



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

December 17, 2021

Robert L. Hamilton
Sr. Regulatory Scientist
Valent U.S.A. Corporation
1600 Riviera Ave., Suite 200
Walnut Creek, CA 94596-8025

Subject: Registration Review Label Mitigation for flumiclorac-pentyl
Product Name: Stellar Herbicide
EPA Registration Number: 59639-92
Application Date: 06/01/2018
Decision Number: 580340

Dear Mr. Hamilton:

The Agency, in accordance with the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, has completed reviewing all the information submitted with your application to support the Registration Review of the above referenced product in connection with the flumiclorac-pentyl Interim Decision, and has concluded that your submission is acceptable. The label referred to above, submitted in connection with registration under FIFRA, as amended, is acceptable.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 12 months from the date of this letter. After 12 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

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If you have any questions about this letter, please contact Srijana Shrestha by phone at 202-566-2329, or via email at shrestha.srijana@epa.gov.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Linda Arrington', with a stylized flourish at the end.

Linda Arrington, Branch Chief
Risk Management and Implementation Branch 4
Pesticide Re-Evaluation Division
Office of Pesticide Programs

Enclosure: Stamped Label



FLUMICLORAC-PENTYL	GROUP	14	HERBICIDE
LACTOFEN	GROUP	14	HERBICIDE

STELLAR[®] Herbicide

Active Ingredient	By Wt.
Flumiclorac pentyl ester*	7.6%
Lactofen**	26.6%
Other Ingredients	65.8%
Total	100.0%

*pentyl [2-chloro-4-fluoro-5-(1,3,4,5,6,7-hexahydro-1,3-dioxo-2H-isoindol-2-yl)phenoxy]acetate
 **1-(carboethoxy) ethyl 5-[2-chloro-4-(trifluoromethyl) phenoxy]-2-nitrobenzoate

Contains petroleum distillates
 Contains 0.7 lb/gal flumiclorac pentyl ester and 2.4 lb/gal lactofen

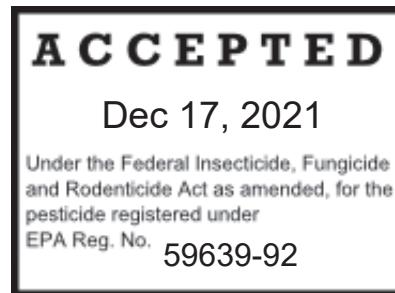
KEEP OUT OF REACH OF CHILDREN

DANGER - PELIGRO

SEE NEXT PAGE FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

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

NET CONTENTS 1 GALLON
 EPA Reg. No. 59639-92
 EPA Est.



FIRST AID

- If in eyes:**
- Hold eyelid open and rinse slowly and gently with water for 15-20 minutes.
 - Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
 - Call a poison control center or doctor for treatment advice.
- If swallowed:**
- Immediately call a poison control center or doctor.
 - Do not induce vomiting unless told to do so by a poison control center or doctor.
 - Do not give **any** liquid to the person.
 - Do not give anything by mouth to an unconscious person.
- 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 inhaled:**
- Move person to fresh air.
 - If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.
 - Call a poison control center or doctor for treatment advice.

HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For non-emergency information on this product, call (1-800-6-VALENT (682-5368), Monday through Friday, 9 a.m. to 5 p.m. For medical emergencies, call the poison control center at 1-800-892-0099.

NOTE TO PHYSICIAN

If ingested, probable mucosal damage may contraindicate the use of gastric lavage. This product contains a light hydrocarbon liquid; ingestion or subsequent vomiting can result in aspiration of this product, which can cause pneumonitis.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS

DANGER: CORROSIVE TO EYES. Causes irreversible eye damage. Harmful if swallowed or absorbed through the skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Do not get in eyes or on skin or clothing. Avoid breathing vapor or spray mist.

