



OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

WASHINGTON, D.C. 20460

March 11, 2024

Lynea Murphy
Regulatory Leader
Corteva Agriscience
9330 Zionsville Road
Indianapolis, IN 46268

Subject: Label Amendment – Add previously approved uses for Millet Grown for Grain, Forage or Hay & Pome Fruit, revise referral statements & other label revisions; Registration Review Mitigation for Fluroxypyr 1-methylheptyl ester
Product Name: STARANE ULTRA
EPA Registration Number: 62719-577
Application Date: May 25, 2023; September 15, 2021
Case Number: 475120; 474385

Dear Lynea Murphy:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

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

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.

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 FIFRA 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) lists 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.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6.

If you have any questions, please contact Endia Blunt at 202-566-2505 or at blunt.endia@epa.gov.

Sincerely,

A handwritten signature in black ink, appearing to read 'Kable Bo Davis', enclosed within a hand-drawn oval.

Kable Bo Davis
Senior Regulatory Specialist
Office of Pesticide Programs
Registration Division, Immediate Office

Enclosure

(Base label):

FLUROXYPYR	GROUP	4	HERBICIDE
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Starane[®] Ultra

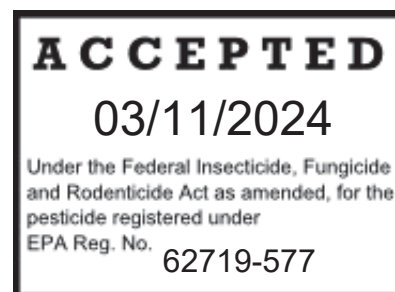
HERBICIDE

[Alternate Brand Name: Position™, StareDown™]

For selective postemergence control of annual and perennial broadleaf weeds and volunteer potatoes in small grains, field corn, sweet corn, grain sorghum, dry bulb onion, fallow cropland, millet grown for grain, forage or hay, on-farm non-cropland, CRP acres, pome fruits, and grasses grown for seed, forage, or hay.

Active Ingredient:	% by Weight
fluroxypyr 1-methylheptyl ester: ((4-amino-3,5-dichloro-6-fluoro-2-pyridinyl)oxy)acetic acid, 1-methylheptyl ester	45.52%
Other Ingredients	54.48%
Total	100.00%

Acid Equivalent: fluroxypyr: ((4-amino-3,5-dichloro-6-fluoro-2-pyridinyl)oxy)acetic acid – 31.59% - 2.8 lb/gal



Keep Out of Reach of Children

WARNING AVISO

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

Precautionary Statements

Hazards to Humans and Domestic Animals

Causes Substantial But Temporary Eye Injury • Prolonged or Frequently Repeated Skin Contact May Cause Allergic Reactions in Some Individuals

Do not get in eyes or on clothing. Avoid contact with skin.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves such as natural rubber ≥ 14 mils
- Shoes plus socks
- Protective eyewear

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.

Engineering Controls

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protections Standard (WPS) for agricultural pesticides [40 CFR 170.607(d-f)], the handler PPE requirements may be reduced or modified as specified in the WPS.

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.

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. Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center (1-800-222-1222) or doctor, or going for treatment. You may also contact 1-800-992-5994 for emergency medical treatment information.

Environmental Hazards

This product is toxic to fish. Drift or runoff from treated areas may be hazardous to aquatic organisms and non-target plants. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

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 label directions intended to minimize spray drift.

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 for rigid containers 5 gal or less)

Storage and Disposal

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

Pesticide Storage: Store above 10°F or warm and agitate before use to ensure any crystallization that may have occurred redissolves.

Pesticide Disposal: Pesticide wastes are toxic. 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 Handling: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available.

Triple rinse or pressure rinse container (or equivalent) 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. **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.

(Storage and Disposal for refillable rigid containers larger than 5 gal)

Storage and Disposal

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

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Container Handling: Refillable container. 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 a mix tank. Fill the container about 10% full with water and, if possible, spray all sides while adding water. If practical, agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

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Refer to inside of label booklet for additional precautionary information and Directions for Use.

Notice: Read the entire label. Use only according to label directions. **Before using this product, read Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies 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 1-800-992-5994.

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

EPA Reg. No. 62719-577

EPA Est. _____

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**Produced for
Corteva Agriscience LLC
9330 Zionsville Road
Indianapolis, IN 46268**

NET CONTENTS _____

(Booklet cover):

FLUROXYPYR	GROUP	4	HERBICIDE
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Starane[®] Ultra

HERBICIDE

[Alternate Brand Name: Position[™], StareDown[™]]

For selective postemergence control of annual and perennial broadleaf weeds and volunteer potatoes in small grains, field corn, sweet corn, grain sorghum, dry bulb onion, fallow cropland, millet grown for grain, forage or hay, on-farm non-cropland, CRP acres, pome fruits, and grasses grown for seed, forage or hay.

Active Ingredient:	% by Weight
fluroxypyr 1-methylheptyl ester: ((4-amino-3,5-dichloro-6-fluoro-2-pyridinyl)oxy)acetic acid, 1-methylheptyl ester	45.52%
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Refer to inside of label booklet for additional precautionary information including First Aid and Directions for Use.

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(Booklet Page 1 through end):

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Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves such as natural rubber ≥ 14 mils
- Shoes plus socks
- Protective eyewear

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.

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Have the product container or label with you when calling a poison control center (1-800-222-1222) or doctor, or going for treatment. You may also contact 1-800-992-5994 for emergency medical treatment information.

