

Specimen Label



Dow AgroSciences



HERBICIDE

®™ Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow

A Multi-Pack Product for Preemergent Control of Certain Weeds in Soybeans Containing Surveil™ V and Surveil™ FR

Keep Out of Reach of Children

CAUTION

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. Refer to the label booklet under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

Directions for Use: Refer to inside of label booklet for use directions and additional information.

Notice: Read the entire label. Use only according to label directions. Before using this product, read Disclaimer, Risks of Using This Product, Limited Warranty and Limitation of Liability at end of label booklet. If terms are unacceptable, return at once unopened.

In case of emergency endangering health or the environment involving this product, call 1-800-892-0099.

Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.

Surveil Co-Pack
EPA Reg. No. 59639-131-62719

Surveil™ V

HERBICIDE

Active Ingredient:

*Flumioxazin.....	51%
Other Ingredients	49%
Total	100%

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

Keep Out of Reach of Children

CAUTION

Precautionary Statements

Hazards to Humans and Domestic Animals

EPA Reg. No. 59639-131-62719

Harmful If Inhaled or Absorbed Through Skin • Causes 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. If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves such as butyl rubber (≥14 mils), or natural rubber (≥14 mils), or neoprene rubber (≥14 mils) or nitrile rubber (≥14 mils)
- Shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, 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.

First Aid

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 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 eye. 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 do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-892-0099 for emergency medical treatment information.

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.

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. Refer to the label booklet under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

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 1-800-892-0099.

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: When Surveil V nonrefillable container is empty: Do not reuse or refill this container. Clean 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.

Surveil™ FR

HERBICIDE

Active Ingredient:

**Cloransulam-methyl	84%
Other Ingredients.....	16%
Total	100%

**N-(2-carbomethoxy-6-chlorophenyl)-5-ethoxy-7-fluoro(1,2,4)triazolo-[1,5-c]pyrimidine-2-sulfonamide

Keep Out of Reach of Children

CAUTION

Precautionary Statements

Hazards to Humans and Domestic Animals

EPA Reg. No. 59639-131-62719

Causes Eye Irritation • Harmful If Absorbed Through Skin

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. If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves such as butyl rubber (≥14 mils), or natural rubber (≥14 mils), or neoprene rubber (≥14 mils) or nitrile rubber (≥14 mils)
- Shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, 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.

First Aid

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 eye. Call a poison control center or doctor for 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.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-892-0099 for emergency medical treatment information.

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.

Cloransulam-methyl and its transformation products demonstrate the properties and characteristics associated with chemicals detected in ground water. The use of this chemical is areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

Cloransulam-methyl can contaminate surface water through spray drift.

Under some conditions, cloransulam-methyl, and/or its transformation products, may have a high potential for runoff into surface water (primarily via dissolution in runoff water), for several weeks post-application. vulnerable conditions include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas over-laying extremely shallow ground water, areas with infield canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips and areas over-laying tile drainage systems that drain to surface water.

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to the label booklet under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

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 1-800-892-0099.

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: When all Surveil FR packets are used: Nonrefillable outer bag. Completely empty bag into application equipment. Do not reuse or refill outer bag. Then dispose of the empty outer bag in a sanitary landfill, or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Surveil™ Co-Pack

A Multi-Pack Product for Preemergent Control of Certain Weeds in Soybeans Containing Surveil™ V and Surveil™ FR

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 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, such as plants, soil, or water, is: coveralls, chemical resistant gloves, shoes plus socks.

Product Information

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

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 application decisions. Where states have more stringent regulations, they should be observed. Surveil Co-Pack provides residual control of susceptible weeds in soybeans.

Surveil Co-Pack can also be used as part of a burndown program in soybeans.

Use Precautions and Restrictions

- Do not apply this product when weather conditions favor spray drift from treated areas.
- Do not graze treated fields or feed treated forage or hay to livestock.
- When applying by air, observe drift management restrictions and precautions listed under "Aerial Application".
- Do not apply Surveil Co-Pack by air in the state of New York.