This product contains lactofen, which has been determined to cause tumors in laboratory animals (mouse, rat). Risks can be reduced by closely following use directions and precautions, and by wearing the protective clothing specified elsewhere on this label.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

Applicators and other handlers must wear: long sleeved shirt and long pants, chemical-resistant gloves such as barrier laminate, butyl rubber \geq 14 mils, nitrile rubber \geq 14 mils, polyvinyl chloride (PVC) \geq 14 mils or Viton \geq 14 mils, shoes plus socks and protective eyewear.

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

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

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing 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 shrimp and fish. Keep out of lakes, ponds or streams. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

Do not apply under conditions involving possible drift to food, forage or other plantings that might be damaged or the crops thereof rendered unfit for sale, use or consumption.

Do not apply during wind speeds of greater than 10 miles per hour or during inversions. Local regulations permitting, an inversion can be identified by discharging a column of smoke. During an inversion, the column of smoke will rise and then abruptly level off. Sometimes during an inversion, the smoke can be seen to drop below the height at which the leveling off occurred. In the absence of an inversion the smoke will continue to rise and disperse into the atmosphere.

NON-TARGET ORGANISM ADVISORY STATEMENT

This product is toxic to plants and may adversely impact the forage and habitat of non-target organisms, including pollinators, in areas adjacent to the treated site. Protect the forage and habitat of non-target organisms by following the label directions intended to minimize spray drift.

PHYSICAL OR CHEMICAL HAZARDS:

Do not use or store near heat or open flame.

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 instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow workers entry into treated areas during the restricted-entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: coveralls, chemical-resistant gloves such as barrier laminate, butyl rubber \geq 14 mils, nitrile rubber \geq 14 mils, polyvinyl chloride (PVC) \geq 14 mils or Viton \geq 14 mils, shoes plus socks, and protective eyewear.

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PRODUCT INFORMATION

FOR USE IN: Soybeans

Stellar® Herbicide is a selective herbicide for postemergence control of susceptible broadleaf weeds in soybeans. *Stellar* Herbicide may also be used for suppression of white mold in soybeans.

Always read and follow all label directions when using any pesticide alone or in tank mix combinations. The most restrictive labeling applies when using a tank mix.

RESTRICTIONS AND LIMITATIONS

- **Do not apply this product through any type of irrigation system.**
- **Do not apply by air.**
- Do not apply within 60 days of harvest.
- Do not graze animals on green forage or stubble.
- Do not utilize hay or straw for animal feed or bedding.
- Do not apply more than 7 fl oz of *Stellar* Herbicide per acre per application.
- Do not apply more than 10 fl oz of *Stellar* Herbicide per acre per year.
- Do not apply more than two applications per acre per year at the 5 fl oz rate.

ENVIRONMENTAL CONDITIONS AND BIOLOGICAL PERFORMANCE

For best results, apply *Stellar* to actively growing weeds within the growth stages indicated in this label. Applying *Stellar* under conditions that do not promote active weed growth will reduce herbicide effectiveness. Do not apply *Stellar* when the crop or weeds are under stress due to drought, excessive water, extremes in temperature, or low humidity. Weeds under stress tend to become less susceptible to herbicidal action. *Stellar* is most effective when applied under sunny conditions at temperatures above 70°F.

CROP RESPONSE

Soybean leaves, which are open at the time of application, may exhibit a temporary foliage burn (bronzing and speckling). Trifoliolate soybean leaves, which have emerged but are not open at the time of application, may appear cupped at the tip and/or crinkled along the leaf margins. Under conditions favorable to growth, these phytotoxic symptoms are cosmetic, and the soybeans will quickly outgrow these effects.

RAINFASTNESS

Stellar is rainfast one hour after application. If applications are made within one hour of rain, efficacy may be reduced

CARRIER VOLUME AND SPRAY PRESSURE

Use *Stellar* on a broadcast basis in a minimum of 15 gallons of water per acre and a spray pressure of 35 to 60 PSI measured at the spray nozzle. If weed populations are moderate to heavy and/or weeds are approaching maximum labeled size and/or crop canopy is dense, use a minimum of 20 GPA of water and a spray pressure of 40 to 50 PSI. Ensure that nozzles meet manufacturer's gallonage and pressure specifications for postemergence herbicide application.