Environmental Hazards

This product is toxic to fish. Drift or runoff from treated areas may be hazardous to aquatic organisms and non-target plants. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

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 label directions intended to minimize spray drift.

Directions for Use

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read all Directions for Use carefully before applying.

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 worker entry into treated areas during the restricted entry interval (REI) of 24 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 natural rubber ≥ 14 mils
- Shoes plus socks
- Protective eyewear

Non-Agricultural Use Requirements

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for Agricultural Pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Entry Restrictions for Non-WPS Uses: When applied to on-farm non-cropland, keep unprotected persons out of treated areas until sprays have dried.

Storage and Disposal

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

Pesticide Storage: Store above 10°F or warm and agitate before use to ensure any crystallization that may have occurred redissolves.

Pesticide Disposal: Pesticide wastes are toxic. 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.

Nonrefillable containers 5 gallons or less:

Container Handling: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available.

Triple rinse or pressure rinse container (or equivalent) 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. **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.

Refillable containers larger than 5 gallons:

Container Handling: Refillable container. 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 a mix tank. Fill the container about 10% full with water and, if possible, spray all sides while adding water. If practical, agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

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Product Information

Starane® Ultra herbicide is a selective postemergence product for control of annual and perennial broadleaf weeds and volunteer potatoes in wheat, barley, oats, or triticale not under seeded with a legume, field corn, sweet corn, grain sorghum, dry bulb onion, fallow cropland, millet grown for grain, forage or hay, on-farm non-cropland, CRP acres, pome fruits and grasses grown for seed, forage, or hay.

Product Precautions

- Avoid applications where proximity of susceptible crops or other desirable plants is likely to result in exposure to spray or spray drift.

Product Restrictions

- Do not apply Starane Ultra directly to, or otherwise permit it to come in direct contact with, susceptible crops or desirable plants including, but not limited to, alfalfa, canola, cotton, lettuce, edible beans, grapes, lentils, mustard, peas, potatoes, radishes, soybeans, sugar beets, sunflowers, tomatoes, or tobacco.
- Do not contaminate irrigation ditches or water used for domestic purposes.

- **Maximum Application Rate:** Do not apply more than 0.7 pints per acre (0.25 lb ae/A) of Starane Ultra per year, except in Pome Fruits.
- **Plant-back Restriction:** If replanting is required, plant only those crops listed on this label or Federally approved supplemental labeling for Starane Ultra within 120 days following application.
- **Chemigation:** Do not apply this product through any type of irrigation system.
- This product is persistent and may be present in plant materials for over 30 days after application. Do not use treated plant material or manure from animals that have grazed or consumed forage from treated areas for compost, mulch, or mushroom spawn until 30 days after application.
- Animals that have been fed fluroxypyr treated forage must be fed forage free of fluroxypyr for at least 3 days before they are moved off the treated property.

Spray Drift Management

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 and the grower are responsible for considering all these factors when making decisions. The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops. These requirements do not apply to forestry applications, public health uses or to applications using dry formulations.

1. The distance of the outer most nozzles on the boom must not exceed $\frac{3}{4}$ the length of the wingspan or rotor.
2. Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees. Where states have more stringent regulations, they should be observed.

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.

Controlling Droplet Size – Aircraft

- Adjust Nozzles - Follow nozzle manufacturers' recommendations for setting up nozzles. Generally, to reduce fine droplets, nozzles should be oriented parallel with the airflow in flight.

BOOM HEIGHT – Ground Boom

For ground equipment, the boom should remain level with the crop and have minimal bounce.

RELEASE HEIGHT - Aircraft

Higher release heights increase the potential for spray drift.

SHIELDED 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.

Boomless Ground Applications:

- Setting nozzles at the lowest effective height will help to reduce the potential for spray drift.

Handheld Technology Applications:

- Take precautions to minimize spray drift.

Sensitive Areas: The pesticide should 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).

WEED RESISTANCE MANAGEMENT

For resistance management, Starane Ultra is a Group 4 herbicide. Any weed population may contain or develop plants naturally resistant to Starane Ultra and other Group 4 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. Proactively implementing diversified weed control strategies to minimize selection for weed populations resistant to one or more herbicides is a best practice. A diversified weed management program may include the use of multiple herbicides with different modes of action and overlapping weed spectrum with or without tillage operations and/or other cultural practices. Research has demonstrated that using the labeled rate and directions for use is important to delay the selection for resistance.

The continued effectiveness of this product depends on the successful implementation of a weed resistance management program.

To aid in the prevention of developing weeds resistant to this product, users should:

- Scout fields before application to ensure herbicides and rates will be appropriate for the weed species and weed sizes present.
- Start with a clean field, using either a burndown herbicide application or tillage.
- If using post-emergence herbicides or tank mixes, control weeds early when they are relatively small.
- Apply full rates of Starane Ultra for the most difficult to control weed in the field at the specified time to minimize weed escapes.
- Scout fields after application to detect weed escapes or shifts in control of weed species.
- Control weed escapes before they reproduce by seed or proliferate vegetatively.
- Report any incidence of non-performance of this product against a particular weed to your local company representative, local retailer, or county extension agent.

