



OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

WASHINGTON, D.C. 20460

August 21, 2024

Arianna Shorey
Regulatory Consultant
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c/o Pyxis Regulatory Consulting Inc.
4110 136th St. Ct. NW
Gig Harbor, WA 98332

Subject: Label Amendment - Registration Review Mitigation for Thidiazuron
Product Name: TAKEDOWN SC COTTON DEFOLIANT
EPA Registration Number: 34704-871
Application Date: September 9, 2022
Decision Number: 587416

Dear Arianna Shorey:

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 Thidiazuron 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 Assurance.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling and must be used at your next label printing. 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.

If you have any questions about this letter, please contact Caleb Carr by phone at (202) 566-0636, or via email at carr.caleb@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

TAKEDOWN[®] SC

COTTON DEFOLIANT

FOR AGRICULTURAL USE ONLY

ACTIVE INGREDIENT:

Thidiazuron (N-phenyl-N'-1,2,3-thiadiazol-5-ylurea)* 42.4%

OTHER INGREDIENTS: 57.6%

TOTAL 100.0%

*Not less than 4.0 lbs of thidiazuron per gallon.

KEEP OUT OF REACH OF CHILDREN CAUTION—CAUCION

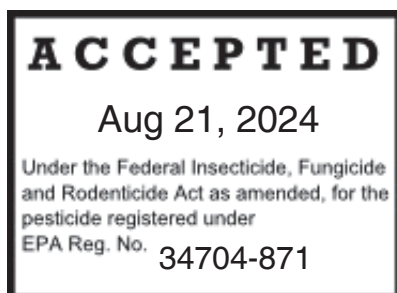
FIRST AID

| | |
|--------------------------------|---|
| If swallowed: | <ul style="list-style-type: none">• Immediately call a poison control center or doctor for treatment advice.• Do not induce vomiting unless told to do so by a poison control center or doctor.• Have person sip a glass of water if able to swallow.• Do not give anything by mouth to an unconscious person. |
| If inhaled: | <ul style="list-style-type: none">• 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 in eyes: | <ul style="list-style-type: none">• Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.• Remove contact lenses, if present, after the first five minutes, then continue rinsing.• Call a poison control center or doctor for treatment advice. |
| If on skin or clothing: | <ul style="list-style-type: none">• Take off contaminated clothing.• Rinse skin immediately with plenty of water for 15 to 20 minutes.• Call a poison control center or doctor for treatment advice. |

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-866-944-8565.

Have the product container or label with you when calling a poison control center or doctor or going for treatment.

EPA REG. NO. 34704-871
EPA EST. NO. 34704-MS-001
NET CONTENTS 1 GAL. (3.78 L)



[IRRD V4 0824]

TAKEDOWN® SC COTTON DEFOLIANT
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PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION

Harmful if swallowed, inhaled, or absorbed through the skin. Avoid breathing spray mist. Avoid contact with skin, eyes, and clothing. Do not contaminate food or feedstuffs.

Personal Protective Equipment:

All mixers, loaders and applicators must wear:

- Long-sleeved shirt, long pants,
- Shoes and socks,
- Waterproof gloves.

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.

Engineering Controls Statement

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.

Pilots must use an enclosed cockpit that meets the requirements listed in the WPS for agricultural pesticides [40 CFR 170.240(d)(6)].

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

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 washwaters or rinsate.

This product may contaminate water through drift or spray in wind. This product has a high potential for runoff for several months or more after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential for contamination of water from runoff. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours. Sound erosion control practices will reduce this product's contribution to surface water contamination.

This chemical has properties and characteristics associated with chemicals detected in ground water. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

DIRECTIONS FOR USE

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

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.

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:

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- Coveralls,
- Waterproof gloves,
- Shoes plus socks.

POLLINATOR ADVISORY STATEMENT: This product may adversely impact the forage and habitat of local pollinators, including monarch butterfly (and its larvae), birds, or bats if it reaches non-target areas. Protect pollinators by following label directions to minimize spray drift.

Runoff Prevention: To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems.

USE INFORMATION

Takedown® SC Cotton Defoliant is used for removal of leaves prior to harvesting. Takedown SC Cotton Defoliant disperses easily in water and can be used in any ground and aircraft equipment. It may take several days before the effect of Takedown SC Cotton Defoliant becomes noticeable. Adverse conditions, such as low temperatures, may require higher specified dosages and/or longer times for more complete defoliation. Takedown SC Cotton Defoliant inhibits regrowth after defoliation and thus reduces staining of lint during harvesting and ginning.