ADDITIVES

Control of weeds by *Stellar* requires the addition of an agronomically approved adjuvant to the spray mixture. Either a crop oil concentrate or methylated seed oil, which contains at least 15% emulsifiers and 80% oil, may be used when applying *Stellar*. Certain tank mixes require the use of a non-ionic surfactant. Non-ionic surfactants must contain at least 80% active ingredient and must be EPA approved for use on food crops. Mixing compatibility qualities should be verified by a jar test.

A spray grade nitrogen source (either ammonium sulfate at 2.0 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 crop oil concentrate, methylated seed oil, or non-ionic surfactant.

JAR TEST TO DETERMINE COMPATIBILITY OF ADJUVANTS AND STELLAR

Perform a jar test before mixing commercial quantities of *Stellar* when using *Stellar* 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. The water should be from the same source and temperature as will be used in the spray tank mixing operation.
2. Add 2 ml of *Stellar* to the quart jar, gently mix until product dissipates.
3. Add 6 ml (1 teaspoon) of the crop oil concentrate or methylated seed oil to the quart jar, gently mix. If a non-ionic surfactant is being used in a tank mix, add 2.5 ml (0.3 teaspoon) of the non-ionic surfactant in place of the oil.
4. If nitrogen is being used, add 16 ml (1 tablespoon or 0.5 oz) of the 28 to 32% nitrogen source to the quart jar. If ammonium sulfate is being used, add 19 grams AMS to the quart jar in place of the 28 to 32% nitrogen. Add ammonium sulfate to the jar before the *Stellar* in step 2.
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. If any of the following conditions are observed question the choice of adjuvant:
 - 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.

MIXING INSTRUCTIONS

1. Fill clean spray tank 1/3 to 1/2 of desired level with clean water.
2. While agitating, add the required amount of *Stellar*. Agitation creates a rippling or rolling action on the water surface. If tank mixing *Stellar* with other labeled pesticides, add water soluble bags first, followed by dry formulations, flowables, emulsifiable concentrates, and then solutions. Prepare no more spray mixture than is required for the immediate spray operation.
3. Add any required adjuvants.
4. Add any required nitrogen source, unless ammonium sulfate (AMS) is being used. If AMS is being used as the nitrogen source, add after water-soluble bags and before dry herbicides.
5. Fill spray tank to desired level with water. Continue agitation until spray solution has been applied.
6. Mix only the amount of spray solution that can be applied the day of mixing. *Stellar* will remain active in the spray solution for 12 hours.

APPLICATION EQUIPMENT

Use application equipment that is clean and in good repair. Uniformly space nozzles on boom and frequently check for accuracy. To provide proper spray coverage, ensure that ground speed does not exceed 10 mph. Improper use of the selected spray nozzle will adversely affect the spray pattern, prevent proper coverage of weed leaf surface, and reduce weed control. Refer to the manufacturer's spray chart for nozzle selection and operating information.

BROADCAST APPLICATION

Apply *Stellar* Herbicide and *Stellar* Herbicide tank mixes with ground equipment using standard commercial sprayers equipped with flat fan (including split-nozzle systems that spray in opposite directions) or hollow cone nozzles designed to deliver the desired spray pressure and spray volume. DO NOT USE flood nozzles. Thorough weed coverage is required for optimum control. Spray nozzles should be centered at a maximum of 20 inch spacing to provide adequate coverage.

BAND APPLICATION

When banding, use proportionately less water and *Stellar* Herbicide per acre. Banding equipment should be adjusted to provide maximum coverage of weeds in the row. A minimum of two nozzles per row is required to provide optimum coverage of weed foliage.

MANDATORY SPRAY DRIFT MANAGEMENT

Ground Boom Application

- Apply with the nozzle height recommended by the manufacturer, but no more than 3 feet above the ground or crop canopy.
- Do not apply when wind speeds exceed 10 miles per hour at the application site.
- Do not apply during temperature inversions.

SPRAY DRIFT ADVISORIES

THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT.
BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.