Environmental Conditions and Biological Performance Preemergence Applications (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 Surveil Co-Pack in soil for residual weed control. Dry weather following applications of Surveil Co-Pack may reduce effectiveness. However, when adequate moisture is received after dry conditions, Surveil Co-Pack will control susceptible germinating weeds. Surveil Co-Pack 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 Surveil Co-Pack application, weed control may be improved by irrigation with at least 1/2 inch of water within 7 days of application. If emerged weeds are controlled by cultivation, residual weed control will be reduced.

Burndown Applications

For best results, Surveil Co-Pack should be applied as part of a burndown program to actively growing weeds. Applying Surveil Co-Pack under conditions that do not promote active weed growth will reduce herbicide effectiveness. Do not apply Surveil Co-Pack 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. Surveil Co-Pack 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.

Rainfastness

Surveil Co-Pack is rainfast two hours after application. Applications should not be made if rain is expected within two hours of application or efficacy may be reduced.

Soil Characteristics

Application of Surveil Co-Pack 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 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 Surveil Co-pack dosage from Table 2. Table 3 lists weeds that are suppressed by Surveil Co-Pack.

Carrier Volume and Spray Pressure (Ground Equipment only. See Information for Aerial Equipment under "Aerial Application".)

Preemergence Applications (Conventional Tillage)

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

Burndown Applications (Prior to Crop Emergence)

To ensure thorough coverage in burndown applications, use 15 to 30 gals spray solution per acre. Use 20 to 30 gals per acre if dense vegetation or heavy crop residue is present. Nozzle selection should meet manufacturer's gallonage and pressure recommendations for postemergence herbicide application.

Additives

Burndown Applications (Prior to Crop Emergence)

Postemergence control of weeds from Surveil Co-Pack 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, or a non-ionic surfactant at 0.25% v/v, may be used when applying Surveil Co-Pack as part of a burndown program. Some tank mix partners, such as Glyphomax™ Plus are formulated with sufficient adjuvants and do not require the addition of a crop oil concentrate, methylated seed oil, or a non-ionic surfactant at 0.25% v/v, when tank mixed with Surveil Co-Pack. An exception to this may be when tank mix products are applied at spray volumes in excess of 20 gals. per acre. Always check tank mix product label or manufacturer representative for adjuvant recommendations under elevated spray volume applications as additional adjuvants may be suggested. The addition of a crop oil concentrate, methylated seed oil or a non-ionic surfactant at 0.25% v/v may increase the burndown activity on certain weeds such as cutleaf evening primrose and Carolina geranium. Mixing compatibility qualities should be verified by a jar test.

A spray grade nitrogen source (either ammonium sulfate at 2.0 to 2.5 lbs./A or a 28 to 32% nitrogen solution at 1 to 2 qts./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 or a methylated seed oil.

Jar Test To Determine Compatibility of Adjuvants and Surveil Co-Pack

1. When using Surveil Co-Pack and an adjuvant, such as in stale seed bed or reduced tillage situations, a jar test should be performed before mixing commercial quantities of Surveil Co-Pack, when using Surveil Co-Pack for the first time, when using new adjuvants or when a new water source is being used.
2. Add 1 pt of the water to a quart jar. The water should be from the same source and temperature as which will be used in the spray tank mixing operation.
3. Add 1 g of Surveil V to the quart jar for every 3 oz of Surveil V/A being applied (1 g if 3 oz/A is the desired Surveil V rate). Gently mix until product goes into suspension.
4. Add 0.2 g of Surveil FR to the quart jar for every 0.6 oz of Surveil FR/A being applied (0.2 g if 0.6 oz/A is the desired Surveil FR rate). Gently mix until product goes into suspension.
5. Add 60 ml (4 Tbsp or 2 fl oz) of the crop oil of methylated seed oil or 1 ml of a non-ionic surfactant if it is being used in place of oil to the quart jar, gently mix.
6. 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.
7. Place cap on jar, invert 10 times, let stand for 15 minutes, evaluate.
8. An ideal tank mix combination will be uniform and free of suspended particles. If any of the following conditions are observed the choice of adjuvant should be questioned:
 - o Layer of oil or globules on the mixture's surface.
 - o Flocculation: fine particles in suspension or as a layer on the bottom of the jar.
 - o Clabbering: Thickening texture (coagulated) like gelatin.

