**

*Chateau* Herbicide SW tank mix applications must be made to weeds within the height range given in Table 4.

### **TANK MIXES**

*Chateau* Herbicide SW must be tank mixed with one of the herbicides listed in Table 5 for postemergence control of the weeds listed in Table 4.



**Table 5. Tank Mixes with *Chateau* Herbicide SW for Hooded, Shielded and/or Layby Use in Cotton**

TANK MIX PARTNER	TARGET WEEDS	HOODED AND SHIELDED	LAYBY
glyphosate	Perennial Grasses and Broadleaves	X	X <sup>1</sup>
MSMA	Annual Grasses Yellow Nutsedge	X	X

<sup>1</sup> For use only in cotton with the Roundup Ready gene.

### **DIRECTIONS FOR USE IN DRY BEANS**

Dried cultivars of bean (*Lupinus*); bean (*Phaseolus*) (includes field bean, kidney bean, lima bean (dry), navy bean, pinto bean, tepary bean); bean (*Vigna*) (includes adzuki bean, blackeyed pea, catjang, cowpea, crowder pea, moth bean, mung bean, rice bean, southern pea, urd bean); broad bean (dry); chickpea (garbanzo bean); guar; lab-lab bean and lentil.

### **WEED SUPPRESSION IN DRY BEANS AND WEED CONTROL IN CHICKPEAS (GARBANZO BEAN)**

Arizona, California, Colorado, Hawaii, Idaho, Montana, Nebraska, Oregon and Washington only.

### **RESTRICTIONS AND LIMITATIONS**

- For Chickpeas, do not apply more than 2 oz of *Chateau* Herbicide SW per acre per application. For all other dry beans do not

apply more than 1.5 oz of *Chateau* Herbicide SW per acre per application.

- Do not make more than 1 application of *Chateau* Herbicide SW per acre per year.
- For Chickpeas, do not apply more than 2 oz of *Chateau* Herbicide SW per acre per year. For all other Dry Beans, do not apply more than 1.5 oz of *Chateau* Herbicide SW per acre per year.

**Many weather related factors, including high wind, splashing or heavy rains or cool conditions at or near crop emergence, may result in dry bean injury in fields treated with *Chateau* Herbicide SW. On occasion this has resulted in a delay in maturity. Understand and accept these risks before using *Chateau* Herbicide SW.**

### **TIMING TO DRY BEANS AND CHICKPEAS**

*Chateau* Herbicide SW may be applied to dry beans within 2 days after planting for

the preemergence suppression of the weeds listed in Table 1, Broadleaf Weeds Controlled by Residual Activity of *Chateau* Herbicide SW or Table 8, Weeds Suppressed by Residual Activity of *Chateau* Herbicide SW. Tank mix *Chateau* Herbicide SW with other labeled herbicides for broad spectrum weed control.

### **TIMING TO WEEDS**

*Chateau* Herbicide SW may be applied to dry beans prior to planting or preemergence (after planting). Preemergence application of *Chateau* Herbicide SW must be made within 2 days after planting and prior to dry bean emergence. To avoid severe crop injury, do not apply to dry beans after beans begin to crack or have emerged.

Preplant incorporation (PPI) applications may result in reduced weed control.

### **ADDITIONAL RESIDUAL GRASS CONTROL**

*Chateau* Herbicide SW can be tank mixed with pendimethalin for additional grass control.

### **HARVEST AID**

Not for use in California.

### **RESTRICTIONS AND LIMITATIONS**

- Do not apply more than 3 oz of *Chateau* Herbicide SW per acre per application.
- Do not make more than 1 application of *Chateau* Herbicide SW per acre per year.
- Do not apply more than 3 oz of *Chateau* Herbicide SW per acre per year.
- Do not harvest within 5 days of application.

Desiccation from *Chateau* Herbicide SW requires the addition of an agronomically approved adjuvant to the spray mixture. Use a methylated seed oil which contains at least 15% emulsifiers and 80% oil at 2% v/v. A spray grade nitrogen source (either ammonium sulfate at 2 to 2.5 lb/A or a 28 to 32% nitrogen solution at 1 to 2 qt/A) may be added to the spray mixture along with either a crop oil concentrate or methylated seed oil to enhance desiccation. The addition of a nitrogen source does not replace the need for a crop oil concentrate or a methylated seed oil. Tank mixing *Chateau* Herbicide SW with glyphosate or paraquat will increase control of emerged weeds and aid in harvest. Add a burndown tank mix partner for the control

of emerged weeds labeled for dry bean in accordance with the most restrictive labeled limitations and precautions.

### **TIMING TO DRY BEANS AND CHICKPEAS**

Apply when crop is mature and at least 80% of the pods are yellowing and mostly ripe with no more than 40% (bush type beans) or 30% (vine type beans) of the leaves still green in color. Dry beans can be harvested 5 days after application. To ensure thorough coverage use 15 to 30 gallons spray solution per acre. Nozzle selection must meet manufacturer's gallonage and pressure guidelines for postemergence application.

### **DIRECTIONS FOR USE IN FIELD CORN**

For Use in the States of Arizona,  
California and Hawaii Only

### **RESTRICTIONS AND LIMITATIONS**

- Use only on no-till or minimum tillage fields where last year's crop residue has not been incorporated into the soil.
- Corn must be planted between 14 and 30 days after application unless the application is made as part of a Fall burndown program.
- Corn can be planted 7 days after an application of 2 oz/A if a minimum of 25% of the

soil surface is covered with the residue of the preceding crop and a minimum of 1/4 inch of rainfall has occurred between application and planting.

- Do not apply more than 3 oz of *Chateau* Herbicide SW per acre per application.
- Do not make more than 1 application of *Chateau* Herbicide SW per acre per year.
- Do not apply more than 3 oz of *Chateau* Herbicide SW per acre per year.
- Do not irrigate between emergence and 2-leaf corn.
- Do not use on popcorn, sweet corn or corn grown for seed.

### **TIMING TO FIELD CORN**

- Apply *Chateau* Herbicide SW, at 2 to 3 oz/A, between 7 and 30 days prior to planting field corn, for the preemergence control of the weeds listed in Table 1, Broad-leaf Weeds Controlled by Residual Activity of *Chateau* Herbicide SW.
- Apply *Chateau* Herbicide SW at 2 oz/A between 7 and 30 days prior to planting field corn if a minimum of 25% of the soil surface is covered with the residue of the preceding crop and a minimum of 1/4 inch of rainfall has occurred between application and planting.

- Apply *Chateau* Herbicide SW at 3 oz/A between 14 and 30 days prior to planting field corn.

### **Burndown Use Directions – For Preplant Application in Field Corn**

*Chateau* Herbicide SW, applied as part of a burndown program, may be used for residual weed control, as well as to assist in postemergence burndown of many weeds where field corn will be planted directly into the residue of the previous year. See Directions for Use in Fall and Spring Preplant Burndown and Fallow Seedbed Programs in Field Corn for rates and timing of applications. For control of emerged weeds, *Chateau* Herbicide SW must be applied with an appropriate burndown tank mix partner listed in Table 6. To ensure thorough coverage, use a minimum of 15 gallons of spray solution per acre. Refer to tank mix partner's label for application pressures and adjuvant systems.

### **INCREASING SPEED OF GLYPHOSATE BURNDOWN ACTIVITY**

*Chateau* Herbicide SW, at 1 oz/A, may be tank mixed with glyphosate (Roundup®) to increase the speed of burndown activity compared to glyphosate applied alone. Residual weed control will not be provided at rates lower than 2 oz/A; however, suppression of the weeds in Table 2 may occur at *Chateau* Herbicide SW rates as low as 1 oz/A. Applications of *Chateau* Herbicide SW at 1 oz/A must be made a minimum of 14 days prior to planting field corn.

### **TANK MIXES**

*Chateau* Herbicide SW may be tank mixed with the herbicides listed in Table 6 for preplant burndown applications. Refer to tank mix partner's label for adjuvants.

**Table 6. Tank Mix Partners for Burndown and/or Residual Control of Weeds in Field Corn**

TANK MIX PARTNERS <sup>1</sup>	
2,4-D LVE atrazine Basis <sup>®</sup> dicamba Express <sup>®</sup> glyphosate Hornet <sup>®</sup>	metribuzin paraquat Python <sup>®</sup> Resolve <sup>®</sup> simazine Weedmaster <sup>®</sup>

<sup>1</sup> Refer to tank mix product labels for specific directions.

### TANK MIX RESTRICTIONS

Tank mixes with flufenacet (Axiom or Domain), metolachlor or s-metolachlor (Dual Magnum or Dual II Magnum), dimethenamid or dimethenamid-p (Frontier or Outlook), or acetochlor (Surpass or Harness) may result in injury to field corn when application is followed by prolonged periods of cool wet weather.