USE PRECAUTIONS

Mixtures with organophosphates can increase non-target crop phytotoxicity.

Some crops (e.g., citrus, lettuce, cantaloupes, and others) are sensitive to this chemical and additional care needs to be exercised if these crops are present in adjacent fields.

USE RESTRICTIONS

Do not apply sequential application of Takedown SC Cotton Defoliant following any defoliant or desiccant except Takedown SC Cotton Defoliant used alone or Takedown SC Cotton Defoliant in tank mixes. Reduced activity of the second treatment will result.

Do not apply Takedown SC Cotton Defoliant through any type of irrigation system.

Use only freshly prepared sprays. Do not store spray mixture overnight.

Do not feed foliage from treated cotton plants or gin trash to livestock.

Do not plant the following crops earlier than the specified periods after the application of Takedown SC Cotton Defoliant.

| | |
|---|--|
| Small grain, sorghum, corn | two (2) weeks |
| or root crops (except carrots, onions, and sugar beets) | |
| Legumes (including alfalfa) | two (2) months |
| or leafy vegetables (except lettuce and spinach) | |
| Sugar beets | four (4) months |
| Carrots, onions, or spinach | nine (9) months |
| Lettuce | nine (9) months |
| | and only following deep plowing (12-15 inches) |

Do not use immature crops for food or feed.

Do not allow spray drift to contact crops other than the target crop of mature cotton, or cotton which you desire to defoliate as Takedown SC Cotton Defoliant may injure or defoliate other crops.

MANDATORY SPRAY DRIFT MANAGEMENT

These requirements do not apply to forestry applications, public health uses or to applications using dry formulations.

1. Use a nozzle that produces medium spray or coarser spray according to ANSI/ASAE S572.3 FEB 2020 for ground application and ANSI/ASABE S641 MAY 2018 for aerial application.
2. When using ground application, apply with nozzle height no more than 2 feet above the ground or crop canopy.
3. For both aerial and ground application, do not apply when wind speeds exceed 10 miles per hour at the application site.

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4. Do not spray via ground or aerial application equipment during temperature inversions.
5. When applying aurally:
 - Do not release spray at a height greater than 10 ft above the crop canopy, unless a greater application height is necessary for pilot safety.
 - The spray boom must be mounted on the aircraft so as to minimize drift caused by wing tip or rotor blade vortices. The boom length must not exceed 75% of the wingspan for airplanes or 90% of the rotor blade diameter for helicopters.
 - When applying to crops via aerial application equipment, use ½ swath displacement upwind at the downwind edge of the field.
 - Nozzles must be oriented so the spray is directed toward the back of the aircraft.

SPRAY DRIFT ADVISORIES

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

IMPORTANCE OF DROPLET SIZE

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

Controlling Droplet Size—Ground Boom

- Volume - Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- Pressure – Use the lower spray pressures recommended for the nozzle. Higher pressure reduces droplet size and does not improve canopy penetration. **WHEN HIGHER FLOW RATES ARE NEEDED, USE A HIGHER-CAPACITY NOZZLE INSTEAD OF INCREASING PRESSURE.**
- Nozzle Type - Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles.

Controlling Droplet Size—Aircraft

- Number of Nozzles - Use the minimum number of nozzles with the highest flow rate that provide uniform coverage.
- Nozzle Orientation - Orienting nozzles so that the spray is emitted backwards, parallel to the airstream will produce larger droplets than other orientations. **AVOIDING SPRAY DRIFT IS THE RESPONSIBILITY OF THE APPLICATOR.**
- Nozzle Type – Solid stream nozzles (such as disc and core with swirl plate removed) oriented straight back produce larger droplets than other nozzle types.
- Boom Length – Longer booms increase drift potential. Therefore a shorter boom length is recommended.
- Application Height – Application more than 10 ft. above the canopy increases the potential for spray drift.

BOOM HEIGHT

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

WIND

Drift potential increases at wind speeds of less than 3 mph (due to inversion potential) or more than 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given wind speed. **AVOID APPLICATIONS DURING GUSTY OR WINDLESS CONDITIONS.** Note: Local terrain can influence wind patterns. Every applicator needs to be familiar with local wind patterns and how they affect spray drift.

TEMPERATURE AND HUMIDITY

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

TEMPERATURE INVERSIONS

Drift potential is high during a temperature inversion. Temperature inversions restrict vertical air mixing, which

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

SHIELDED SPRAYERS

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

SWATH ADJUSTMENT

When applications are made with a crosswind, the swath will be displaced downwind. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase, with increasing drift potential (higher wind, smaller drops, etc.)