- Contact your local company representative, crop advisor, or extension agent to find out if suspected resistant weeds to this MOA have been found in your region. If resistant biotypes of target weeds have been reported, use the application rates of this product specified for your local conditions. Tank mix products so that there are multiple effective modes of action for each target weed.
- If resistance is suspected, treat weed escapes with an herbicide having a mode of action other than Group 4 and/or use nonchemical methods to remove escapes, as practical, with the goal of preventing further seed production.
- Suspected herbicide-resistant weeds may be identified by these indicators:
 - Failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds;
 - A spreading patch of non-controlled plants of a particular weed species; and
 - Surviving plants mixed with controlled individuals of the same species.

Additionally, users should follow as many of the following herbicide resistance management practices as is practical:

- Use a broad spectrum herbicide with other mode of action as a foundation in a weed control program, if appropriate.
- Utilize sequential applications of herbicides with alternative modes of action.
- Rotate the use of this product with non-Group 4 herbicides.
- Avoid making more than two sequential applications of Starane Ultra and any other Group 4 herbicides within a single growing season unless mixed with an herbicide with a different mode of action with an overlapping spectrum for the difficult-to-control weeds.
- Incorporate non-chemical weed control practices, such as mechanical cultivation, crop rotation, cover crops and weed-free crop seeds, as part of an integrated weed control program.
- Use good agronomic principles that enhance crop development and crop competitiveness.
- Thoroughly clean plant residues from equipment before leaving fields suspected to contain resistant weeds.
- Manage weeds in and around fields to reduce weed seed production.

Management of Kochia Biotypes

Research has suggested that many biotypes of kochia can occur within a single field. While kochia biotypes can vary in their susceptibility to Starane Ultra, all will be suppressed or controlled by the 0.4 pint per acre labeled rate. Application of Starane Ultra at rates below the 0.4 pint per acre rate can result in a shift to more tolerant biotypes within a field.

Sprayer Cleanup

To avoid injury to or exposure of nontarget crops, thoroughly clean and drain spray equipment used to apply Starane Ultra after use. Cleaning should occur as soon as possible after application of Starane Ultra. Spray equipment should be cleaned after use with Starane Ultra by the following procedure:

1. Drain any remaining Starane Ultra from the spray tank and dispose of according to label disposal instructions.
2. Hose down the interior surfaces of the tank. Flush tank, hoses, boom, and nozzles with clean water for 10 minutes. Fill the tank with water and recirculate for 15 minutes. Spray part of the mixture through the hoses, boom, and nozzles and drain the tank. All rinse water must be disposed of in compliance with local, state, and federal guidelines.
3. Remove the nozzles and screens and clean separately.
4. If the spray equipment will be used on crops other than those labeled for Starane Ultra, repeat steps 1 and 2 and thoroughly wash the outside of spray tank and the boom.

Mixing Instructions

Starane Ultra Alone

Fill spray tank with water equal to 1/2 to 3/4 of the required spray volume. Add the required amount of Starane Ultra, then finish filling the tank. Provide sufficient agitation during mixing and application to maintain a uniform emulsion.

Tank Mixing

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

This product may be applied in tank mix combination with labeled rates of other products provided (1) the tank mix product is labeled for the timing and method of application for the use site to be treated; and (2) tank mixing is not prohibited by the label of the tank mix product.

Tank Mixing Precautions:

1. Read carefully and follow all applicable use directions, precautions, and limitations on the respective product labels.
2. Do not exceed labeled application rates. Do not tank mix with another pesticide product that contains the same active ingredient as this product unless the label of either tank mix partner specifies the maximum dosages that may be used.
3. Always perform a (jar) test to ensure the compatibility of products to be used in tank mixture.

Tank Mix Compatibility Testing: Perform a jar test prior to tank mixing to ensure compatibility of Starane Ultra and other pesticides, fertilizers or carriers. Use a clear glass quart jar with lid and mix the tank mix ingredients in their relative proportions. Invert the jar containing the mixture several times and observe the mixture for approximately 1/2 hour. If the mixture balls-up, forms flakes, sludges, jels, oily films or layers, or other precipitates, it is not compatible and the tank mix combination should not be used.

Tank Mixing Instructions

Fill spray tank with water to 1/4 to 1/3 of the required spray volume. Start agitation. Add different formulation types in the order indicated, allowing time for complete mixing and dispersion after addition of each.

1. Add dry flowables; wettable powders; aqueous suspensions, flowables or liquids.
2. Maintain agitation and fill spray tank to 3/4 of total spray volume and then add Starane Ultra and other emulsifiable concentrates and any solutions.

Finish filling the spray tank. Maintain continuous agitation during mixing, final filling and throughout application. If spraying and agitation must be stopped before the spray tank is empty, the materials may settle to the bottom. Settled materials must be resuspended before spraying is resumed. A sparger agitator is particularly useful for this purpose. Settled material may be more difficult to resuspend than when originally mixed.

Application Directions

Application Timing: Apply to actively growing weeds. Extreme growing conditions such as drought or near freezing temperatures prior to, at and following time of application may reduce weed control and increase the risk of crop injury at all stages of growth. **Only weeds that are emerged at the time of application will be affected.** Foliage that is wet at the time of application may decrease control. Applications of Starane Ultra are rain-fast within 1 hour after application.

Effect of Temperature on Herbicidal Activity: Herbicidal activity of Starane Ultra is influenced by weather conditions. Optimum activity requires active plant growth. The temperature range for optimum

herbicidal activity is 55°F to 75°F. Reduced activity will occur when temperatures are below 45°F or above 85°F. Frost before application (3 days) or shortly after (3 days) may reduce weed control and crop tolerance.