### DIRECTIONS FOR USE IN GARLIC

#### RESTRICTIONS AND LIMITATIONS

- Do not apply more than 6 oz of *Chateau* Herbicide SW per acre per application.
- Do not make more than 1 application of *Chateau* Herbicide SW per acre per year.

- Do not apply more than 6 oz of *Chateau* Herbicide SW per acre per year.

#### TIMING TO GARLIC

*Chateau* Herbicide SW may be applied, at 6 oz/A, to garlic prior to garlic emergence. Make application within 3 days after planting garlic.

#### TIMING TO WEEDS

##### Preemergence – Preemergence to Weeds

Apply *Chateau* Herbicide SW to weed free garlic for preemergence control of the weeds listed in Table 9, Weeds Controlled by Preemergence Application of *Chateau* Herbicide SW.

#### DIRECTIONS FOR USE IN HOPS

Not for Use in California or New York

#### RESTRICTIONS AND LIMITATIONS

- Do not apply more than 6 oz of *Chateau* Herbicide SW per acre per application.
- Do not make more than 1 application of *Chateau* Herbicide SW per acre per year.
- Do not apply more than 6 oz of *Chateau* Herbicide SW per acre per year.
- Do not allow spray to contact green stem (unless used for sucker control), foliage, flowers or cones or unacceptable injury may occur.
- Do not apply within 30 days of harvest.

- Do not use with an adjuvant.

*Chateau* Herbicide SW can be used in hops for preemergence weed control as well as sucker control.

#### **TIMING TO HOPS FOR SUCKER CONTROL**

Apply *Chateau* Herbicide SW at 6 oz/A as a directed application after hops have reached a minimum of 6 feet in height for sucker control. Direct application to the lower 2 feet of the hops.

#### **TIMING TO HOPS FOR PREEMERGENCE WEED CONTROL**

Apply *Chateau* Herbicide SW at 6 oz/A as a 1 to 1.5 foot band to each side of the hop row, to dormant hops November through February to ensure time for rain incorporation and activation. If weeds are emerged at the time of application, tank mix *Chateau* Herbicide SW with a labeled burndown herbicide including paraquat or glyphosate to assist with control of emerged weeds. Do not mow or rake over treated areas, as dust created by mowing may drift onto sensitive crops or vegetation resulting in injury.

#### **TIMING TO WEEDS**

*Chateau* Herbicide SW applications must be

made prior to weed emergence for control of weeds listed in Table 9, Weeds Controlled by Preemergence Application of *Chateau* Herbicide SW.

Refer to Product Information section for tank mix guidance. *Chateau* Herbicide SW, when applied according to label use directions, will control the weeds listed in Table 9, Weeds Controlled by Preemergence Application of *Chateau* Herbicide SW.

#### **DIRECTIONS FOR USE IN MINT (Peppermint and Spearmint)**

#### **RESTRICTIONS AND LIMITATIONS**

- Do not apply more than 4 oz of *Chateau* Herbicide SW per acre per application.
- Do not make more than 2 applications of *Chateau* Herbicide SW per acre per year.
- Do not apply more than 8 oz of *Chateau* Herbicide SW per acre per year.
- Do not make a sequential *Chateau* Herbicide SW application within 60 days of the first *Chateau* Herbicide SW application.
- Apply only to dormant mint. Application to non-dormant mint may result in unacceptable crop injury.
- Do not apply within 80 days of harvest.

## PRECAUTIONS

### To avoid crop injury:

- Application to stands established longer than 3 years may result in crop injury.
- Application to stands with weak, thin or damaged roots or rhizomes may result in crop injury.
- Application to mint in Southern Union County (south of Ladd Canyon) or Baker County in Oregon may result in unacceptable crop injury.
- Use only on established meadow mint.
- Applications to mint that has been weakened by diseases, insects (example mint root borer), nematodes, drought, soil salts, high soil pH, previous pesticides, winter injury or double cutting may result in severe injury. Apply only to healthy vigorous mint with undamaged rhizomes.

**Many weather related factors, including high wind, splashing or heavy rains or cool conditions at or near mint emergence, may result in mint injury in fields treated with *Chateau* Herbicide SW. Understand and accept these risks before using *Chateau* Herbicide SW.**

Tank mixes with labeled rates of para-

quat are recommended to control emerged weeds and increase crop safety.

### TIMING TO MINT

As a spray, *Chateau* Herbicide SW may be applied only to established, dormant mint for preemergence control of the weeds listed in Table 7 as well as to assist in the postemergence control of emerged weeds. Application to non-dormant mint or to baby (row) mint (time from planting of mint roots through the first cutting), may result in unacceptable crop injury. As a bulk fertilizer application, *Chateau* Herbicide SW may be applied at least 80 days prior to harvest. Leaves must be dry at the time of applications or severe injury may occur.

### TIMING TO WEEDS

#### **Burndown – Dormant Mint, Postemergence to Weeds**

*Chateau* Herbicide SW may be used for residual weed control, as well as to assist in postemergence burndown of many annual and perennial weeds where established mint is dormant. For control of emerged weeds, tank mix *Chateau* Herbicide SW with paraquat. Refer to paraquat label for rates and use directions. To ensure thorough cov-

erage, use a minimum of 15 gal of spray solution per acre. *Chateau* Herbicide SW tank mixes applied to assist in the control of emerged weeds must be applied with a non-ionic surfactant at 0.25% v/v. A spray grade nitrogen source (either ammonium sulfate at 2 to 2.5 lb/A or 28 to 32% nitrogen solution at 1 to 2 qt/A) may be added to increase herbicidal activity.

**Preemergence – Dormant Mint,  
Preemergence To Weeds**

Apply *Chateau* Herbicide SW to dormant mint for the preemergence control of weeds listed in Table 7. Fall applications of *Chateau*

Herbicide SW, followed by a sequential application in the Spring, have resulted in better Summer annual weed control than a single Fall or single Spring application.

Fall application is most effective for Fall germinating weeds, for example groundsel. Fields plowed or harrowed after a *Chateau* Herbicide SW application will result in less effective preemergence activity. In furrow irrigated fields, corrugating that is done after a *Chateau* Herbicide SW application will expose untreated soil and break the herbicide barrier resulting in poor weed control.



**Table 7. Weeds Controlled by Residual Activity of *Chateau* Herbicide SW**

BROADLEAF WEED SPECIES				CHATEAU HERBICIDE SW RATE
COMMON NAME	SCIENTIFIC NAME	ORGANIC MATTER	SOIL TYPE	
Bristly Starbur	<i>Acanthospermum hispidum</i>	Up to 5%	All Soil Types	4 oz/A
Carpetweed	<i>Mollugo verticillata</i>			
Chickweeds				
Common	<i>Stellaria media</i>			
Mouseear	<i>Cerastium vulgatum</i>			
Coffee Senna	<i>Cassia occidentalis</i>			
Copperleaf, Hophornbeam	<i>Acalypha ostryifolia</i>			
Dandelion	<i>Taraxacum officinale</i>			
Dodder (suppression only) <sup>1</sup> *	<i>Cuscuta</i> spp.			
Eclipta	<i>Eclipta prostrata</i>			
Evening-primrose, Cutleaf	<i>Oenothera laciniata</i>			
False Chamomile*	<i>Tripleurospermum maritima</i>			
Fiddleneck, Coast*	<i>Amsinckia menziesii</i>			
Field Pennycress*	<i>Thlaspi arvense</i>			
Fleabane, Hairy*	<i>Conyza bonariensis</i>			
Fixweed*	<i>Descurainia sophia</i>			
Florida Beggarweed	<i>Desmodium tortuosum</i>			
Florida Pusley	<i>Richardia scabra</i>			
Golden Crownbeard	<i>Verbesina encelioides</i>			
Groundsel, Common	<i>Senecio vulgaris</i>			
Hairy Indigo	<i>Indigofera hirsuta</i>			

\*Not for use in California.

(continued)

<sup>1</sup> *Chateau* Herbicide SW at 4 oz/A will provide postemergence dodder suppression when applied in combination with Pursuit Herbicide or Raptor Herbicide at labeled rates. Pursuit Herbicide and Raptor Herbicide require the use of NIS, which will result in burn and stunting of alfalfa. Understand and accept these risks before tank mixing with *Chateau* Herbicide SW.