Sprayer Preparation

Before applying Surveil Co-Pack, 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 sulfonyleurea and phenoxy herbicides, (i.e. Classic® and 2,4-D respectively) are active at very small amounts and can cause crop injury when applied to susceptible 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 Surveil Co-Pack. If two or more products were tank mixed prior to Surveil Co-Pack application, the most restrictive cleanup procedure should be followed.

Mixing Instructions

Water Soluble Packaging

Surveil FR is packaged in water soluble packets. Do not handle the packets with wet gloves or allow the packets to become wet prior to mixing. If all packets are not used, close and reseal outer container to protect remaining packet(s). Do not add any liquid fertilizers, micronutrients or adjuvants to the spray solution until after the water soluble packets and their contents have completely dissolved. Watersoluble packet(s) should completely dissolve in approximately five minutes. Dissolution rate may be slowed by cold water, lack of agitation, or water containing high concentrations of boron or sulfur. High concentration of boron or sulfur may result in spray screen or nozzle clogging due to the incomplete dissolution of the water-soluble packet material.

1. Fill clean spray tank 1/2 to 2/3 of desired level with clean water.
2. While agitating, add the correct number of Surveil FR water soluble packets and make sure that they have dissolved completely before proceeding. Agitation should create a rippling or rolling action on the water surface.
3. While agitation continues, add the correct amount of Surveil V.
4. If tank mixing Surveil Co-Pack with other labeled herbicides, 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.
5. Add any required adjuvants.
6. Fill spray tank to desired level with water. **Agitation should continue until all spray solution has been applied.**
7. Mix only the amount of spray solution that can be applied the day of mixing. Surveil Co-Pack should be applied within 6 hours of mixing.

The following load chart can be used to determine the amount of Surveil V and Surveil FR to add to the spray tank based on load size and Surveil Co-Pack application rate.

Surveil Co-Pack Load Chart

Acres	Surveil Co-Pack Rate							
	1.8 oz		2.4 oz		3.0 oz		3.6 oz	
	Surveil FR	Surveil V	Surveil FR	Surveil V	Surveil FR	Surveil V	Surveil FR	Surveil V
2	1 WSP	3 oz	-	-	-	-	2 WSP	6 oz
10	5 WSP	15 oz	7 WSP	20 oz	8 WSP	25 oz	10 WSP	30 oz
20	10 WSP	30 oz	13 WSP	40 oz	17 WSP	50 oz	20 WSP	60 oz
40	20 WSP	60 oz	27 WSP	80 oz	33 WSP	100 oz	40 WSP	120 oz
80	40 WSP	120 oz	53 WSP	160 oz	67 WSP	200 oz	80 WSP	240 oz
160	80 WSP	240 oz	107 WSP	320 oz	133 WSP	400 oz	160 WSP	480

- 1 outer bag of Surveil FR contains 27 Surveil FR water soluble packets (WSP).
- 1.8 oz of Surveil Co-Pack = 0.3 oz of Surveil FR + 1.5 oz of Surveil V
- 2.4 oz of Surveil Co-Pack = 0.4 oz of Surveil FR + 2.0 oz of Surveil V
- 3.0 oz of Surveil Co-Pack = 0.5 oz of Surveil FR + 2.5 oz of Surveil V
- 3.6 oz of Surveil Co-Pack = 0.6 oz of Surveil FR + 3.0 oz of Surveil V