IMPORTANCE OF DROPLET SIZE

An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.

Controlling Droplet Size – Ground Boom

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

BOOM HEIGHT – Ground Boom

Use the lowest boom height that is compatible with the spray nozzles that will provide uniform coverage. For ground equipment, the boom should remain level with the crop and have minimal bounce.

SHEILDED SPRAYERS

Shielding the boom or individual nozzles can reduce spray drift. Consider using shielded sprayers. Verify that the shields are not interfering with the uniform deposition of the spray on the target area.

TEMPERATURE AND HUMIDITY

When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.

TEMPERATURE INVERSIONS

Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. The presence of an inversion can be indicated by ground fog or by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing. Avoid applications during temperature inversions.

WIND

Drift potential generally increases with wind speed. AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS.

Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.

APPLICATION & CULTIVATION

Do not cultivate prior to or during application. Do not generate excessive dust while spraying. Excessively dusty conditions may interfere with the coverage of the weed leaf surface by the spray solution. Cultivation approximately one week after application will assist in weed control.

SEQUENTIAL APPLICATIONS

A sequential application of *Stellar* Herbicide can be made after a minimum of 14 days have passed following the first application of *Stellar* Herbicide to control new flushes of susceptible weeds.

CROP FAILURE

If the crop treated with *Stellar* Herbicide is lost due to a catastrophe, such as hail or other forms of violent weather, refer to crop Rotational Restrictions below.

ROTATIONAL RESTRICTIONS

- Do not rotate to crops other than soybeans or field corn within 30 days after last *Stellar* Herbicide application.

RESISTANCE MANAGEMENT

For resistance management, *Stellar* Herbicide is a Group 14 herbicide. Any weed population may contain or develop plants naturally resistant to *Stellar* Herbicide 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 *Stellar* Herbicide 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.
- Fields should be scouted prior to application to identify the weed species present and their growth stage to determine if the intended application will be effective. Fields should be scouted after application to verify that the treatment was effective. 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 noncontrolled plants of a particular weed species; (3) surviving plants mixed with controlled individuals of the same species. If resistance is suspected, prevent weed seed production in the affected area by an alternative herbicide from a different group or by a mechanical method such as hoeing or tillage. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields, and planting clean seed.
- If a weed pest population continues to progress after treatment with this product discontinue use of this product, and switch to another management strategy or herbicide with a different mode of action, if available.
- Contact your local extension specialist or certified crop advisors for additional pesticide resistance-management recommendations for specific crops and weed biotypes.
- For further information or to report suspected resistance, contact Valent U.S.A. LLC at 800-6VALENT (682-5368)

RATES, WEED SIZES, AND ADJUVANTS FOR STELLAR APPLICATIONS

Stellar Herbicide rates, weed sizes and adjuvants are listed in Table 1

STELLAR HERBICIDE FOR POSTEMERGENCE CONTROL OF BROADLEAF WEEDS IN SOYBEANS

Table 1. *Stellar* Herbicide - Broadcast Application in Soybeans - Rates, Weed Sizes and Adjuvants