**Table 7. Weeds Controlled by Residual Activity of *Chateau* Herbicide SW (continued)**

BROADLEAF WEED SPECIES				CHATEAU HERBICIDE SW RATE
COMMON NAME	SCIENTIFIC NAME	ORGANIC MATTER	SOIL TYPE	
Hemp Sesbania	<i>Sesbania exaltata</i>	Up to 5%	All Soil Types	4 oz/A
Henbit	<i>Lamium amplexicaule</i>			
Jimsonweed	<i>Datura stramonium</i>			
Kochia	<i>Kochia scoparia</i>			
Lambsquarters, Common	<i>Chenopodium album</i>			
Little Mallow	<i>Malva parviflora</i>			
London Rocket*	<i>Sisymbrium irio</i>			
Marestail/Horseweed	<i>Conyza canadensis</i>			
Mayweed/False Chemomile*	<i>Matricaria maritima</i>			
Morningglories				
Entireleaf	<i>Ipomoea hederacea</i> var. <i>integruscula</i>			
Ivyleaf	<i>Ipomoea hederacea</i>			
Red/Scarlet	<i>Ipomoea coccinea</i>			
Smallflower	<i>Jacquemontia tamnifolia</i>			
Tall	<i>Ipomoea purpurea</i>			
Mustard				
Tansy*	<i>Descurainia pinnata</i>			
Tumble*	<i>Sisymbrium altissimum</i>			
Wild*	<i>Brassica kaber</i>			
Nettle, Burning*	<i>Urtica urens</i>			
Nightshades				
Black	<i>Solanum nigrum</i>			
Eastern Black	<i>Solanum ptycanthum</i>			
Hairy	<i>Solanum sarrachoides</i>			

\*Not for use in California.

**Table 7. Weeds Controlled by Residual Activity of *Chateau* Herbicide SW (continued)**

BROADLEAF WEED SPECIES				CHATEAU HERBICIDE SW RATE
COMMON NAME	SCIENTIFIC NAME	ORGANIC MATTER	SOIL TYPE	
Pigweeds		Up to 5%	All Soil Types	4 oz/A
Palmer Amaranth	<i>Amaranthus palmeri</i>			
Redroot	<i>Amaranthus retroflexus</i>			
Smooth	<i>Amaranthus hybridus</i>			
Spiny Amaranth	<i>Amaranthus spinosus</i>			
Tumble	<i>Amaranthus albus</i>			
Prickly Lettuce (China Lettuce)	<i>Lactuca serriola</i>			
Prickly Sida (Teaweed)	<i>Sida spinosa</i>			
Puncturevine	<i>Tribulus terrestris</i>			
Purslane				
Common	<i>Portulaca oleracea</i>			
Horse*	<i>Trianthema portulacastrum</i>			
Radish, Wild	<i>Raphanus raphanistrum</i>			
Ragweed, Common	<i>Ambrosia artemisiifolia</i>			
Redmaids	<i>Calandrinia ciliata</i> var. <i>menziesii</i>			
Russian Thistle	<i>Salsola iberica</i>			
Shepherd's-purse	<i>Capsella bursa-pastoris</i>			
Smartweeds				
Ladysthumb	<i>Polygonum persicaria</i>			
Pennsylvania	<i>Polygonum pennsylvanicum</i>			
Smellmelon*	<i>Cucumis melo</i>			
Spotted Spurge	<i>Euphorbia maculata</i>			
Sowthistle, Prickly*	<i>Sonchus asper</i>			

\*Not for use in California.

(continued)

**Table 7. Weeds Controlled by Residual Activity of *Chateau* Herbicide SW (continued)**

<b>BROADLEAF WEED SPECIES</b>				<b>CHATEAU HERBICIDE SW RATE</b>
<b>COMMON NAME</b>	<b>SCIENTIFIC NAME</b>	<b>ORGANIC MATTER</b>	<b>SOIL TYPE</b>	
Spurred Anoda Tropic Croton Velvetleaf Venice Mallow Waterhemp Common Tall White Cockle* Wild Poinsettia Wormwood, Biennial Yellow Rocket*	<i>Anoda cristata</i> <i>Croton glandulosus</i> <i>Abutilon theophrasti</i> <i>Hibiscus trionum</i>  <i>Amaranthus rudis</i> <i>Amaranthus tuberculatus</i> <i>Silene latifolia</i> <i>Euphorbia heterophylla</i> <i>Artemisia biennis</i> <i>Barbarea vulgaris</i>	Up to 5%	All Soil Types	4 oz/A
<b>GRASS WEED SPECIES</b>				
Barnyardgrass Bluegrass, Annual Crabgrass, Large Foxtail, Giant Goosegrass Lovegrass, California Panicums Fall Texas Ryegrass, Italian* Signalgrass, Broadleaf	<i>Echinochloa crus-galli</i> <i>Poa annua</i> <i>Digitaria sanguinalis</i> <i>Setaria faberi</i> <i>Eleusine indica</i> <i>Eragrostis diffusa</i>  <i>Panicum dichotomiflorum</i> <i>Panicum texanum</i> <i>Lolium multiflorum</i> <i>Brachiaria platyphylla</i>	Up to 5%	All Soil Types	4 oz/A

\*Not for use in California.

## **DIRECTIONS FOR USE IN ONION (DRY BULB)**

For Use in the States of Michigan, New York, North Dakota and Wisconsin Only

### **RESTRICTIONS AND LIMITATIONS**

- Do not apply more than 2 oz of *Chateau* Herbicide SW per acre per application.
- Do not make more than six applications of *Chateau* Herbicide SW per acre per year at the 0.5 oz rate.
- Do not apply more than 3 oz of *Chateau* Herbicide SW per acre per year.
- Do not make sequential application within 14 days of the first application (7 days for microrate application).
- Do not apply more than 1 oz of *Chateau* Herbicide SW per year on soils that contain greater than 90% sand plus gravel.
- Do not apply as part of a tank mix, other than Prowl® H<sub>2</sub>O Herbicide, or unacceptable injury may result.
- Do not tank mix other formulations of pendimethalin with *Chateau* Herbicide SW for use in onions.
- Do not apply with any type of adjuvant.
- Do not apply within 45 days of harvest.

Use of *Chateau* Herbicide SW may result in necrotic spotting of onion leaves that come in contact with the spray. Understand and accept this risk before using *Chateau* Herbicide SW.

### **Microrate Application**

Sequential applications of *Chateau* Herbicide SW may be applied to onions (dry bulb), between the 2-leaf and 6-leaf stage, at rates of 0.5 to 1 oz/A, on a 7 day interval.

### **TIMING TO ONIONS (dry bulb)**

Apply *Chateau* Herbicide SW to transplanted onions (dry bulb) between the 2-leaf and 6-leaf stage and on direct seed onions (dry bulb) between the 3-leaf and 6-leaf stage.

### **TIMING TO WEEDS**

#### **Preemergence – Emerged Onions (dry bulb), Preemergence to Weeds**

Apply *Chateau* Herbicide SW to weed free onions (dry bulb) for preemergence control of the weeds listed in Table 1, Section A.

### **DIRECTIONS FOR USE IN POTATO**

Arizona, California, Colorado, Delaware, Florida, Hawaii, Idaho, Maryland, Minnesota, Montana, Nebraska, Nevada, New Jersey, New Mexico, North Carolina, North

Dakota, Oregon, South Carolina, South Dakota, Texas, Utah, Virginia, Washington and Wyoming only.

## **RESTRICTIONS AND LIMITATIONS**

- Do not apply more than 1.5 oz of *Chateau* Herbicide SW per acre per application.
- Do not make more than 1 application of *Chateau* Herbicide SW per acre per year.
- Do not apply more than 1.5 oz of *Chateau* Herbicide SW per acre per year.
- Do not apply to Rill (Furrow) irrigated potatoes.

**Many weather related factors, including high wind, splashing or heavy rains or cool conditions at or near potato emergence, may result in potato injury in fields treated with *Chateau* Herbicide SW. On occasion this has resulted in a delay in maturity. Understand and accept these risks before using *Chateau* Herbicide SW.**

## **TIMING TO POTATOES**

*Chateau* Herbicide SW may be applied to potatoes after hilling for the preemergence suppression of the weeds listed in Table 8. Tank mix *Chateau* Herbicide SW with other labeled herbicides for broad spectrum weed

control. A minimum of 2 inches of settled soil must cover the vegetative portion of the potato plant at the time of *Chateau* Herbicide SW application. Application to potatoes with less than 2 inches of soil covering the vegetative portion of the potato may result in crop injury. In areas with historically higher amounts of rainfall during the time of preemergence herbicide applications, including the Red River Valley, Minnesota and North Dakota, the requirement for 2 inches of settled soil is critical to avoid crop injury. Mechanical incorporation of *Chateau* Herbicide SW will result in decreased weed control. In areas with sprinkler irrigation, incorporate *Chateau* Herbicide SW with 0.5 to 0.75 inches of irrigation, after application and before **any** sprouts are within 2 inches of the settled soil surface if a rainfall event has not yet occurred.