Sprayer Cleanup

Spray equipment must be cleaned each day following Surveil Co-Pack application. After Surveil Co-Pack 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 for every 100 gals. of water, circulate through sprayer for 5 minutes, and then flush all hoses, booms, screens and nozzles for a minimum of 15 minutes. If anti drip diaphragms are being used, loosen them prior to flushing the system, allowing cleaning solution to spray through the open diaphragm. To enhance removal of Surveil Co-Pack from the spray system, add a tank cleaner such as "Valent Tank Cleaner" from Valent U.S.A. Corporation, in place of ammonia and allow the cleaning solution to remain in the 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.

Spray equipment, including all tanks, hoses, booms, screens and nozzles, should be thoroughly cleaned before it is used to apply postemergence pesticides. Equipment with Surveil Co-Pack residue remaining in the system may result in crop injury to the subsequently treated crop.

Application Equipment

Application equipment should be clean and in good repair. Nozzles should be uniformly spaced on boom and frequently checked for accuracy.

Broadcast Application

Apply Surveil Co-Pack and Surveil Co-Pack tank mixes with ground equipment 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 Surveil Co-Pack per acre.

Aerial Application

[Do not apply Surveil Co-Pack by air in the state New York.]

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:

- Do not apply during low-level inversion conditions, 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 Surveil Co-Pack in 7 to 10 gals of water per acre. Application at less than 7 gals per acre may provide inadequate control. When used for preemergence weed control, apply Surveil Co-Pack in 5 to 10 gals per acre of water. The higher gallonage applications generally afford more

consistent weed control. Do not exceed the nozzle manufacturer's recommended 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, which produce flat or hollow cone spray patterns. Use non-drip type nozzles, such as 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 recommendation. 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.

Crop Failure

If the crop treated with Surveil Co-Pack is lost due to a catastrophe, such as hail or other forms of inclement weather, soybeans can be replanted immediately. Crop injury may occur if these restrictions are not followed.

Rotational Restrictions

The following rotational crops may be planted after applying Surveil Co-Pack at the listed rate. Planting earlier than the recommended rotational interval may result in crop injury.

Crops	Rotational Interval (Months) ^{1,2}
Soybean	Immediately
Wheat	3
Field Corn, Popcorn, Seed Corn ³ , Cotton, Peanuts, Rice, Sorghum, Dry Beans, Lima Beans, Oats, Peas, Snap Beans	9
Potatoes, Sweet corn	18
Sugar Beets, Sunflowers, Tobacco ⁴	30

¹Hybrid Seed Production: Corn inbred lines grown for hybrid seed production may be injured the growing season following an application of Surveil Co-Pack. Inbred lines should be thoroughly tested for crop tolerance before rotating to large acreage. While growers are not prohibited from rotating to seed corn in the growing season following an application of Surveil Co-Pack, **Dow AgroSciences will not accept responsibility for any crop injury on field corn grown for seed following an application of Surveil Co-Pack.**

²Transplanted tobacco may be planted 10 months after application of 0.3 oz/A of Surveil FR. Tobacco in seedbed nurseries may be planted 18 months after application of 0.3 oz of Surveil FR and following a successful field bioassay. A rotational interval of 30 months and a successful field bioassay is required for all Surveil FR applications greater than 0.3 oz/A.

³At least one inch of rainfall/irrigation must occur between application and planting or crop injury may occur.

⁴Successful soil bioassay must be performed prior to planting alfalfa, canola, sugar beets and other crops not listed.

Field Bioassay Instructions: Using typical tillage, seeding practices, and timings for the particular crop, plant several strips of the desired crop variety across the field previously treated with Surveil Co-Pack. Plant the strips perpendicular to the direction Surveil Co-Pack was applied. The strips should be located so that different field conditions are encountered, including differences in soil texture, pH, and drainage. If the crop does not show visible symptoms of injury, stand reduction, or yield reduction, the field can be seeded with the test crop. If visible injury or stand reduction occurs, the test crop should not be seeded, and the bioassay must be repeated the next growing season.