Weeds Controlled		Crop Oil Concentrate Rate	Application Rate		
Common Name	Scientific Name		5 fl oz/A ⁽¹⁾	7 fl oz/A ⁽²⁾	
			Leaf Stage		
Cocklebur, Common	<i>Xanthium strumarium</i>	1 to 2 pt/A	up to 2	up to 4	
Copperleafs					
Hophornbeam	<i>Acalypha ostryifolia</i>		-	up to 4	
Virginia	<i>Acalypha virginica</i>		-	up to 4	
Jimsonweed	<i>Datura stramonium</i>		-	up to 4	
Nightshade, Eastern Black	<i>Solanum ptycanthum</i>		up to 3	up to 4	
Pigweeds					
Palmer Amaranth	<i>Amaranthus palmeri</i>		up to 6	up to 6	
Redroot	<i>Amaranthus retroflexus</i>		up to 6	up to 6	
Smooth	<i>Amaranthus hybridus</i>		up to 3	up to 4	
Ragweeds					
Common	<i>Ambrosia artemisiifolia</i>		up to 4	up to 6	
Giant	<i>Ambrosia trifida</i>		up to 2	up to 4	
Velvetleaf ⁽³⁾	<i>Abutilon theophrasti</i>		up to 6	up to 6	
Waterhemp					
Common	<i>Amaranthus rudis</i>		up to 4	up to 6	
Tall	<i>Amaranthus tuberculatus</i>		up to 4	up to 6	
Weeds Suppressed					
Copperleafs					
Hophornbeam	<i>Acalypha ostryifolia</i>		up to 4	up to 6	
Virginia	<i>Acalypha virginica</i>	up to 4	up to 6		
Hemp Sesbania	<i>Sesbania exaltata</i>	up to 2	up to 2		
Lambsquarters, Common	<i>Chenopodium album</i>	up to 3	up to 3		
Morningglories, Annual	<i>Ipomoea</i> sp	up to 3	up to 3		
Prickly Sida	<i>Sida spinosa</i>	up to 3	up to 3		

Adjuvant: *Stellar* Herbicide must be applied with 1 to 2 pt/A of crop oil concentrate or methylated seed oil. Use 2 pt/A when weeds are at the maximum labeled height or the relative humidity at application is below 60%. To enhance weed control, 1 to 2 qt/A of a spray grade nitrogen based liquid fertilizer, such as, 28, 30, or 32% N or 2.0 to 2.5 lb ammonium sulfate/A may be added.

⁽¹⁾ Equivalent to approximately 0.027 lb/A flumiclorac pentyl ester and 0.094 lb/A lactofen.

⁽²⁾ Equivalent to approximately 0.038 lb/A flumiclorac pentyl ester and 0.131 lb/A lactofen.

⁽³⁾ The addition of a spray grade nitrogen fertilizer is recommended for velvetleaf control.

STELLAR HERBICIDE FOR SUPPRESSION OF WHITE MOLD IN SOYBEANS

Stellar Herbicide and *Stellar* Herbicide Tank mixes, when used as directed, can be used as part of an integrated program to suppress white mold in soybeans.

PRECAUTION: DO NOT APPLY STELLAR HERBICIDE AFTER WHITE MOLD INFECTION HAS OCCURRED.

Table 2. *Stellar* Herbicide - White Mold Suppression - Soybeans - Rates and Time of Application

Product	Product Rate	Diseases Suppressed	Crop Growth Stage
<i>Stellar</i> Herbicide	5 to 7 fl oz/A	White Mold ⁽¹⁾ (Sclerotinia stem rot)	Applications of <i>Stellar</i> Herbicide for white mold suppression in soybeans must be made at or just before 1 st bloom. Generally this occurs after the 4 th trifoliolate is fully expanded.
Adjuvant: Apply <i>Stellar</i> Herbicide with 0.25% v/v NIS or 0.5 to 1 pt/A crop oil concentrate or methylated seed oil.			

⁽¹⁾ The soybean disease white mold is caused by *Sclerotinia sclerotiorum*.

NOTE: The mechanism for white mold suppression using *Stellar* Herbicide is not fully understood at this time. It has been shown that this is not a fungicidal response but one that involves Systemic Acquired Resistance (SAR).

STELLAR HERBICIDE TANK MIX COMBINATIONS IN SOYBEANS APPLICATION INFORMATION FOR TANK MIXES IN SOYBEANS

Apply *Stellar* Herbicide at 5 to 7 fl oz/A to control the weeds listed in Table 1. To control additional weeds in soybeans, *Stellar* Herbicide may be tank mixed with approved herbicides. Approved tank mix herbicides, rates and adjuvants are indicated in Table 3. For best results, make *Stellar* Herbicide tank mix applications to actively growing weeds. Do not apply *Stellar* Herbicide tank mixes during periods when soybeans and/or weeds are under stress or when conditions do not favor active weed growth. For maximum control, weeds must receive thorough spray coverage.