## **TIMING TO WEEDS**

### **Preemergence – Soil Covered Potatoes, Preemergence To Weeds**

Apply *Chateau* Herbicide SW to soil-covered potatoes for the preemergence suppression of the weeds listed in Table 8. Harrowing, cultivation or corrigrating after *Chateau* Herbicide SW application will reduce weed control.

**Table 8. Weeds Suppressed by Residual Activity of *Chateau* Herbicide SW at 1.5 oz/A**

<b>COMMON NAME</b>	<b>SCIENTIFIC NAME</b>	<b>ORGANIC MATTER</b>	<b>CHATEAU HERBICIDE SW RATE</b>
Lambsquarters, Common	<i>Chenopodium album</i>	Up to 5%	1.5 oz/A
Mustard, Wild	<i>Brassica kaber</i>		
Nightshades			
Black	<i>Solanum nigrum</i>		
Eastern Black	<i>Solanum ptycanthum</i>		
Hairy	<i>Solanum sarrachoides</i>		
Pigweeds			
Palmer Amaranth	<i>Amaranthus palmeri</i>		
Redroot	<i>Amaranthus retroflexus</i>		
Smooth	<i>Amaranthus hybridus</i>		
Spiny Amaranth	<i>Amaranthus spinosus</i>		
Tumble	<i>Amaranthus albus</i>		
Prickly Lettuce (China Lettuce)	<i>Lactuca serriola</i>		
Radish, Wild	<i>Raphanus raphanistrum</i>		

## **DIRECTIONS FOR USE IN STRAWBERRY**

### **RESTRICTIONS AND LIMITATIONS**

- Do not apply more than 3 oz of *Chateau* Herbicide SW per acre per application.
- Do not make more than 1 application of *Chateau* Herbicide SW per acre per year.
- Do not apply more than 3 oz of *Chateau* Herbicide SW per acre per year.

## **PRECAUTIONS**

- *Chateau* Herbicide SW, at 3 oz per acre, can be applied to the soil a minimum of 30 days prior to transplanting strawberries provided the strawberries will be transplanted through a plastic mulch.
- *Chateau* Herbicide SW at 3 oz per acre can be applied to dormant (established or newly planted) strawberries for the preemergence control of the weeds listed

in Table 1, Broadleaf Weeds Controlled by Residual Activity of *Chateau* Herbicide SW.

- *Chateau* Herbicide SW, at 3 oz per acre, can be applied in strawberry row middles

with a shielded or hooded sprayer for the preemergence control of the weeds listed in Table 1, Broadleaf Weeds Controlled by Residual Activity of *Chateau* Herbicide SW.

Application Method	Minimum Time from Application to Harvest (PHI)	Use Rate per Acre per Application (oz)	Use Rate per Acre per Year (oz)	Special Use Instructions
Pre-transplant	Not applicable	3	3	Apply a minimum of 30 days prior to transplanting and prior to plastic mulch being laid. Apply as part of a tank mix to control emerged weeds.
Preemergence to dormant strawberries	Not applicable	3	3	Crop oil concentrate, at 1% v/v, or non-ionic surfactant, at 0.25% v/v, may be added to help control emerged broadleaf weeds.
Hooded or shielded sprayer application to row middles	Do not apply after fruit set	3	3	<b>Apply only to row middles – do not apply over strawberries.</b> Apply prior to weed emergence. Crop spotting may occur if an adjuvant is added. <b>Do not apply after fruit set or spotting of fruit may occur.</b> Do not allow spray drift to come in contact with fruit or foliage.



**Table 9. Weeds Controlled by Preemergence Application of *Chateau* Herbicide SW**

BROADLEAF WEED SPECIES		ORGANIC MATTER	SOIL TYPE	CHATEAU HERBICIDE SW RATE
COMMON NAME	SCIENTIFIC NAME			
Bristly Starbur	<i>Acanthospermum hispidum</i>	Up to 10% <sup>1</sup>	All Soil Types <sup>2</sup>	Asparagus, Caneberries, Garlic, Hops 6 oz/A  Bushberries, Citrus Fruit, Grapes, Olive, Pome Fruit, Pomegranate, Stone Fruit, Tree Nuts and Non-Bearing Fruit Trees 6 to 12 oz/A <sup>2</sup>  To Maintain Bare Ground on Non-Crop Areas of Farms, Orchards & Vineyards 6 to 12 oz/A
Carpetweed	<i>Mollugo verticillata</i>			
Chickweeds				
Common	<i>Stellaria media</i>			
Mouseear	<i>Cerastium vulgatum</i>			
Coffee Senna	<i>Cassia occidentalis</i>			
Dandelion	<i>Taraxacum officinale</i>			
Eclipta	<i>Eclipta prostrata</i>			
Evening-primrose, Cutleaf	<i>Oenothera laciniata</i>			
False Chamomile*	<i>Tripleurospermum maritima</i>			
Fiddleneck, Coast*	<i>Amsinckia menziesii</i>			
Field Pennycress*	<i>Thlaspi arvense</i>			
Filaree				
Redstem	<i>Erodium cicutarium</i>			
Whitestem	<i>Erodium moschatum</i>			
Fleabane, Hairy*	<i>Conyza bonariensis</i>			

\*Not for use in California

(continued)

<sup>1</sup> *Chateau* Herbicide SW can be used on soils with greater than 10% organic matter; however, length of residual control may be shorter than on soils with lower organic matter content.

<sup>2</sup> Use a maximum *Chateau* Herbicide SW rate of 6 oz/A per application on any soil that has a sand plus gravel content over 80% if bushes, trees or vines are under 3 years of age.

**Table 9. Weeds Controlled by Preemergence Application of *Chateau* Herbicide SW (continued)**

BROADLEAF WEED SPECIES		ORGANIC MATTER	SOIL TYPE	CHATEAU HERBICIDE SW RATE
COMMON NAME	SCIENTIFIC NAME			
Florida Beggarweed	<i>Desmodium tortuosum</i>	Up to 10% <sup>1</sup>	All Soil Types <sup>2</sup>	Asparagus, Caneberries, Garlic, Hops 6 oz/A  Bushberries, Citrus Fruit, Grapes, Olive, Pome Fruit, Pomegranate, Stone Fruit, Tree Nuts and Non-Bearing Fruit Trees 6 to 12 oz/A <sup>2</sup>  To Maintain Bare Ground on Non-Crop Areas of Farms, Orchards & Vineyards 6 to 12 oz/A
Florida Pusley	<i>Richardia scabra</i>			
Golden Crownbeard	<i>Verbesina encelioides</i>			
Groundsel, Common	<i>Senecio vulgaris</i>			
Hairy Indigo	<i>Indigofera hirsuta</i>			
Hemp Sesbania	<i>Sesbania exaltata</i>			
Henbit	<i>Lamium amplexicaule</i>			
Horseweed/Marestail	<i>Conyza canadensis</i>			
Jimsonweed	<i>Datura stramonium</i>			
Kochia	<i>Kochia scoparia</i>			
Lambsquarters, Common	<i>Chenopodium album</i>			
Mallow				
Common (Cheeseweed)	<i>Malva neglecta</i>			
Little	<i>Malva parviflora</i>			
Mayfield/Falase Chamomile*	<i>Matricaria maritima</i>			

\*Not for use in California

(continued)

<sup>1</sup> *Chateau* Herbicide SW can be used on soils with greater than 10% organic matter; however, length of residual control may be shorter than on soils with lower organic matter content.

<sup>2</sup> Use a maximum *Chateau* Herbicide SW rate of 6 oz/A per application on any soil that has a sand plus gravel content over 80% if bushes, trees or vines are under 3 years of age.

**Table 9. Weeds Controlled by Preemergence Application of *Chateau* Herbicide SW (continued)**

BROADLEAF WEED SPECIES		ORGANIC MATTER	SOIL TYPE	CHATEAU HERBICIDE SW RATE
COMMON NAME	SCIENTIFIC NAME			
Morningglories Entireleaf	<i>Ipomoea hederacea</i> var. <i>integriscula</i>	Up to 10% <sup>1</sup>	All Soil Types <sup>2</sup>	Asparagus, Caneberries, Garlic, Hops 6 oz/A
Ivyleaf	<i>Ipomoea hederacea</i>			
Red/Scarlet	<i>Ipomoea coccinea</i>			
Smallflower	<i>Jacquemontia tamnifolia</i>			
Tall	<i>Ipomoea purpurea</i>			
Mustards				
London Rocket*	<i>Sisymbrium irio</i>			
Tansey*	<i>Desurainia pinnata</i>			
Tumble	<i>Sisymbrium altissimum</i>			
Wild	<i>Brassica kaber</i>			
Nettle, Burning*	<i>Urtica urens</i>	To Maintain Bare Ground on Non-Crop Areas of Farms, Orchards & Vineyards 6 to 12 oz/A		
Nightshades				
Black	<i>Solanum nigrum</i>			
Eastern Black	<i>Solanum ptycanthum</i>			
Hairy	<i>Solanum sarrachoides</i>			

\*Not for use in California

(continued)

<sup>1</sup> *Chateau* Herbicide SW can be used on soils with greater than 10% organic matter; however, length of residual control may be shorter than on soils with lower organic matter content.