SENSITIVE AREAS

The pesticide must only be applied when the potential for drift to adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g. when wind is blowing away from the sensitive areas).

PRACTICES TO LOWER THE POTENTIAL FOR DRIFT ONTO NON-TARGET CROPS INCLUDING IN THE RIO GRANDE VALLEY OF TEXAS

To help reduce the drift potential, use the following practices:

- Use the specified low nozzle pressures (20-30 psi).

APPLICATION RESTRICTIONS FOR DRIFT

Thidiazuron products cannot be applied by air within 1/2 mile of lettuces or within 5 miles upwind of citrus in flush (burst of new growth, as in springtime) in the Rio Grande valley of Texas. Ground applications are restricted to no less than 100 feet away from lettuce and no less than 1/2 mile upwind from citrus.

In general, a decrease in droplet size or increase in wind speed at the time of application will result in risk to non-target organisms. Alternately, if droplet size is coarser or wind speeds are lower, exposures due to drift would be reduced.

TIME OF APPLICATION

Apply Takedown SC Cotton Defoliant only to mature cotton plants when the last boll you expect to harvest is mature. A boll can be described as "mature" when it is too hard to be dented when squeezed between thumb and fingers, is difficult to slice with a sharp knife, and/or when seeds cut in cross sections have fully developed cotyledons, as evidenced by an absence of jelly within the seed.

Apply Takedown SC Cotton Defoliant at least 5 days prior to anticipated harvest.

NOTE: Good defoliation with Takedown SC Cotton Defoliant is dependent upon three factors:

1. Actively growing cotton
2. High humidity
3. High moisture content in leaf of cotton plant

Use of Takedown SC Cotton Defoliant alone (without a tank mix partner) when nighttime temperatures are expected to fall below 60°F can result in less than desirable defoliation and/or regrowth inhibition.

Performance of Takedown SC Cotton Defoliant is variable under low temperatures. Ideally, nighttime temperatures 2-3 days prior to and following application should be above 60°F or total defoliation and regrowth inhibition can be reduced.

Use of Takedown SC Cotton Defoliant on heat and drought-stressed cotton (low leaf moisture, thick cuticle, etc.) may result in less than satisfactory defoliation and regrowth inhibition.

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USE OF ADJUVANTS (CROP OILS)

The use of adjuvants such as petroleum-based crop oils or penetrating oils approved for use on growing crops has been shown to improve performance during low nighttime temperatures (60 - 65°F) or when defoliating drought-stressed cotton. Refer to specific adjuvant label for rate recommendations.

The use of adjuvants is recommended when applying Takedown SC Cotton Defoliant in the desert Southwest (i.e., Arizona and California).

PRECAUTION: The addition of adjuvants can cause desiccation and/or leaf freezing during periods of high temperatures. The use of compounds that desiccate leaf tissues is not recommended.

MIXING INSTRUCTIONS

Fill the spray tank with one-half of the total amount of water to be used. Begin agitation and add the specified amount of Takedown SC Cotton Defoliant. Fill the tank with the additional quantity of water required. Maintain sufficient agitation to ensure a uniform spray mixture during application.

Tank Mix Adjuvants

When using tank mixes of Takedown SC Cotton Defoliant and organophosphates, the use of a surfactant or compatibility agent is recommended to improve tank clean-out and overall defoliation. Prior to mixing in the spray tank, a small-scale compatibility test should be conducted.

Use only products which are exempt from tolerance under 40 CFR 180.1001.

Always follow the mixing instructions on the label of the appropriate adjuvant.

APPLICATION

Use the specific dosage of Takedown SC Cotton Defoliant in sufficient amount of water to give complete coverage of the foliage with uniform wetting of leaf surfaces. Apply in 10 to 25 gallons of spray per acre by ground equipment and 3 to 10 gallons per acre by air. Agitate the spray mix during application.

For cutout and mature cotton under normal weather patterns, use Takedown SC Cotton Defoliant at 1.6 to 3.2 fluid ounces (0.05 to 0.1 pound active ingredient) per acre. The 1.6 fluid ounce (0.05 pound active ingredient) rate is most effective when used in a tank mix with other cotton defoliant products.

Increased rates of Takedown SC Cotton Defoliant above 3.2 fluid ounces (0.1 pound active ingredient) per acre may be needed to defoliate and control regrowth during periods of rank growth/high fertilizer conditions, extreme weather conditions, such as extended periods of rain and/or low temperature (60 to 65°F), and on full-season cotton varieties.