Application Rates: Generally, application rates at the lower end of the specified rate range will be satisfactory for young, succulent growth of sensitive weed species. For less sensitive species, perennials, and under conditions where control is more difficult (plant stress conditions such as drought or extreme temperatures, dense weed stands and/or larger weeds) the higher rates within the rate range will be needed. Weeds growing in the absence of crop competition generally require higher rates to obtain satisfactory control or suppression.

Coverage: Apply in 3 or more gallons per acre by air or in 8 or more gallons per acre by ground equipment. Do not exceed 40 gallons per acre total spray volume. Use sufficient spray volume to provide thorough coverage and a uniform spray pattern. Inadequate spray volume and coverage may result in decreased weed control. As canopy and weed density increase, spray volume should be increased to obtain equivalent weed control. Use larger nozzle tips or decrease spraying speed to increase spray volume rather than increasing boom pressure. Refer to manufacturer's instructions for information on relationships between spray volume, and nozzle size and arrangement.

Adjuvants: Generally, this product does not require the use of an adjuvant to achieve satisfactory weed control when applied alone. However, the addition of an adjuvant may optimize herbicidal activity when applications are made (a) at lower carrier volumes, (b) under conditions of cool temperature, low relative humidity or drought, or (c) to small, heavily pubescent kochia. Adjuvants may be used when required by a tank mix partner. Follow all applicable directions on the label for the tank mix partner.

Spot Treatments: To prevent misapplication, spot treatments should be applied with a calibrated boom or with hand sprayers according to directions provided below.

Hand-Held Sprayers: Hand-held or backpack sprayers may be used for spot applications of Starane Ultra if care is taken to apply the spray uniformly and at a rate equivalent to a broadcast application. Application rates in the table are based on an area of 1,000 sq ft. The amount of Starane Ultra (fl oz or ml) in the table should be mixed with 1 gallon or more of water and applied to an area of 1,000 sq ft. To calculate the amount of product required for larger areas, multiply the table value (fl oz or ml) by the area to be treated in "thousands" of square feet, e.g., if the area to be treated is 3,500 sq ft, multiply the table value by 3.5 (calc. $3,500 \div 1,000 = 3.5$). An area of 1000 sq ft is approximately 10.5 X 10.5 yards (strides) in size.

Amount of Starane Ultra to Equal Specified Broadcast Rate (Mix with 1 Gallon or More of Water and Apply to 1000 sq ft)		
0.4 pt/acre	0.55 pt/acre	0.7 pt/acre
0.15 fl oz (4.4 ml)	0.20 fl oz (5.9 ml)	0.26 fl oz (7.7 ml)

1 fl oz = 29.6 (30) ml

Weeds Controlled or Suppressed

(Numbers in parentheses (-) refer to footnotes below.)

Weeds Controlled

bedstraw (cleavers)
chickweed
clover, white
cocklebur
coffeeweed
flax, volunteer
grape species
hemp dogbane

Weeds Suppressed⁽²⁾

bindweed, field
buckwheat, wild
canola, volunteer
devilsclaw
field horsetail
horseweed (marestail)
knotweed
mallow, common

kochia ⁽¹⁾	marestail
mallow, Venice	marshelder
morningglory	mustard
prickly lettuce	nightshade species
puncturevine	pennycress, field
purslane, common	potato, volunteer
ragweed, common	Russian thistle
ragweed, giant	
sunflower	
velvetleaf	

1. Includes herbicide tolerant or resistant biotypes.
2. **Suppression** is expressed as a reduction in weed competition (reduction population or vigor) as compared to untreated areas. The degree of weed control and duration of effect may vary with weed size, density, application rate, coverage, and growing conditions before, during and after treatment.

Application Sites

Wheat - Barley - Oats - Triticale

Apply as a broadcast postemergence treatment to actively growing wheat, barley, oats or triticale from the 2 leaf crop growth stage up to and including flag leaf emergence (Zadoks scale 39) for control of broadleaf weeds. Apply when weeds are actively growing, but before weeds are 8 inches tall or vining. For control of volunteer potatoes, apply before potato plants are 8 inches tall. Only weeds emerged at the time of treatment will be controlled. Extreme growing conditions such as drought or near freezing temperatures prior to, at, and following time of application may reduce weed control and increase the risk of crop injury at all stages of growth. **Do not use if cereal crop is underseeded with a legume.**

Spot Application: Spot applications may be made, however, to prevent over-application spot treatments should be applied at rates and spray volumes equivalent to broadcast application. See instructions for Spot Application in Application Directions section.

Broadcast Application Rates:

(Numbers in parentheses (-) refer to footnotes following table.)

Weed Size or Species ⁽¹⁾	Application Rate (pint/acre)
Susceptible broadleaf weed seedlings less than 4 inches tall ⁽²⁾	0.3
Susceptible broadleaf weed seedlings less than 8 inches tall or vining	0.4
Volunteer potatoes	0.7

1. See "Weeds Controlled or Suppressed" section for a complete listing of weeds controlled or suppressed.
2. The 0.3 pint/acre rate will generally provide satisfactory control of kochia seedlings less than 4 inches tall (including ALS resistant biotypes). However, when conditions for control are less favorable, such as under drought or cool temperatures, the 0.4 pint/acre rate will provide more consistent control of kochia seedlings 1 to 4 inches tall. Control of small kochia with reduced rates will be more consistent if kochia is at least 1 inch tall. The 0.4 pint/acre rate should be used for optimal control of dicamba tolerant kochia populations (see "Management of Kochia Biotypes" in the Product Information section of this label).