<sup>2</sup> Use a maximum *Chateau* Herbicide SW rate of 6 oz/A per application on any soil that has a sand plus gravel content over 80% if bushes, trees or vines are under 3 years of age.

**Table 9. Weeds Controlled by Preemergence Application of *Chateau* Herbicide SW (continued)**

BROADLEAF WEED SPECIES		ORGANIC MATTER	SOIL TYPE	CHATEAU HERBICIDE SW RATE
COMMON NAME	SCIENTIFIC NAME			
Pigweeds		Up to 10% <sup>1</sup>	All Soil Types <sup>2</sup>	Asparagus, Caneberries, Garlic, Hops 6 oz/A  Bushberries, Citrus Fruit, Grapes, Olive, Pome Fruit, Pomegranate, Stone Fruit, Tree Nuts and Non-Bearing Fruit Trees 6 to 12 oz/A <sup>2</sup>  To Maintain Bare Ground on Non-Crop Areas of Farms, Orchards & Vineyards 6 to 12 oz/A
Palmer Amaranth	<i>Amaranthus palmeri</i>			
Redroot	<i>Amaranthus retroflexus</i>			
Smooth	<i>Amaranthus hybridus</i>			
Spiny Amaranth	<i>Amaranthus spinosus</i>			
Tumble	<i>Amaranthus albus</i>			
Prickly Lettuce (China Lettuce)	<i>Lactuca serriola</i>			
Prickly Sida (Teaweed)	<i>Sida spinosa</i>			
Puncturevine	<i>Tribulus terrestris</i>			
Purslane				
Common	<i>Portulaca oleracea</i>			
Horse*	<i>Trianthema portulacastrum</i>			
Radish, Wild	<i>Raphanus raphanistrum</i>			
Ragweed, Common	<i>Ambrosia artemisiifolia</i>			
Redmaids	<i>Calandrinia ciliata</i> var. <i>menziesii</i>			
Redweed	<i>Melochia corchorifolia</i>			
Shepherd's-purse	<i>Capsella bursa-pastoris</i>			
Smellmelon*	<i>Cucumis Melo</i>			

\*Not for use in California

(continued)

<sup>1</sup> *Chateau* Herbicide SW can be used on soils with greater than 10% organic matter; however, length of residual control may be shorter than on soils with lower organic matter content.

<sup>2</sup> Use a maximum *Chateau* Herbicide SW rate of 6 oz/A per application on any soil that has a sand plus gravel content over 80% if bushes, trees or vines are under 3 years of age.

**Table 9. Weeds Controlled by Preemergence Application of *Chateau* Herbicide SW (continued)**

BROADLEAF WEED SPECIES		ORGANIC MATTER	SOIL TYPE	CHATEAU HERBICIDE SW RATE
COMMON NAME	SCIENTIFIC NAME			
Sowthistle, Annual*	<i>Sonchus oleraceus</i>	Up to 10% <sup>1</sup>	All Soil Types <sup>2</sup>	Asparagus, Caneberries, Garlic, Hops 6 oz/A
Spotted Spurge	<i>Euphorbia maculata</i>			
Spurred Anoda	<i>Anoda cristata</i>			
Thistle, Russian	<i>Salsola iberica</i>			
Tropic Croton	<i>Croton glandulosus</i>			
Venice Mallow	<i>Hibiscus trionum</i>			
Waterhemp				
Common	<i>Amaranthus rudis</i>			
Tall	<i>Amaranthus tuberculatus</i>			
White Cockle*	<i>Silene latifolia</i>			
Wild Poinsettia	<i>Euphorbia heterophylla</i>	To Maintain Bare Ground on Non-Crop Areas of Farms, Orchards & Vineyards 6 to 12 oz/A		
Wormwood, Biennial	<i>Artemisia biennis</i>			
Yellow Rocket*	<i>Barbarea vulgaris</i>			

\*Not for use in California

(continued)

<sup>1</sup> *Chateau* Herbicide SW can be used on soils with greater than 10% organic matter; however, length of residual control may be shorter than on soils with lower organic matter content.

<sup>2</sup> Use a maximum *Chateau* Herbicide SW rate of 6 oz/A per application on any soil that has a sand plus gravel content over 80% if bushes, trees or vines are under 3 years of age.

**Table 9. Weeds Controlled by Preemergence Application of *Chateau* Herbicide SW (continued)**

GRASS WEED SPECIES		ORGANIC MATTER	SOIL TYPE	CHATEAU HERBICIDE SW RATE
COMMON NAME	SCIENTIFIC NAME			
Barnyardgrass	<i>Echinochloa crus-galli</i>	Up to 10% <sup>1</sup>	All Soil Types <sup>2</sup>	Asparagus, Caneberries, Garlic, Hops 6 oz/A  Bushberries, Citrus Fruit, Grapes, Olive, Pome Fruit, Pomegranate, Stone Fruit, Tree Nuts and Non-Bearing Fruit Trees 6 to 12 oz/A <sup>2</sup>  To Maintain Bare Ground on Non-Crop Areas of Farms, Orchards & Vineyards 6 to 12 oz/A
Bluegrass, Annual	<i>Poa annua</i>			
Crabgrass				
Large	<i>Digitaria sanguinalis</i>			
Smooth	<i>Digitaria ischaemum</i>			
Foxtails				
Bristly	<i>Setaria verticillata</i>			
Giant	<i>Setaria faberi</i>			
Green	<i>Setaria viridis</i>			
Yellow	<i>Setaria glauca</i>			
Goosegrass	<i>Eleusine indica</i>			
Guineagrass	<i>Panicum maximum</i>			
Johnsongrass, Seedling	<i>Sorghum halepense</i>			
Lovegrass, California	<i>Eragrostis diffusa</i>			
Panicum				
Fall	<i>Panicum dichotomiflorum</i>			
Texas	<i>Panicum texanum</i>			
Ryegrass, Italian*	<i>Lolium multiflorum</i>			
Signalgrass Broadleaf	<i>Brachiaria platyphylla</i>			

\*Not for use in California

<sup>1</sup> *Chateau* Herbicide SW can be used on soils with greater than 10%; however, length of residual control per year may be shorter than on soils with lower organic matter content.

<sup>2</sup> Use a maximum *Chateau* Herbicide SW rate of 6 oz/A per application on any soil that has a sand plus gravel content over 80% if bushes, trees or vines are under 3 years of age.

## **DIRECTIONS FOR USE IN SWEET POTATO**

For Use in the States of Arizona,  
California and Hawaii Only

### **RESTRICTIONS AND LIMITATIONS**

- Do not apply more than 3 oz of *Chateau* Herbicide SW per acre per application.
- Do not make more than 1 application of *Chateau* Herbicide SW per acre per year.
- Do not apply more than 3 oz of *Chateau* Herbicide SW per acre per year.
- Do not apply postemergence to sweet potatoes.
- Do not use greenhouse grown transplants.
- Do not use transplants harvested more than 2 days prior to transplanting.
- Do not use on any sweet potato variety other than "BEAUREGARD", unless user has tested *Chateau* Herbicide SW on other variety and has found crop tolerance to be acceptable.
- Do not apply as a part of any tank mix, except with labeled rates of Command<sup>®</sup>, if tank mix is applied prior to transplanting.

### **TIMING TO SWEET POTATOES**

*Chateau* Herbicide SW must be applied prior to transplanting sweet potatoes.

## **TIMING TO WEEDS**

### **Preemergence to Weeds**

Apply *Chateau* Herbicide SW to soil prior to transplanting sweet potato slips for the preemergence control of the weeds listed in Table 1.

### **DIRECTIONS FOR USE IN BUSHBERRIES, CANEBERRIES, CITRUS FRUIT, GRAPE, OLIVE, POME FRUIT, POMEGRANATE, STONE FRUIT, TREE NUTS AND NON-BEARING FRUIT TREES**

Bushberries: Aronia Berry; Blueberry, High-bush; Buffalo Currant; Chilean Guava; Currant, Black; Currant, Red; Elderberry, European; Barberry, Gooseberry, Honeysuckle, edible; Huckleberry; Jostaberry; Juneberry (Saskatoon Berry); Native Currant; Sea Buckthorn; cultivars, varieties, and/or hybrids of these.