Resistance Management

Any weed population may contain or develop plants naturally resistant to herbicides in various mode of action classes. Resistant biotypes may eventually dominate the weed population if the same class of chemistry/ mode of action herbicides are used repeatedly in the same field or in successive years. These resistant biotypes may not be adequately controlled by herbicides in a mode of action class for which resistance has developed. A gradual or total loss of weed control may occur over time. Other resistance mechanisms that are not linked to site of action, such as enhanced metabolism, may also exist. Appropriate resistance management strategies should be followed.

To Delay Herbicide Resistance

- Avoid the use of herbicides that have a similar target site mode of action in consecutive years.
- Herbicide use should be based on an IPM program that includes scouting, record keeping, and consideration of cultivation practices, water management, weed free crop seed, crop rotation, and other chemical or cultural control practices.
- Monitor treated weed population for resistance development and report suspected resistance.

- Contact your local extension or crop expert (advisor) for any additional pesticide resistance management and/or IPM recommendations for specific crops and weed biotypes.
- For further information contact Dow AgroSciences at the following toll free number 1-800-258-3033.

Directions For Use In Fall and Spring Preplant Burndown Programs in Soybeans (Preemergence to Crop)

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.

Fall Burndown Programs

Surveil Co-Pack can be used in combination with labeled preplant burndown herbicides to control emerged weeds and provide residual weed control in fields that will be planted the following spring. Application must be made no earlier than October 15 in Region 2 or November 15 in Region 1 or when soil temperature falls below 50°F at a 2 inch depth to maintain residual weed control into the spring (April 1 in Region 1 and May 1 in Region 2) or up until planting, whichever comes first.

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

Fall Application Regions:

Region 1: Arkansas, Kentucky and Tennessee

Region 2: Colorado, Connecticut, Delaware, Kansas, Illinois, Indiana, Iowa, Maryland, Massachusetts, Michigan, Minnesota, Missouri, Montana, Nebraska, New Hampshire, New Jersey, New York, North Dakota, Ohio, Pennsylvania, South Dakota, West Virginia, and Wisconsin

Weeds controlled by postemergence or residual activity, are listed in Table 1. Preplant burndown treatment tank-mixes and rates are:

Herbicide	Rate
Program 1	
Surveil Co-Pack Plus	3.0 to 3.6 oz/A (equivalent to 2.5 oz/A of Surveil V plus 0.5 oz/A of Surveil FR to 3.0 oz/A of Surveil V plus 0.6 oz/A of Surveil FR)
Glyphosate Plus	0.5 to 1.0 lb ai/A (equivalent to 1 to 2 pt/A of Glyphomax™ Plus)
2,4-D LVE (2,4-D for use on preplant soybeans only) plus	0.5 to 1.0 lb ai/A (equivalent to 1 to 2 pt/A of 2,4-D 4 LVE)
NIS + AMS	0.5% v/v + 17 lb/100 gals of water
Or	
Program 2	
Surveil Co-Pack Plus	3.0 to 3.6 oz/A (equivalent to 2.5 oz/A of Surveil V plus 0.5 oz/A of Surveil FR to 3.0 oz/A of Surveil V plus 0.6 oz/A of Surveil FR)
Glyphosate Plus	0.5 to 1.0 lb ai/A (equivalent to 1 to 2 pt/A of Glyphomax Plus)
COC ¹ or NIS + AMS	1 pt/A or 0.5% v/v + 17 lb/100 gals of water
Or	
Program 3	
Surveil Co-Pack Plus	3.0 to 3.6 oz/A (equivalent to 2.5 oz/A of Surveil V plus 0.5 oz/A of Surveil FR to 3.0 oz/A of Surveil V plus 0.6 oz/A of Surveil FR).
2,4-D LVE (2,4-D for use on preplant soybeans only) Plus	0.5 to 1.0 lb ai/A (equivalent to 1 to 2 pt/A of 2,4-D 4 LVE)
COC	1 pt/A

¹Crop oil concentrate has been found to increase glyphosate burndown on emerged cutleaf eveningprimrose or Carolina geranium.