APPLICATION RESTRICTIONS

Use Rate Information (under normal conditions) for Cotton:

- Do not apply more than 4 fluid ounces (0.125 pound active ingredient) per acre in a single application.
- Do not apply more than 9.6 fluid ounces (0.3 pound active ingredient) per acre per year.
- Do not apply more than 2 applications per year.
- Pre-Harvest Interval (PHI): 5 days.

Use Rate Information (under variable conditions) for Cotton:

- Do not apply more than 6.4 fluid ounces (0.2 pound active ingredient) per acre in a single application.
- Do not apply more than 9.6 fluid ounces (0.3 pound active ingredient) per acre per year.
- Do not apply more than 2 applications per year.
- Pre-Harvest Interval (PHI): 5 days.

Tank Mix of Takedown SC Cotton Defoliant Plus Prep® or Finish® for Boll Opening

- Do not apply tank mix before sufficient unopened bolls have matured to produce the desired cotton yield.

Tank Mix of Takedown SC Cotton Defoliant Plus Def® 6 or Folex® 6 EC

- **DO NOT USE TANK MIX OF TAKEDOWN SC COTTON DEFOLIANT PLUS DEF 6 OR FOLEX 6 EC IN THE RIO GRANDE VALLEY COUNTIES OF STARR, HIDALGO, WILLACY, AND CAMERON.**

DOSAGE

One gallon of Takedown SC Cotton Defoliant treats 20 to 40 acres (3.2 to 6.4 fluid ounces; 0.1 to 0.2 pound active ingredient per acre). Use the higher rates during periods of low temperatures (60 to 65°F). Two applications not exceeding a total of 9.6 fluid ounces (0.3 pound active ingredient) per acre per year may be necessary to defoliate rank cotton.

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| To Achieve an Application Rate of: | Use This Amount of Product: | At the Indicated Rate, One Gallon of Product Will Treat: |
|------------------------------------|-----------------------------|--|
| 0.1 lb ai/Acre | 3.2 fluid ounces/A | 40 acres |
| 0.2 lb ai/Acre | 6.4 fluid ounces/A | 20 acres |

Bottom Defoliation For Use In Arizona Only: Takedown SC Cotton Defoliant may be used as an aid to improve air circulation and help reduce boll rot caused by moisture.

Apply Takedown SC Cotton Defoliant at 1.6 fluid ounces (0.05 pound active ingredient) formulated product per acre.

Application to **bottom** 1/3 of plant only recommended.

Timing of application should be based upon the latest date when ground application equipment can enter the field without crop damage.

Preconditioning For Use In Arizona And California Only: Takedown SC Cotton Defoliant may be used as a pre-conditioner to enhance the activity of a defoliant application.

Apply Takedown SC Cotton Defoliant at 1.6 to 3.2 fluid ounces (0.05 to 0.1 pound active ingredient) formulated product per acre.

Timing of application is recommended to be 7 to 14 days prior to the use of another defoliant. Refer to the second product label prior to use for complete recommendations.

Tank Mix of Takedown SC Cotton Defoliant Plus Prep® or Finish® for Boll Opening: The tank mix of Takedown SC Cotton Defoliant plus Prep or Finish is recommended to improve overall defoliation, and as an aid in accelerating the opening of mature, unopened cotton bolls. Best activity will be obtained where the tank mix is applied to mature cotton plants. (See Time Of Application section of this label.) If nighttime temperatures are expected to fall below 60°F, unsatisfactory defoliation and regrowth inhibition may result. Certified cottonseed producers should determine boll and seed maturity prior to treatment.

Apply Takedown SC Cotton Defoliant at a rate of 1.6 to 6.4 fluid ounces (0.05 to 0.2 pound active ingredient per acre) formulated product plus Prep at 1.0 to 2.0 pounds active ingredient per acre or Finish at 1.0 to 1.5 pounds active ingredient per acre. The higher specified rate of Takedown SC Cotton Defoliant should be used where excessive regrowth is anticipated, or during cooler temperatures.

Tank Mix of Takedown SC Cotton Defoliant Plus Prep for Defoliation Enhancement: Lower rates of Prep may be tank mixed with Takedown SC Cotton Defoliant to enhance defoliation without providing boll opening activity. Prep may still be applied as a sequential treatment for boll opening following an application of Takedown SC Cotton Defoliant at a defoliation enhancement rate. Read and follow the Prep label, and do not exceed a maximum of 2.0 pounds active ingredient per acre for combined uses of Prep per acre per year.

Apply Takedown SC Cotton Defoliant at a rate of 1.6 to 6.4 fluid ounces (0.05 to 0.2 pound active ingredient) formulated product plus Prep at 1/3 pint per acre (0.25 pounds active ingredient per acre). The higher specified rates of Takedown SC Cotton Defoliant should be used where excessive regrowth is anticipated, or during cooler temperatures.