Crop response from *Stellar* Herbicide tank mixes may be greater than that which occurs from *Stellar* Herbicide applied alone. Crop response from *Stellar* Herbicide is temporary and does not adversely affect crop yield when applied according to the label use directions.

Always read and follow label directions for all tank mix products before using. The most restrictive labeling of any tank mix product must be followed. *Stellar* Herbicide, when applied according to label use directions will control the weeds listed in Table 1. This label makes no claims concerning control of other weed species.

Table 3. Stellar Herbicide - Tank Mix Combinations in Soybeans

Tank Mix Partners For Specific Weeds Not Controlled By Stellar Herbicide	Tank Mix Partner Rate Per Acre	Adjuvant
BASAGRAN® (4 L) Common Cocklebur > 4 leaf Pennsylvania Smartweed Yellow Nutsedge ⁽¹⁾	1 to 1.5 pt/A	COC at 1 pt/A
CLASSIC® (25 WD) Common Cocklebur > 4 leaf Common Sunflower	3/8 to 2/3 oz/A	COC at 1 to 2 pt/A
COBRA® (2 EC) Common Ragweed > 6 leaf Pigweeds > 4 leaf Waterhemp > 4 leaf	2 to 6 fl oz/A ⁽²⁾	COC at 1 pt/A
CONCLUDE® B + CONCLUDE G or CONCLUDE XTRA B + CONCLUDE XTRA G Common Cocklebur > 4 leaf Pennsylvania Smartweed Annual Grasses	1.5 + 1.5 pt/A or 24 + 17 fl oz/A	COC at 1 pt/A
FIRSTRATE® (84 WD) Common Ragweed > 6 leaf Giant Ragweed > 4 leaf Common Sunflower	REFER TO FIRSTRATE (84 WD) LABEL	REFER TO FIRSTRATE (84 WD) LABEL
FLEXSTAR® (2 HL) Annual Morningglories	REFER TO FLEXSTAR (2 HL) LABEL	REFER TO FLEXSTAR (2 HL) LABEL
GLYPHOSATE ^{(3), (4)} Annual Grasses Large Seeded Broadleaves	0.5 to 1.5 lb ai/A	Refer to glyphosate label
LIBERTY® (1.67 L) ⁽⁵⁾ Annual Grasses Common Lambsquarters Pennsylvania Smartweed	1 to 1.75 pt/A	COC at 1 pt/A
MANIFEST® B + MANIFEST G Common Cocklebur > 4 leaf Pennsylvania Smartweed Annual Grasses	2.0 + 1.5 pt/A	COC at 1 pt/A
HARMONY® GT (75 DW) Common Lambsquarters Pennsylvania Smartweed	1/12 oz/A	NIS at .25% V/V
HARMONY® GT (75 DW) ⁽⁶⁾ Common Lambsquarters < 2 in.	1/24 oz/A	COC at 1 pt/A
PURSUIT® (70 DG) Common Cocklebur > 4 leaf Pennsylvania Smartweed	1.44 oz/A	COC at 1 to 2 pt/A plus either AMS at 2.5 lb/A or spray grade nitrogen solution at 1 to 2 qt/A
RAPTOR® (1 AS) Kochia Pennsylvania Smartweed	4 to 5 fl oz/A	COC at 1 to 2 pt/A plus either AMS at 2.5 lb/A or spray grade nitrogen solution at 1 to 2 qt/A
RELIANCE® STSJ ⁽⁶⁾ Common Lambsquarters Pennsylvania Smartweed	0.5 oz/A	COC at 1 to 2 pt/A
REZULT B® + REZULT G® Common Cocklebur > 4 leaf	1.6 + 1.6 pt/A	COC at 1 pt/A plus either AMS at 2.5 lb/A or spray grade nitrogen solution at 1 to 2 qt/A