Table 1. Weeds Controlled by Fall and Spring Preplant Burndown Programs

Weeds Controlled ¹		Postemergence			Residual
Common Name	Scientific Name	Program 1	Program 2	Program 3	
		Weeds 3 inches or less			
Chickweed					
Common	<i>Stellaria media</i>	Yes	Yes	No	Yes
Mouseear	<i>Cerastium vulgatum</i>	Yes	Yes	No	Yes
Dandelion	<i>Taraxacum officinale</i>	Yes	No	Yes ²	Yes
Henbit	<i>Lamium amplexicaule</i>	Yes	Yes	Yes	Yes
Marestail/Horseweed	<i>Conyza Canadensis</i>	Yes	Yes	Yes	Yes
Groundsel, Cressleaf	<i>Senecio glabellus</i>	Yes	Yes	-	Yes
Purple Deadnettle	<i>Lamium purpureum</i>	Yes	Yes	Yes	Yes
Weeds 12 inches or less					
Carolina Geranium	<i>Geranium carolinianum</i>	Yes	Yes	Yes	-
Eveningprimrose, Cutleaf ³	<i>Oenothera laciniata</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

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

²1 lb. ai/A of 2,4-D LVE (equivalent to 2 pt./A of 2,4-D 4 LVE) should be used for control of emerged dandelion.

³Program 1 should be used to control eveningprimrose that are nearing 12 inches in height or are past the rosette stage. Programs 2 or 3 should be used to control eveningprimrose that are 12 inches or less and in the rosette stage.

Spring Burndown Programs

Surveil Co-Pack can be used in combination with labeled preplant burndown herbicides to control emerged weeds and provide residual weed control prior to crop emergence. Weeds controlled by residual activity are listed in Table 2, Section A and Section B.

No-till planters that incorporate the soil during planting may result in decreased weed control in the row. Apply Surveil Co-Pack after planting when these types of planters are used (within 3 days of planting and before the crop emerges).

Recommendations for Weed Control In Soybeans

Table 2 lists broadleaf weeds controlled by residual activity of Surveil Co-Pack in soybeans.

Table 3 list weeds suppressed by residual activity of Surveil Co-Pack in soybeans.

Table 2. Broadleaf Weeds Controlled by Residual Activity of Surveil Co-Pack

Broadleaf Weed Species				
Section A				
Common Name	Scientific Name	Organic Matter	Soil Type	Surveil Co-Pack Rate
Carpetweed	<i>Mollugo verticillata</i>	Up to 5%	All Soil Types	3.0 oz/A (equivalent to 2.5 oz/A of Surveil V Plus 0.5 oz/A of Surveil FR)
Chickweeds				
Common	<i>Stellaria media</i>			
Mouseear	<i>Cerastium vulgatum</i>			
Dandelion	<i>Taraxacum officinale</i>			
Eclipta	<i>Eclipta prostrata</i>			
Eveningprimrose, Cutleaf	<i>Oenothera laciniata</i>			
Florida Pusley	<i>Richardia scabra</i>			
Hemp Sesbania	<i>Sesbania exaltata</i>			
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>			
Marestail/Horseweed	<i>Conyza canadensis</i>			
Morningglories				
Entireleaf	<i>Ipomoea hederacea</i> var. <i>integriuscula</i>			
Ivyleaf	<i>Ipomoea hederacea</i>			
Pitted	<i>Ipomoea lacunosa</i>			
Red/Scarlet	<i>Ipomoea coccinea</i>			
Tall	<i>Ipomoea purpurea</i>			
Mustard, Wild	<i>Brassica kaber</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>			
Palmer Amaranth	<i>Amaranthus palmeri</i>			
Prickly Sida (Teaweed)	<i>Sida spinosa</i>			
Puncturevine	<i>Tribulus terrestris</i>			
Purslane, Common	<i>Portulaca oleracea</i>			
Ragweeds, Common ²	<i>Ambrosia artemisiifoli</i>			
Redmaids	<i>Calandrinia ciliata</i> var. <i>menziessi</i> .			