Specific Use Restrictions:

- Do not allow livestock to graze treated areas or harvest treated forage within 7 days of application.
- Do not apply more than 0.7 pint (0.25 lb ae/A) of Starane Ultra per acre per year.
- Do not apply more than 0.7 pint (0.25 lb ae/A) of Starane Ultra per acre per application.
- Do not make more than one (0.25 lb ae/A) application of Starane Ultra per year.
- **Preharvest Interval:** Do not apply closer than 14 days before cutting of hay or 40 days before harvesting of grain and straw.

Field Corn

Apply Starane Ultra as a broadcast postemergence treatment using ground equipment or by air. Starane Ultra may also be applied as a pre plant treatment for control of **emerged** volunteer potato or for burndown of emerged weeds (refer to “Special Directions for Control of Volunteer Potato” below). Refer to the Product Information section of this label for detailed information on application timing, effect of temperature on herbicidal activity, application rates, spray coverage and instructions for spot application. Starane Ultra may be applied in tank mix combination with labeled rates of other registered herbicides. Read and follow all label directions, including applicable use directions, precautions and limitations on each product label.

Weeds Controlled or Suppressed

(Numbers in parentheses (-) refer to footnotes below.)

Key Weeds Controlled ⁽¹⁾	Key Weeds Suppressed ⁽³⁾	Application Rate (pint/acre)
catchweed bedstraw (cleavers) chickweed cocklebur common purslane common ragweed giant ragweed hedge bindweed hemp dogbane jimsonweed kochia ⁽²⁾ morningglory puncturevine sunflower velvetleaf Venice mallow	devilsclaw field bindweed field pennycress marestail (horseweed) marshelder mustard nightshade species Russian thistle volunteer potato ⁽⁴⁾ wild buckwheat	0.4

1. See Weeds Controlled or Suppressed section of this label for a complete listing.
2. Includes herbicide tolerant or resistant biotypes.
3. Suppression is expressed as a reduction in weed competition (reduced population or vigor) as compared to untreated areas. The degree of weed control and duration of effect may vary with weed size, density, application rate, coverage, and growing conditions before, during and after treatment.
4. See Special Directions for Control or Suppression of Volunteer Potato below.

Application Timing

Apply as a broadcast or band treatment to field corn up to, and including, 5 fully exposed leaf collars (V5 growth stage). Do not broadcast apply to field corn with 6 fully exposed leaf collars (V6 growth stage). Applications to field corn beyond the V5 growth stage should be made as a directed spray using drop nozzles (see crop safety precaution below). Apply when broadleaf weeds are actively growing, but before weeds are 8 inches tall. If wild buckwheat is present, apply before vining stage of growth. Only weeds emerged at the time of application will be controlled or suppressed.

- **Pre plant Burndown:** For no-till or burndown applications to control emerged weeds, apply alone or in tank mix combination with a labeled herbicide prior to planting.

Special Directions for Control or Suppression of Volunteer Potato:

- **Preplant Application (Suppression):** Apply 0.4 pint per acre prior to planting corn when the majority of volunteer potato plants are 4 to 8 inches tall. For best results, leave soil undisturbed and plant field corn two weeks following application.
- **Sequential Applications (Control):** To **control** heavy populations of volunteer potato, a preplant application at 0.35 pint per acre may be followed by a postemergence application at 0.35 pint per acre. Do not exceed two applications per year.
- **Postemergence Application (Suppression):** Apply 0.4 pint per acre when the majority of volunteer

potato plants are 4 to 8 inches tall.

Specific Use Restrictions:

- Do not apply more than 0.7 pint (0.25 lb ae/A) of Starane Ultra per acre per year.
- Do not apply more than 0.4 pint (0.14 lb ae/A) of Starane Ultra per acre per application.
- Do not make more than two applications of Starane Ultra per year, not to exceed 0.25 lb ae/A.
- **Preharvest Interval:** Do not allow livestock to graze or harvest forage from treated areas within 47 days of application. Do not apply less than 90 days before harvest of grain and stover.

Crop Tolerance Precaution: Crop injury (stem curvature, stunting, or brace root injury) may occur with some corn hybrids or lines when Starane Ultra is applied as a broadcast treatment. Hybrids or lines that are susceptible to phenoxy injury may also be susceptible to injury from Starane Ultra. Consult current seed corn company herbicide management guides for further information.

Tank Mixing: Starane Ultra may be applied alone or in tank mix combination with other herbicides registered for postemergence application in field corn unless tank mixing with Starane Ultra is specifically prohibited by the label of the tank mix product. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mix. If an adjuvant is added to the spray mixture as a requirement of the tank mix partner, follow label directions for both the tank mix partner and the adjuvant product.

Adjuvants: Generally, this product does not require the use of an adjuvant to achieve satisfactory weed control when applied alone. Adjuvants may be used when required by a tank mix partner. Follow all applicable directions on the label for the tank mix partner. Use of a high quality adjuvant may improve weed control in hot, dry conditions.

Sweet Corn

Apply Starane Ultra as a broadcast postemergence treatment using ground equipment or by air. Starane Ultra may also be applied as a pre plant treatment for control of **emerged** volunteer potato or for burndown of emerged weeds (refer to "Special Directions for Control of Volunteer Potato" below). Refer to the Product Information section of this label for detailed information on application timing, effect of temperature on herbicidal activity, application rates, spray coverage and instructions for spot application. Starane Ultra may be applied in tank mix combination with labeled rates of other registered herbicides. Read and follow all label directions, including applicable use directions, precautions and limitations on each product label.