Table 3. *Stellar* Herbicide - Tank Mix Combinations in Soybeans

Tank Mix Partners For Specific Weeds Not Controlled By <i>Stellar</i> Herbicide	Tank Mix Partner Rate Per Acre	Adjuvant
Pennsylvania Smartweed Yellow Nutsedge ⁽¹⁾		
ROUNDUP ULTRA [®] MAX (5 SC) ⁽⁴⁾ Annual Grasses Large Seeded Broadleaves	13.3 to 40 fl oz/A	None
ROUNDUP [®] (4 SC) ⁽⁴⁾ Annual Grasses Large Seeded Broadleaves	1 to 3 pt/A	COC at 1 to 2 pt/A
SCEPTER [®] (70 DG) Common Cocklebur > 4 leaf	1.4 to 2.8 oz/A	COC at 1 pt/A
SELECT [®] 2 EC ⁽⁷⁾ Annual Grasses	6 to 10 fl. oz/A	COC at 1 to 2 pt/A
STORM [®] (4 L) Common Cocklebur > 4 leaf Pennsylvania Smartweed	1 to 1.5 pt/A	COC at 1 pt/A
SYNCHRONY [®] STS [™] DF or SP ⁽⁸⁾ Common Lambsquarters Pennsylvania Smartweed	0.5 oz/A	COC at 1 to 2 pt/A

Use 1.5 pt/A of BASAGRAN for control of yellow nutsedge.

- ⁽¹⁾ Use a maximum of 6 fl oz/A of COBRA with 5 fl oz/A of *Stellar* Herbicide. Use a maximum of 4 fl oz/A of COBRA with 7 fl oz/A of *Stellar* Herbicide.
- ⁽²⁾ Glyphosate containing products, that are labeled for postemergence broadcast application in soybeans, may be tank mixed with *Stellar* Herbicide.
- ⁽³⁾ Use only on varieties legally designated as "ROUNDUP READY[®]". ⁽⁵⁾ Use only on varieties legally designated as "LIBERTY LINK[®]".
- ⁽⁶⁾ HARMONY GT, at 1/24 oz/A, may be tank mixed with Firstrate plus *Stellar* Herbicide.
- ⁽⁷⁾ Other postemergence grass herbicides, such as ASSURE[®] II, FUSION[®], FUSILADE[®] DX, POAST[®], and POAST PLUS[®], may be tank mixed with *Stellar* Herbicide for annual grass control. Refer to respective labels for rates and annual grasses controlled. For control of perennial grasses, such as rhizome Johnsongrass or quackgrass, apply the postemergence grass herbicide as a sequential application at least 1 day before or 7 days after *Stellar* Herbicide application.
- ⁽⁸⁾ Use only on varieties legally designated as "STS".

STORAGE AND DISPOSAL

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

STORAGE

Store in a cool dry place.

Keep pesticide in original container.

Keep container closed when not in use.

Do not put concentrate or dilute into food or drink containers.

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 1-800-892-0099.

PESTICIDE DISPOSAL

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL

Nonrefillable container. Do not reuse or refill this container. 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, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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

IMPORTANT: Read the entire Label including this section titled Risks of Using this Product, Limited Warranty and Disclaimer, and Limitation of Liability before using this product. If the terms are not 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. Such risks of crop injury, nonperformance, 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. 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.

The Directions for Use of this product must be followed carefully. 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 damages that may be claimed) resulting from use of this product in any manner not set forth on the label. To the extent consistent with applicable law, 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 AND DISCLAIMER

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, 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.

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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 later, 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 **Risks of Using This Product, Limited Warranty and Disclaimer, 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.

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- Reg. TM of BASF AG

CLASSIC® - Reg. TM of E. I. duPont de Nemours & Co., Inc.

COBRA® - Reg. TM of Valent USA Corp.

CONCLUDE® - reg. TM of BASF Corp.

FIRSTRATE® - Reg. TM of Dow AgroSciences LLC

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SELECT® - Reg. TM of Valent USA Corp.

STELLAR® - Reg. TM of Valent USA Corp.

STORM® - Reg. TM of BASF Corp.

SYNCHRONY® and STSJ - Reg. TM and TM of E. I. duPont de Nemours & Co., Inc.

Manufactured for:

Valent U.S.A. LLC

P.O. Box 5075

San Ramon CA 94583

Made in U.S.A.

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