Table 2. Broadleaf Weeds Controlled by Residual Activity of Surveil Co-Pack (Cont.)

Broadleaf Weed Species				
Section A				
Common Name	Scientific Name	Organic Matter	Soil Type	Surveil Co-Pack Rate
Shepherd's-purse	<i>Capsella bursa-pastoris</i>	Up to 5%	All Soil Types	3.0 oz/A (equivalent to 2.5 oz/A of Surveil V Plus 0.5 oz/A of Surveil FR)
Smallflower Morningglory	<i>Jacquemontia tamnifolia</i>			
Smartweeds	<i>Polygonum persicaria</i>			
Ladysthumb	<i>Polygonum pennsylvanicum</i>			
Pennsylvania Spurge, Spotted	<i>Euphorbia maculata</i>			
Velvetleaf	<i>Abutilon theophrasti</i>			
Venice Mallow	<i>Hibiscus trionum</i>			
Waterhemp ¹	<i>Amaranthus rudis</i>			
Common Tall	<i>Amaranthus tuberculatus</i>			

Section B				
All weeds listed in Section A plus:				
Common Name	Scientific Name	Organic Matter	Soil Type	Surveil Co-Pack Rate
Bristly Starbur	<i>Acanthospermum hispidum</i>	Up to 5%	All Soil Types	3.6 oz/A (equivalent to 3.0 oz/A of Surveil V Plus 0.6 oz/A of Surveil FR)
Cocklebur, Common	<i>Xanthium strumarium</i>			
Coffee Senna	<i>Cassia occidentalis</i>			
Copperleaf				
Hophornbeam	<i>Acalypha ostryifolia</i>			
Virginia	<i>Acalypha virginica</i>			
Golden Crownbeard	<i>Verbesina encelioides</i>			
Florida Beggarweed	<i>Desmodium tortuosum</i>			
Hairy Indigo	<i>Indigofera hirsuta</i>			
Ragweed, Giant ²	<i>Ambrosia trifida</i>			
Russian Thistle	<i>Salsolia iberica</i>			
Spurred Anoda	<i>Anoda cristata</i>			
Tropic Croton	<i>Croton glandulosus</i>			
Wild Poinsettia	<i>Euphorbia heterophylla</i>			

¹A postemergence herbicide, such as Cobra®, Phoenix™, or glyphosate (Roundup Ready soybeans only) may be needed following a preemergence application of Surveil Co-Pack to adequately control waterhemp in soybean fields with heavy pressure.

²Does not include ALS resistant ragweeds.

Table 3. Weeds Suppressed by Residual Activity of Surveil Co-Pack in Soybeans

Grass Weed Species		Organic Matter	Ounces per Acre
Common Name	Scientific Name		
Barnyardgrass	<i>Echinochloa crusgalli</i>	All Soil Types	3.0 to 3.6 oz/A (equivalent to 2.5 oz/A of Surveil V Plus 0.5 oz/A of Surveil FR to 3.0 oz/A of Surveil V Plus 0.6 oz./A of Surveil FR)
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>		
Signalgrass, Broadleaf	<i>Brachiaria platyphylla</i>		

Directions For Use In Soybeans

Restrictions and Limitations

- Do not apply more than 3 oz. of Surveil V or 0.6 of Surveil FR per acre during a single growing season.
- Do not tank-mix Surveil Co-Pack with acetochlor (Warrant™), alachlor (Micro-Tech®), flufenacet (Axiom®, Domain®), metolachlor (Boundary®, Dual® Magnum, Dual® II Magnum) or dimethenamid (Frontier® or Outlook®) within 14 days of planting soybeans, unless soybeans are planted under no-till or minimum tillage conditions on wheat stubble or no-till field corn stubble.
- Do not irrigate when soybeans are cracking.