Weeds Controlled or Suppressed

(Numbers in parentheses (-) refer to footnotes below.)

Key Weeds Controlled ⁽¹⁾	Key Weeds Suppressed ⁽³⁾	Application Rate (pint/acre)
catchweed bedstraw (cleavers) chickweed cocklebur common purslane common ragweed giant ragweed hedge bindweed hemp dogbane jimsonweed kochia ⁽²⁾ morningglory puncturevine	devilsclaw field bindweed field pennycress marestail (horseweed) marshelder mustard nightshade species Russian thistle volunteer potato ⁽⁴⁾ wild buckwheat	0.4

sunflower velvetleaf Venice mallow		
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1. See Weeds Controlled or Suppressed section in product label for a complete listing.
2. Includes herbicide tolerant or resistant biotypes.
3. Suppression is expressed as a reduction in weed competition (reduced population or vigor) as compared to untreated areas. The degree of weed control and duration of effect may vary with weed size, density, application rate, coverage, and growing conditions before, during and after treatment.
4. See Special Directions for Control or Suppression of Volunteer Potato below.

Application Timing

Apply as a broadcast or band treatment to sweet corn up to, and including, 4 fully exposed leaf collars (V4 growth stage). Do not broadcast apply to sweet corn with 5 fully exposed leaf collars (V5 growth stage). Applications to sweet corn beyond the V4 growth stage should be made as a directed spray using drop nozzles (see crop tolerance precaution below). Apply when broadleaf weeds are actively growing, but before weeds are 8 inches tall. If wild buckwheat is present, apply before vining stage of growth. Only weeds emerged at the time of application will be controlled or suppressed.

- **Preplant Burndown:** For no-till or burndown applications to control emerged weeds, apply alone or in tank mix combination with a labeled herbicide prior to planting.

Special Directions for Control or Suppression of Volunteer Potato:

- **Preplant Application (Suppression):** Apply 0.4 pint per acre prior to planting corn when the majority of volunteer potato plants are 4 to 8 inches tall. For best results, leave soil undisturbed and plant sweet corn two weeks following application.
- **Sequential Applications (Control):** To **control** heavy populations of volunteer potato, a preplant application at 0.35 pint per acre may be followed by a postemergence application at 0.35 pint per acre. Do not exceed two applications per year.
- **Postemergence Application (Suppression):** Apply 0.4 pint per acre when the majority of volunteer potato plants are 4 to 8 inches tall.

Specific Use Restrictions:

- Do not apply more than 0.7 pint (0.25 lb ae/A) of Starane Ultra per acre per year.
- Do not apply more than 0.4 pint (0.14 lb ae/A) of Starane Ultra per acre per application.
- Do not make more than two applications of Starane Ultra per year, not to exceed 0.25 lb ae/A.
- **Preharvest Interval:** Do not allow livestock to graze or harvest forage from treated areas within 31 days of application. Do not apply less than 31 days before harvesting ears.

Crop Tolerance Precaution: Not all sweet corn hybrids have been screened for tolerance to Starane Ultra. Crop injury (stem curvature, stunting, brace root injury) may occur with some hybrids or lines when Starane Ultra is applied as a broadcast treatment. Take particular care to manage for environmental conditions such as unfavorable combinations of temperature and humidity. Hybrids or lines that are susceptible to phenoxy injury may also be susceptible to injury from Starane Ultra. Consult current seed corn company herbicide management guides for further information.

Tank Mixing: Starane Ultra may be applied alone or in tank mix combination with other herbicides registered for postemergence application in sweet corn unless tank mixing is specifically prohibited by the label of the tank mix product. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Use of Spray Adjuvants in Tank Mixes: Do not use a spray adjuvant when applying Starane Ultra alone. Use of an adjuvant may increase effectiveness on weeds but may reduce selectivity to the crop, particularly under conditions of plant stress such as drought or cold temperatures. If an adjuvant is added to the spray mixture as a requirement of a tank mix partner, follow all manufacturer's instructions. Do not

apply Starane Ultra in combination with crop oil concentrates, petroleum-based oils or methylated seed oils unless the risk of injury is acceptable.

Grain Sorghum (Milo)

Apply Starane Ultra as a broadcast treatment using ground equipment or by air. See product label for Starane Ultra for detailed information on application timing, effect of temperature on herbicidal activity, application rates, spray coverage and instructions for spot application.

Starane Ultra may be applied in tank mix combination with labeled rates of other herbicides such as atrazine. Read and follow all label directions, including applicable use directions, application timing, precautions and limitations on each product label.

Weeds Controlled or Suppressed

(Numbers in parentheses (-) refer to footnotes below.)

Key Weeds Controlled ⁽¹⁾	Key Weeds Suppressed ⁽³⁾	Application Rate (pint/acre)
cocklebur common ragweed giant ragweed hemp dogbane hedge bindweed kochia ⁽²⁾ morningglory puncturevine sunflower velvetleaf Venice mallow	devilsclaw field bindweed field pennycress marestail (horseweed) mustard nightshade species Russian thistle wild buckwheat	0.4

1. See Weeds Controlled or Suppressed section in product label for a complete listing.

2. Includes herbicide tolerant or resistant biotypes.

3. Suppression is expressed as a reduction in weed competition (reduced population or vigor) as compared to untreated areas. The degree of weed control and duration of effect may vary with weed size, density, application rate, coverage, and growing conditions before, during and after treatment.