Caneberries: Blackberry, Loganberry, Black Raspberry, Red Raspberry, Wild Raspberry; cultivars, varieties and/or hybrids of these.

Citrus Fruit: Australian Desert Lime; Australian Finger-lime; Australian Round Lime; Brown River Finger Lime; Calamondin; Citron; Citrus hybrids; Grapefruit; Japanese Summer Grapefruit; Kumquat; Lemon; Lime; Mediterranean

Mandarin; Mount White Lime; New Guinea Wild Lime; Orange, Sour; Orange, Sweet; Pummelo; Russell River Lime; Satsuma Mandarin; Sweet Lime; Tachibana Orange; Tahiti Lime; Tangelo; Tangerine (Mandarin); Tangor; Trifoliate Orange; UniQ Fruit; cultivars, varieties and/or hybrids of these.

Tree Nuts: African Nut-tree; Almond, Beechnut; Brazil Nut; Brazilian Pine; Bunya; Bur Oak; Butternut; Cajou Nut; Candlenut; Cashew; Chestnut; Chinquapin; Coconut; Coquito Nut; Dika Nut; Ginkgo; Guiana Chestnut; Hazelnut (Filbert); Heartnut; Hickory Nut; Japanese Horse-chestnut; Macadamia Nut; Mongongo Nut; Monkey-pot; Monkey Puzzle Nut; Okari Nut; Pachira Nut; Peach Palm Nut; Pecan; Pequi; Pili Nut; Pine Nut; Pistachio; Sapucaia Nut; Tropical Almond; Walnut, Black; Walnut, English; Yellowhorn; cultivars, varieties and/or hybrids of these.

Pome Fruit: Apple; Azarole; Crabapple; Loquat; Mayhaw; Medlar; Pear; Pear, Asian; Quince; Quince, Chinese; Quince, Japanese; Tejocote; cultivars, varieties and/or hybrids of these.

Stone Fruit (Crop Group 12-12): Apricot; Apricot, Japanese; Capulin; Cherry, Black; Cherry, Nanking; Cherry, Sweet; Cherry, Tart; Jujube, Chinese; Nectarine; Peach; Plum; Plum, American; Plum, Beach; Plum, Canada; Plum, Cherry; Plum, Chickasaw; Plum, Damson; Plum, Japanese; Plum, Klamath; Plum, Prune; Plumcot; Sloe and cultivars, varieties and hybrids of these.

### **RESTRICTIONS AND LIMITATIONS**

- Do not apply more than 12 oz of *Chateau* Herbicide SW per acre per application, except Caneberries do not apply more than 6 oz *Chateau* Herbicide SW per acre per application.
- Do not apply more than 24 oz of *Chateau* Herbicide SW per acre per year, except: Bushberries do not apply more than 12 oz per acre per year; Caneberries do not apply more than 6 oz per acre per year.
- Do not make a sequential application within 30 days of the first application, except tree nuts; do not make a sequential application within 60 days of the first application.
- Do not apply to farm alleys or roads where traffic may result in treated dust settling onto crops or other desirable vegetation.



- Do not apply within 300 yards of non-dormant pome fruit and stone fruit.
- Do not apply to powdery soils or soils that are susceptible to wind displacement unless irrigation can be applied immediately after application.
- Do not mow treated areas between bud break and final harvest. Dust created by mowing may drift onto desirable vegetation resulting in injury.
- Do not apply to tree nuts established less than one year, unless protected from spray contact by non-porous wraps, grow tubes, or waxed containers.
- For non-bearing fruit trees (avocado and fig), do not harvest fruit from treated trees within one year of application.
- Preharvest Interval (PHI)
  - Citrus Fruit: 3 days
  - Bushberries: 7 days
  - Caneberries: 7 days
  - Grape: 60 days
  - Tree Nuts: 60 days
  - Olive: 60 days
  - Pome Fruit: 60 days
  - Pomegranate: 60 days
  - Stone Fruit: 60 days

## PRECAUTIONS

- Use a maximum *Chateau* Herbicide SW rate of 6 oz/A per application on any soil that has a sand plus gravel content over 80% if bushes, trees or vines are less than 3 years of age. (Two applications of 6 oz/A in a 12 month period can still be made as long as there have been 60 days between applications).
- Raise mower height during all mowing to reduce dust. Dust created by mowing can drift onto desirable vegetation resulting in injury.
- Follow the most restrictive label limitations and precautions of the tank mix product(s) being used.
- Avoid direct or indirect spray contact to foliage and green bark or canes (non-barked trunk and non-barked vines with the exception of undesirable suckers).
- Irrigate after application with minimum of 1/4 inch of water to activate the herbicide and to reduce wind displacement of soil.

## USE PRECAUTIONS FOR BUSHBERRIES

- If bushberries are established less than 2 years ensure that they are protected from spray contact by non-porous wrap, grow tubes or waxed containers.

## USE PRECAUTIONS FOR GRAPES

- If grapes are established less than 2 years ensure that they are trellised at least 3 ft from the soil surface or are protected from spray contact by non-porous wrap, grow tubes or waxed containers.
- Apply only to grapes that are trellised, staked or are free standing.
- Avoid direct or indirect spray contact to foliage and green bark (non-barked vines, with the exception of undesirable suckers).
- Plant new plantings of “own-rooted varieties”, for example Concord, so that all roots are a minimum 8 inches below the soil surface to be treated. In some situations, this may require hilling soil around newly planted vines so that the settled depth of the hill will be 4 to 5 inches above the vineyard floor.

## Juice, Raisin and Wine Grapes

- If applied during the period after bud break through final harvest, use shielded application equipment and applicator can ensure spray drift will not come in contact with crop fruit or foliage.

## Table Grapes

- Apply *Chateau* Herbicide SW between final harvest up to bud break.

## USE PRECAUTIONS FOR CITRUS FRUIT, OLIVE, POME FRUIT, POMEGRANATE, STONE FRUIT AND TREE NUTS

- For pome fruit and stone fruit, *Chateau* Herbicide SW can only be applied as a uniform band directed at the base of the trunk prior to silver tip in apples and bud break in stone fruit.
- For pome fruit and stone fruit make applications only to berms.
- For olive, pomegranate and tree nuts apply after bud break through final harvest using shielded application equipment if the applicator can ensure the spray drift will not come into contact with non-target vegetation, crop fruit and/or foliage. Shielded application equipment is not required if the following application parameters are followed:
  - Application pressure (at boom) < 30 PSI.
  - Application speed < 5 MPH.
  - Applicator can ensure the spray drift will not come into contact with non-target vegetation, crop fruit and/or foliage.
- If application is made to trees established less than one year, ensure that they are protected from spray contact by non-porous wraps, grow tubes, paint or waxed containers.

-For apples east of the Cascade Mountains in Washington, follow the restrictions above plus:

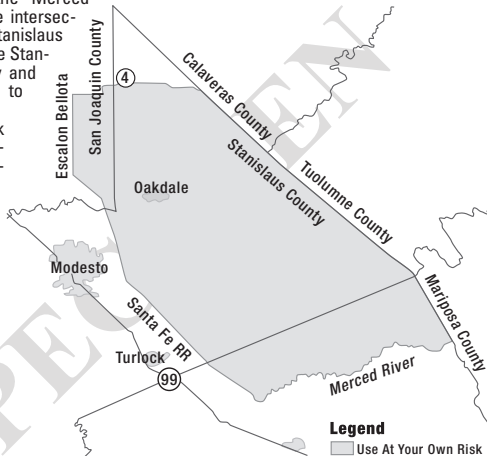
- Apply between final harvest and January 1.
- Apply only to apple blocks with an established (2 years or older) permanent cover crop that covers a minimum of 60% of the surface area in the block.
- Application must be incorporated with a minimum of one half inch of water within 48 hours after application.
- Apply only to orchard berms.
- **California only:** See use precautions on almonds and stone fruit in the counties of Merced, San Joaquin and Stanislaus section of this label.

#### **USE PRECAUTIONS ON ALMOND AND STONE FRUIT IN DEFINED AREAS OF MERCED, SAN JOAQUIN AND STANISLAUS COUNTIES OF CALIFORNIA**

The use of *Chateau* Herbicide SW in soils common in parts of Merced, San Joaquin and Stanislaus counties in California is known to have resulted in injury to almonds under drought stress conditions. These soils are characterized by having been cut or filled, high sand content, low clay content and shallow profiles. Growers in the Defined Area must be aware and assume the risk of using *Chateau* Herbicide SW on almond or stone fruit crops. The Defined Area can be seen on the Map or by the description that follows:

- Intersection of Highway 4 and Escalon-Bellota Road at Farmington in San Joaquin County;
- Directly South on Escalon-Bellota to the Santa Fe Avenue and railroad tracks at Escalon;
- Southeast on Santa Fe Avenue down to the Merced River;
- East following the Merced River to the Merced/Mariposa County line;

- Northwest following the Merced County line through the intersection of Merced and Stanislaus County line following the Stanislaus/Tuolumne County and Calaveras County line to Highway 4;
- West on Highway 4 back to the Farmington intersection of Escalon-Bellota Road.