Tank Mix of Takedown SC Cotton Defoliant Plus Def® 6 or Takedown SC Cotton Defoliant Plus Folex® 6 EC: The tank mix of Takedown SC Cotton Defoliant and Def 6 or Folex 6 EC is recommended to improve defoliation and inhibit regrowth under less than ideal conditions. Less than ideal conditions are those when the nighttime temperatures are expected to be 60°F on the date of application and for three days following application.

Best activity will be obtained when the tank mix is applied to mature cotton plants with 60% or more open bolls.

Rate Of Application

Takedown SC Cotton Defoliant + Def 6 = 1.6 to 6.4 fluid ounces (0.05 to 0.2 pounds active ingredient) Takedown SC Cotton Defoliant per acre + 0.5 to 2.0 pints Def 6.

Takedown SC Cotton Defoliant + Folex 6 EC = 1.6 to 6.4 fluid ounces (0.05 to 0.2 pounds active ingredient) Takedown SC Cotton Defoliant + 0.5 to 2.0 pints Folex 6 EC.

Higher specified rate of Takedown SC Cotton Defoliant should be used where excessive regrowth is anticipated.

Maximum rates of Takedown SC Cotton Defoliant and phosphate defoliants applied in a tank mix during very high air temperatures can cause desiccation.

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Use lower specified rate of Def 6 or Folex® 6 EC under ideal nighttime temperature conditions (65°F); higher specified rate during less than ideal or adverse conditions.

When applying Def 6 or Folex 6 EC defoliant plus Takedown SC Cotton Defoliant as a tank mix, the following mixing sequence is recommended:

1. Add required water to spray tank, agitate.
2. Add Takedown SC Cotton Defoliant according to label directions (see mixing instructions).
3. Add Def 6 or Folex 6 EC according to rate desired after Takedown SC Cotton Defoliant has completely dispersed.

A second application of the labeled tank mix may be made where necessary, but not exceeding a total of 9.6 fluid ounces (0.3 pounds active ingredient) of Takedown SC Cotton Defoliant per acre.

Refer to Def 6 and Folex 6 EC labeling for additional use directions and cautions when using tank mixtures of Takedown SC Cotton Defoliant and those products.

IMPORTANT CLEANOUT INSTRUCTIONS

Tank mixes of Takedown SC Cotton Defoliant with organophosphates may form a residue in application equipment. While still fresh and moist, this residue can be removed by flushing the entire system with a commercial tank cleaner. Consult your State Extension Cotton Specialist for recommended tank cleaners and cleaning procedures.

Do not allow the spray solution to dry in the application equipment. Immediately following application, clean all equipment (mix tanks, pumps, transfer lines, application tanks, sumps, booms, nozzles and all related equipment) thoroughly with cleaner and water.

Should small quantities of Takedown SC Cotton Defoliant remain in inadequately cleaned equipment, they may be released during subsequent applications and may cause damage to crops. Loveland Products, Inc. accepts no liability for damage to crops due to inadequately cleaned equipment.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store at temperatures below 100°F. If allowed to freeze, remix before using.

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

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state. Once cleaned, some agricultural plastic pesticide containers can be taken to a container collection site or picked up for recycling. To find the nearest site, contact your chemical dealer or manufacturer, or contact The Agricultural Container Recycling Council (ACRC) at www.acrecycle.org.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

For packages up to 5 gallons: 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 ¼ 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.

Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

For packages greater than 5 gallons and less than 56 gallons: Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. **Pressure rinse as follows:** Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

For packages greater than 56 gallons: To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with

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water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

For refillable containers: Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

For help with any spill, leak, fire or exposure involving this material, call day or night CHEMTREC - 1-800-424-9300.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

BEFORE BUYING OR USING THIS PRODUCT, read the entire Directions for Use and the following Conditions of Sale and Limitation of Warranty and Liability. By buying or using this product, the buyer or user accepts the following Conditions of Sale and Limitation of Warranty and Liability, which no employee or agent of LOVELAND PRODUCTS, INC. or the seller is authorized to vary in any way.

Follow the Directions for Use of this product carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop or other plant injury, ineffectiveness, or other unintended consequences may result from such risks as weather or crop conditions, mixture with other chemicals not specifically identified in this product's label, or use of this product contrary to the label instructions, all of which are beyond the control of LOVELAND PRODUCTS, INC. and the seller. The buyer or user of this product assumes all such inherent risks.

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