Application Timing

- **Pre emergence:** For no-till or burndown applications, apply to emerged weeds after planting, but prior to grain sorghum emergence.
- **Postemergence:** Starane Ultra may be broadcast applied from the 3-leaf growth stage of grain sorghum through the 7-leaf stage. Use drop nozzles and directed spray from the 8-leaf stage to boot stage. Drop nozzles should direct the spray toward the soil surface to avoid contact with grain sorghum foliage and reduce the potential for crop injury. Do not apply after the boot stage.
- For both pre emergence and postemergence applications, apply when weeds are actively growing, but before weeds are 8 inches tall and before wild buckwheat is vining. Only weeds that have emerged at the time of application will be controlled.
- To control heavy weed populations, a pre emergence application may be followed by a postemergent application. Do not exceed two applications per year.

Specific Use Restrictions:

- Do not apply more than 0.7 pint (0.25 lb ae/A) of Starane Ultra per acre per year.
- Do not apply more than 0.4 pint (0.14 lb ae/A) of Starane Ultra per acre per application.
- Do not make more than two applications of Starane Ultra per year, not to exceed 0.25 lb ae/A.
- **Pre harvest Interval:** Do not allow livestock to graze or harvest forage within 40 days of application. Do not apply within 70 days of harvesting grain or stover.

Tank Mixing: Starane Ultra may be applied alone or in tank mix combination with other herbicides registered for postemergence application in grain sorghum unless tank mixing is specifically prohibited by the label of the tank mix product. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture. Do not apply in combination with Ally XP Herbicide (metsulfuron methyl; EPA Reg. No.: 279-9575).

Adjuvants: Generally, this product does not require the use of an adjuvant to achieve satisfactory weed control when applied alone. Adjuvants may be used when required by a tank mix partner. Follow all applicable directions on the label for the tank mix partner. Use of a high quality adjuvant may improve weed control under hot, dry conditions.

Dry Bulb Onion

(Only Registered for Use in Colorado, Idaho, Oregon, Washington, Michigan, Texas, Utah, Nevada and Wisconsin)

Apply Starane Ultra as a broadcast postemergence treatment using ground equipment or by air. Refer to the Product Information section of this label for detailed information on application timing, effect of temperature on herbicidal activity, application rates, spray coverage and instructions for spot application. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Weeds Controlled or Suppressed

(Numbers in parentheses (-) refer to footnotes below.)

Key Weeds Controlled ⁽¹⁾	Key Weeds Suppressed ⁽³⁾	Application Rate (pint/acre)
chickweed common purslane common ragweed common sunflower kochia ⁽²⁾ morningglory Venice mallow	volunteer potato	0.35

1. See Weeds Controlled or Suppressed section of this label for a complete listing.

2. Includes herbicide tolerant or resistant biotypes.

3. Suppression is expressed as a reduction in weed competition (reduced population or vigor) as compared to untreated areas. The degree of weed control and duration of effect may vary with weed size, density, application rate, coverage, and growing conditions before, during and after treatment.

Application Timing

Chickweed, common purslane, common ragweed, common sunflower, morningglory, volunteer potatoes, Venice mallow, and other susceptible target weeds should be less than 8 inches tall for optimum control. For optimum control of kochia, target seedlings that are 1 to 4 inches in size.

Broadcast (over-the-top) application may be made to dry bulb onions from the 2 true leaf stage through the 6-leaf stage. Application to dry bulb onions beyond the 6-leaf stage should be made as a directed spray using drop nozzles (see crop injury warning below). Do not apply as a broadcast over-the-top spray after the 6-leaf stage of growth.

Sequential Applications: To control heavy populations or successive flushes of kochia, volunteer potatoes, or other susceptible broadleaf weeds, two postemergence applications can be made on a 10- to 14-day re-treatment interval. Do not make more than two applications per year.

Crop Injury Warning: Crop injury such as but not limited to leaf twisting may occur with some onion cultivars when Starane Ultra is applied as a broadcast treatment, especially when applications are made to larger dry bulb onions. Do not use Starane Ultra if the risk of injury is unacceptable.

Specific Use Restrictions:

- Do not allow livestock to graze treated areas or harvest treated forage within 7 days of application.
- **Preharvest Interval (PHI):** Do not apply within 42 days of onion harvest.
- Do not apply more than 0.7 pint (0.25 lb ae/A) of Starane Ultra per acre per year.
- Do not apply more than 0.35 pint (0.12 lb ae/A) of Starane Ultra per acre per application.
- Do not make more than two applications of Starane Ultra per year, not to exceed 0.25 lb ae/A.
- **Plant-Back Restriction:** Plant only labeled crops within 120 days of application.
- **Chemigation:** Do not apply through any type of irrigation system.
- Do not apply Starane Ultra when furrow irrigation is running. Manage treated fields to avoid water runoff for at least 6 hours after application.

Tank Mixing: Tank mix combinations with other herbicides registered for use in dry bulb onions may result in unacceptable crop injury.

Adjuvants: Adjuvants are not recommended with Starane Ultra applications in dry bulb onions.

Fallow Cropland

Apply as a single broadcast treatment by ground or aerial equipment to control susceptible broadleaf weeds. Apply when weeds are actively growing, but before kochia is 8 inches tall and before wild buckwheat is vining. Starane Ultra may be applied alone or in tank-mix combination with other herbicides (See tank mixing precautions in "Mixing Instructions" section.)