## **USE PRECAUTIONS FOR NON-BEARING FRUIT TREES**

Non-Bearing Avocado and Fig

- If trees are established less than one year, ensure that they are protected from spray contact by non-porous wraps, grow tubes or waxed containers.
- If applied after flowering through leaf drop, use shielded application equipment and the applicator can ensure spray drift will not come in contact with the crop foliage.

## **DIRECTION FOR USE FOR BUSHBERRIES, CANEERRIES, CITRUS FRUIT, GRAPE, OLIVE, POMEGRANATE, TREE NUTS AND NON-BEARING FRUIT TREES**

For bushberries, caneberries, citrus fruit, grape, olive, pomegranate, tree nuts and non-bearing fruit trees, apply *Chateau* Herbicide SW as a uniform broadcast application to the orchard or vineyard floor or as a uniform band application directed at the base of the bush, cane, trunk or vine. For stone fruit and pear, *Chateau* Herbicide SW can only be applied as a uniform band directed at the base of the trunk prior to "bud break". For apple, *Chateau* Herbicide SW can only

be applied as a uniform band directed at the base of the trunk prior to "silver tip". For other pome fruit, check with Valent personnel for application timing. The preferred application timing for *Chateau* Herbicide SW is in the fall to maximize the potential for rainfall to activate and set the herbicide. Do not apply over the top of crop or allow spray to come in contact with crop as a result of application or drift.

## **Preemergence Application**

Apply 6 to 12 oz (maximum 6 oz/A for caneberries) of *Chateau* Herbicide SW per broadcast acre as a preemergence application. Make preemergence (to weed emergence) applications of *Chateau* Herbicide SW to a weed-free soil surface. Preemergence applications of *Chateau* Herbicide SW must be completed prior to weed emergence. Moisture is necessary to activate *Chateau* Herbicide SW on soil for residual weed control. Dry weather following application of *Chateau* Herbicide SW may reduce effectiveness. However, when adequate moisture is received after dry conditions, *Chateau* Herbicide SW will control susceptible germinating weeds.

## Postemergence Application

If weeds are emerged at the time of application, apply 6 to 12 oz (maximum 6 oz/A for caneberries) of *Chateau* Herbicide SW per broadcast acre plus an adjuvant (0.25% v/v non-ionic surfactant or 1 qt/A crop oil concentrate). The addition of an adjuvant enhances *Chateau* Herbicide SW activity on emerged weeds. Thorough spray coverage is necessary to maximize the postemergence activity of *Chateau* Herbicide SW. *Chateau* Herbicide SW will not control emerged weeds without the addition of a labeled burndown product.

Refer to Table 9, Weeds Controlled by Preemergence Application of *Chateau* Herbicide SW for weeds controlled by the residual activity of *Chateau* Herbicide SW. Tank mix *Chateau* Herbicide SW with a labeled burndown herbicide for control of the emerged weeds listed in Table 10, Weeds Controlled by Postemergence Activity of *Chateau* Herbicide SW Tank Mixes. Refer to tank mix partner's label for additional weed species and increased weed heights claimed. Refer to tank mix partner's label for additional restrictions, including minimum carrier volume and crops in which tank mix partner may be used. Tank mixes with glyphosate

or 2,4-D containing products are not recommended during the period after bloom through final harvest to ensure crop safety from drift.

Residual weed control will be reduced if vegetation prevents the *Chateau* Herbicide SW from reaching the soil surface. If vegetation is heavy, use a burndown herbicide with *Chateau* Herbicide SW and make a sequential *Chateau* Herbicide SW application prior to the emergence of new weeds.

## Carrier Volume and Spray Pressure

To ensure thorough coverage in burndown applications, use a minimum of 15 gallons of spray solution per acre. Use higher gallonage if dense vegetation or heavy crop residue is present.

Nozzle selection must meet manufacturer's gallonage and pressure guidelines.

## Banded Application

Rates listed in Table 10, Weeds Controlled by Postemergence Activity of *Chateau* Herbicide SW Tank Mixes, refer to a broadcast application covering the entire acre. Refer to the Band Application table in Use Information section to calculate amount needed per acre when making a banded application.

**Table 10. Weeds Controlled by Postemergence Activity of *Chateau* Herbicide SW Tank Mixes**

BROADLEAF WEED SPECIES		WEED HEIGHT/LENGTH (inches)	CHATEAU HERBICIDE SW RATE
COMMON NAME	SCIENTIFIC NAME		
Bindweed, Field <sup>1</sup>	<i>Convolvulus arvensis</i>	8	6 to 12 oz/A
Carpetweed	<i>Mollugo verticillata</i>	4	
Chickweeds			
Common	<i>Stellaria media</i>	4	
Mouseear	<i>Cerastium vulgatum</i>	4	
Cocklebur, Common	<i>Xanthium strumarium</i>	4	
Evening-primrose, Cutleaf <sup>2</sup>	<i>Oenothera laciniata</i>	12	
Filaree			
Broadleaf	<i>Erodium botrys</i>	4	
Redstem	<i>Erodium cicutarium</i>	4	
Florida Beggarweed	<i>Desmodium tortuosum</i>	2	
Hemp Sesbania	<i>Sesbania exaltata</i>	8	
Jimsonweed	<i>Datura stramonium</i>	4	
Lambsquarters, Common	<i>Chenopodium album</i>	4	

(continued)

<sup>1</sup> *Chateau* Herbicide SW will only provide control of the above ground portion of bindweed. Repeated applications will be needed to control regrowth.

<sup>2</sup> For acceptable control, cutleaf eveningprimrose must be 12 inches or less and in the rosette stage. Add crop oil concentrate, at 1 pt/A, or non-ionic surfactant at 0.25% v/v, to glyphosate tank mixes for cutleaf eveningprimrose control, including glyphosate formulations that contain a built-in adjuvant system.

**Table 10. Weeds Controlled by Postemergence Activity of *Chateau* Herbicide SW Tank Mixes (continued)**

<b>BROADLEAF WEED SPECIES</b>		<b>WEED HEIGHT/LENGTH (inches)</b>	<b>CHATEAU HERBICIDE SW RATE</b>
<b>COMMON NAME</b>	<b>SCIENTIFIC NAME</b>		
Morningglories			
Entireleaf	<i>Ipomoea hederacea</i> var. <i>integriuscula</i>	4	6 to 12 oz/A
Ivyleaf	<i>Ipomoea hederacea</i>	4	
Pitted	<i>Ipomoea lacunosa</i>	6	
Red/Scarlet	<i>Ipomoea coccinea</i>	4	
Tall	<i>Ipomoea purpurea</i>	4	
Mustard, Wild	<i>Brassica kaber</i>	6	
Pigweeds			
Palmer Amaranth	<i>Amaranthus palmeri</i>	6	
Redroot	<i>Amaranthus retroflexus</i>	6	
Smooth	<i>Amaranthus hybridus</i>	6	
Plantain, Broadleaf	<i>Plantago major</i>	6	
Prickly Sida (Teaweed)	<i>Sida spinosa</i>	6	
Purslanes			
Common	<i>Portulaca oleracea</i>	4	
Rock	<i>Calandrinia</i> spp.	2	
Ragweeds			
Common	<i>Ambrosia artemisiifolia</i>	2	
Giant	<i>Ambrosia trifida</i>	4	
Rice Flatsedge	<i>Cyperus iria</i>	4	
Sicklepod	<i>Senna obtusifolia</i>	4	

(continued)



**Table 10. Weeds Controlled by Postemergence Activity of *Chateau* Herbicide SW Tank Mixes (continued)**

BROADLEAF WEED SPECIES		WEED HEIGHT/LENGTH (inches)	CHATEAU HERBICIDE SW RATE
COMMON NAME	SCIENTIFIC NAME		
Smartweeds			
Ladysthumb	<i>Polygonum persicaria</i>	4	6 to 12 oz/A
Pale	<i>Polygonum lapathifolium</i>	4	
Pennsylvania	<i>Polygonum pennsylvanicum</i>	4	
Spotted Spurge	<i>Euphorbia maculata</i>	4	
Velvetleaf	<i>Abutilon theophrasti</i>	4	
Venice Mallow	<i>Hibiscus trionum</i>	4	
Waterhemp			
Common	<i>Amaranthus rudis</i>	2	
Tall	<i>Amaranthus tuberculatus</i>	2	

#### ADDITIONAL RESIDUAL WEED CONTROL

*Chateau* Herbicide SW maybe tank mixed with oryzalin (Surflan®), simazine or diuron for additional residual weed control. Always read and follow label use directions for all products being used.