Timing To Soybeans

Surveil Co-Pack may be applied to soybeans prior to planting or preemergence (after planting). Preemergence application of Surveil Co-Pack must be made within 3 days after planting and prior to soybean emergence. Application after the soybeans have begun to crack, or are emerged, will result in severe crop injury. Application should not be made when soybeans have begun to crack. Select Surveil Co-Pack rate from Table 2 according to anticipated weed spectrum.

Timing To Weeds

Burndown – Preemergence to Soybeans, Postemergence to Weeds
 Surveil Co-Pack, applied as part of a burndown program, may be used for residual weed control, as well as to assist in postemergence burndown of many annual and perennial weeds where soybeans will be planted directly into a stale seedbed, cover crop or in previous crop residues. For control of emerged weeds, choose the most appropriate tank mix partner from

Table 4. Apply Surveil Co-Pack with ground equipment before planting, during planting or within 3 days after planting, **but before the crop emerges**. To ensure thorough coverage, use a minimum of 15 gals of spray solution per acre. Refer to tank mix partner's label for application pressure. All Surveil Co-Pack tank mixes applied to assist in the control of emerged weeds must be applied with crop oil concentrate or methylated seed oil at 1 to 2 pt/A.

Tank Mixes

Surveil Co-Pack may be tank mixed with the herbicides listed in Table 4 for increased burndown activity, additional residual broadleaf, and/or additional grass control. Refer to tank mix partner's label for adjuvant recommendations.

Table 4. Tank Mix Partners for Control of Emerged Weeds in Reduced Tillage Soybeans

Tank Mix Partner	Target Weeds ¹
Gramoxone® Extra	<ul style="list-style-type: none"> • Annual Grasses • Henbit
Glyphosate	<ul style="list-style-type: none"> • General Burndown
Select® 2 Ec	<ul style="list-style-type: none"> • Annual Grasses
2,4-D LVE	<ul style="list-style-type: none"> • Marestail • Giant Ragweed • Dandelion

¹Refer to tank mix product labels for specific recommendations for control of emerged weeds present.

Additional Residual Broadleaf Control

Surveil Co-Pack can be tank mixed with metribuzin or Lorox® for additional broadleaf control.

Additional Residual Grass Control

Surveil Co-Pack can be tank mixed with pendimethalin or Command® for additional grass control. Tank mixes with flufenacet (Axiom or Domain), metolachlor (Boundary, Dual Magnum, Dual II Magnum), dimethenamid (Frontier or Outlook) or alachlor (Micro-Tech), may result in severe injury to soybeans when application is followed by prolonged periods of cool wet weather and should not be used with Surveil Co-Pack, unless supplemental labeling, provided by Dow AgroSciences, is followed.

Roundup Ready Program

Surveil Co-Pack may be applied as part of a burndown program or preemergence in conventional tillage programs, at 1.5 oz./A of Surveil V plus 0.3 oz./A of Surveil FR to reduce early season weed competition from waterhemp, velvetleaf, nightshade, and morningglories as well as other weeds listed in Tables 2 and 3 in Roundup Ready programs. A sequential post emergence application of glyphosate will be required to control weeds not controlled by Surveil Co-Pack.

Read tank mix product label for rates and weeds controlled. 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. Surveil Co-Pack, when applied according to label use directions, will control the weeds listed in Table 2. This label makes no claims concerning control of other weed species.

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 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 Dow AgroSciences. 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.

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Limited Warranty

Dow AgroSciences 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, Dow AgroSciences MAKES NO OTHER WARRANTIES, EITHER EXPRESSED OR IMPLIED. No agent or representative of Dow AgroSciences or Seller is authorized to make or create any other express or implied warranty.

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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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