#### DIRECTIONS FOR FALLOWED USE ON TRANSPLANTED MELON, PEPPER AND TOMATO BEDS

For Use in Arizona, California and Hawaii Only

#### RESTRICTIONS AND LIMITATIONS

- Do not apply more than 4 oz of *Chateau* Herbicide SW per acre per application.
- Do not make more than 2 applications of *Chateau* Herbicide SW per acre per year.
- Do not apply more than 8 oz of *Chateau* Herbicide SW per acre per year.

Many weather related factors, including high wind or heavy rains or cool conditions at or near crop transplanting, may result in crop injury in fields treated with *Chateau*

Herbicide SW. On occasion this has resulted in a delay in maturity. Understand and accept these risks before using *Chateau* Herbicide SW.

<b>CHATEAU HERBICIDE SW RATES</b>	<b>ADJUVANT</b>	<b>GPA</b>	<b>TRANSPLANTING INTERVAL</b>
4 oz/A	Required by burndown tank mix partner	Ground 20 to 40	2 Months
<p><b>Application Method:</b> Apply with a burndown herbicide labeled for the control of emerged weeds. <i>Chateau</i> Herbicide SW, when used alone, will not provide satisfactory control of emerged weeds.</p>			

### **Use Directions for Preemergence Fallowbed Weed Control Prior To Transplanting**

1. Always read and follow all label directions when using any pesticide alone or in tank mix combinations.
2. The top 4 inches of the bed, from a horizontal and vertical perspective, where the crop will be transplanted, must be removed prior to transplanting.
3. Irrigate treated field after application and prior to transplanting with minimum of 1/4

inch of water if rainfall does not occur between application and transplanting.

4. Use only healthy transplants. Do not use on direct seeded crops.
5. On flat beds (tomato only), the soil must be incorporated to a depth of at least 4 inches, twice, prior to transplanting. Failure to incorporate may result in stand reduction and/or crop injury.
6. This use pattern makes no claim for in-season weed control after the beds have been disturbed.



Beds are formed and *Chateau* Herbicide SW applied with a burndown herbicide.



A minimum of 2 months after *Chateau* Herbicide SW application, the tops of the beds are removed and the soil from the tops of the beds is placed in the area between the beds.



Crops are transplanted into beds.

### **DIRECTIONS FOR USE TO MAINTAIN BARE GROUND ON NON-CROP AREAS OF FARMS, ORCHARDS AND VINEYARDS**

#### **RESTRICTIONS AND LIMITATIONS**

- Do not apply to farm alleys or roads where traffic may result in treated dust settling onto crops or other desirable vegetation.
- Do not apply to ditch banks.

*Chateau* Herbicide SW, when used as directed, can be used on farms, orchards and vineyards for non-selective vegetation control to maintain bare ground on non-crop areas that must be kept weed free. Follow all applicable directions as outlined above under "USE INFORMATION".

*Chateau* Herbicide SW offers residual and postemergence control of susceptible broad-

leaf and grass weeds as well as an additional mode of action to assist in the control of ALS (acetolactate synthase) resistant weeds. *Chateau* Herbicide SW can be tank mixed with the herbicides listed in Table 11 for increased residual or postemergence control. The length of residual control is dependent on the rate applied as well as on rainfall and temperature conditions. Length of residual control will decrease as temperature and precipitation increase. *Chateau* Herbicide SW rates of 6 to 12 oz/A are required to provide residual control of the weeds listed in Table 9.

#### **PREEMERGENCE APPLICATION**

Apply 6 to 12 oz (0.188 to 0.38 lb ai/A) of *Chateau* Herbicide SW per broadcast acre as a preemergence application. Make preemergence (to weed emergence) applications of *Chateau* Herbicide SW to a weed-free soil surface. Preemergence applications of *Chateau* Herbicide SW must be completed prior to weed emergence. Moisture is necessary to activate *Chateau* Herbicide SW on soil for residual weed control. Dry weather following application of *Chateau* Herbicide SW may reduce effectiveness. However, when adequate moisture

is received after dry conditions, *Chateau* Herbicide SW will control susceptible germinating weeds.

#### **POSTEMERGENCE APPLICATION**

Apply 6 to 12 oz (0.188 to 0.38 lb ai/A) of *Chateau* Herbicide SW per broadcast acre plus an adjuvant (0.25% v/v non-ionic surfactant or 1 qt/A crop oil concentrate). The addition of an adjuvant enhances *Chateau* Herbicide SW activity on emerged weeds. Thorough spray coverage is necessary to maximize the postemergence activity of *Chateau* Herbicide SW. Emerged weeds are controlled postemergence with *Chateau* Herbicide SW, however, translocation of *Chateau* Herbicide SW within a weed is limited, and control is affected by spray coverage and by the addition of an adjuvant. The most effective postemergence weed control with *Chateau* Herbicide SW occurs when applied in combination with a surfactant to weeds less than 2 inches in height. Use a tank mix partner in combination with *Chateau* Herbicide SW for the postemergence control of weeds larger than 2 inches. Specified tank mix partners are listed in Table 11.

**IMPORTANT:** Completely read and follow the label of any potential tank mix partner with *Chateau* Herbicide SW. When using tank mixtures, use conditions must be in accordance with the most restrictive of the label limitations and precautions on either herbicide label.

**Table 11. Tank Mix Combinations to Maintain Bare Ground on Non-Crop Areas**

glyphosate	2,4-D	Rely	paraquat
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## STORAGE AND DISPOSAL

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

### PESTICIDE STORAGE

Keep pesticide in original container.

Store in a cool, dry, secure place.

Do not put formulation or dilute spray solution into food or drink containers.

Do not contaminate food or foodstuffs.

Do not store or transport near feed or food.

Not for use or storage in or around the home.

For help with any spill, leak, fire or exposure involving this material, call day or night

**(800) 892-0099.**

## PESTICIDE DISPOSAL

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

### CONTAINER HANDLING

Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 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, if available or puncture and dispose of in a sanitary landfill.

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Surflan is a registered trademark of United Phosphorus, Inc.

SPECIMEN

Manufactured for:

**Valent U.S.A. LLC**

P.O. Box 8025

Walnut Creek CA 94596-8025

Made in U.S.A.

Form 1487-M

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SAL20180802

059639-00099.20190709.Valor.NOTIF

EPA Reg. No. 59639-99

EPA Est. 11773-IA-1<sup>®</sup>, 39578-TX-1<sup>®</sup>,

47857-CA-1

Superscript is first letter of lot number.

Information contained in this booklet is accurate at the time of printing. Since product testing is a continuous process, please read and follow the directions on the product label for the most current directions and precautionary statements.

Always check with your state to verify state registration status or call 800-6-VALENT (682-5368).

For state registration and/or supplemental labels, please call or visit us online.

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***Always read and follow label instructions.***

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**NET WEIGHT 2-1/2 POUNDS**

Active Ingredient	By Wt
Flumioxazin* .....	51.0%
Other Ingredients .....	49.0%
Total	100.0%

\* 2-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl]-4,5,6,7-tetrahydro-1H-isoindole-1,3(2H)-dione

Chateau® Herbicide SW is a water dispersible granule containing 51% active ingredient.

EPA Reg. No. 59639-99

EPA Est. 11773-IA-1©, 39578-TX-1©, 47857-CA-1

Superscript is first letter of lot number.

**KEEP OUT OF  
REACH OF CHILDREN  
CAUTION**

SEE BOOKLET FOR ADDITIONAL  
PRECAUTIONARY STATEMENTS

Valent U.S.A. LLC

P.O. Box 8025

Walnut Creek CA 94596-8025

FOR CONTROL AND/OR SUPPRESSION  
OF CERTAIN WEEDS IN ALFALFA;  
ARTICHOKE; ASPARAGUS; BUSHBERRIES;  
CANE BERRIES; CELERY; CITRUS; CLOVER;  
COTTON; FIELD CORN; DRY BEAN; GARLIC;  
GRAPE; HOPS; MINT; OLIVE; ONION (DRY  
BULB); POME FRUIT; POMEGRANATE; POTATO;  
STONE FRUIT; STRAWBERRY; SWEET POTATO; TREE  
NUTS; NON-BEARING FRUIT TREES; FALLOWED  
USE ON TRANSPLANTED MELON; PEPPER AND  
TOMATO BEDS; FALLOW LAND AND TO MAINTAIN  
BARE GROUND ON NON-CROP AREAS OF FARMS,  
ORCHARDS AND VINEYARDS.



**CHATEAU®**

H E R B I C I D E S W

Form 1487-M

Date 11/26/19