Broadcast Application Rates:

Weed Size or Species ¹	Application Rate (pint/acre)
Susceptible broadleaf weed seedlings less than 8 inches tall or vining Volunteer potatoes	0.4 - 0.7

¹See Weeds Controlled or Suppressed section for a complete listing of weeds controlled or suppressed.

Control may be reduced if weeds are under stress from drought or extreme temperatures. Use lower rates to control light to moderate infestations and under good growth conditions. Use higher rates for moderate to heavy infestations and to compensate for less than ideal growth conditions.

Specific Use Restrictions

- Do not apply more than 0.7 pint (0.25 lb ae/A) of Starane Ultra per acre per year.
- Do not apply more than 0.7 pint (0.25 lb ae/A) of Starane Ultra per acre per application.
- Do not make more than two applications of Starane Ultra per year, not to exceed 0.25 lb ae/A.

Grasses Grown for Seed, Forage or Hay

Starane Ultra may be applied for broadleaf weed control in the following grasses grown for seed, forage or hay: bermudagrass, bluegrass (perennial and annual), bromegrass, fescue, hay grazer, orchardgrass, ryegrass (perennial and annual), redtop cane, sorghum, sorghum-Sudan, Sudan, sudex, and timothy. **Starane Ultra may be applied for broadleaf weed control in the following grasses grown for hay or forage only:** sorghum, and triticale.

Apply Starane Ultra as a broadcast postemergence treatment using ground equipment or by air. A second application may be made a minimum of 14 days after the first. It is the pesticide user's

responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Application Timing: Apply to established grasses in the spring when weeds are actively growing and before weeds are 8 inches tall. Only weeds emerged at the time of treatment will be controlled. New plantings of grass crops may be treated from the 2 true leaf stage of growth prior to early boot stage. Do not apply during boot, flowering, or seed development stage of growth if grass crop is to be harvested for seed.

Broadcast Application Rates: (Numbers in parentheses (-) refer to footnotes following table.)

Weed Size or Species ⁽¹⁾	Application Rate (pint/acre)
Susceptible broadleaf weed seedlings less than 4 inches tall ⁽²⁾	0.3
Susceptible broadleaf weed seedlings less than 8 inches tall or vining	0.4

1. Refer to the Weeds Controlled or Suppressed section in the label booklet for Starane Ultra for a complete listing of weeds controlled or suppressed.
2. The 0.3 pint/acre rate will generally provide satisfactory control of kochia seedlings less than 4 inches tall (including ALS resistant biotypes). However, when conditions for control are less favorable, such as under drought or cool temperatures, the 0.4 pint/acre rate will provide more consistent control of kochia seedlings 1 to 4 inches tall. Control of small kochia with reduced rates will be more consistent if kochia is at least 1 inch tall. The 0.4 pint/acre rate should be used for optimal control of dicamba tolerant kochia populations (see Management of Kochia Biotypes in the Product Information section of the label booklet for Starane Ultra.

Specific Use Restrictions:

- Do not apply more than 0.7 pint (0.25 lb ae/A) of Starane Ultra per acre per year.
- Do not apply more than 0.4 pint (0.14 lb ae/A) of Starane Ultra per acre per application.
- Do not make more than two applications of Starane Ultra per year, not to exceed 0.25 lb ae/A.
- **Grazing restrictions:** There are no grazing restrictions for lactating or non-lactating dairy animals.
- **Harvest restrictions:** Do not harvest grass for hay or silage from treated areas within 7 days of application.
- **Slaughter restrictions:** Meat animals must be withdrawn from treated forage at least 2 days before slaughter.

Millet Grown for Grain, Forage or Hay

Starane Ultra may be applied for broadleaf weed control in millet grown for grain, forage or hay.

Apply Starane Ultra as a broadcast postemergence treatment using ground equipment or by air. A second application may be made a minimum of 14 days after the first. Starane Ultra may be applied in tank mix combination at labeled rates with other herbicides registered for these uses. All applicable use directions, precautions and limitations on the labels of the tank mix products must be followed. When tank mixing, the most restrictive limitations on each label must apply.

Application Timing: Apply to millet in the spring when weeds are actively growing and before weeds are 8 inches tall. Only weeds emerged at the time of treatment will be controlled. New plantings of millet may be treated from the 2 true leaf stage of growth prior to early boot stage. Do not apply during boot, flowering, or seed development stage of growth if millet is to be harvested for seed.

Broadcast Application Rates: (Numbers in parentheses (-) refer to footnotes following table.)

Weed Size or Species ⁽¹⁾	Starane Ultra (pt/acre)
Susceptible broadleaf weed seedlings less than 4 inches tall ⁽²⁾	0.3
Susceptible broadleaf weed seedlings less than 8 inches tall or vining	0.4

1. Refer to the Weeds Controlled or Suppressed section in the label booklet for Starane Ultra for a complete listing of weeds controlled or suppressed.

2. The 0.3 pint/acre rate will generally provide satisfactory control of kochia seedlings less than 4 inches tall (including ALS resistant biotypes). However, when conditions for control are less favorable, such as under drought or cool temperatures, the 0.4 pint/acre rate will provide more consistent control of kochia seedlings 1 to 4 inches tall. Control of small kochia with reduced rates will be more consistent if kochia is at least 1 inch tall. The 0.4 pint/acre rate should be used for optimal control of dicamba tolerant kochia populations (see Management of Kochia Biotypes in the General Information section of the label booklet for Starane Ultra).

Specific Use Restrictions:

- Do not apply more than 0.7 pint (0.25 lb ae/A) of Starane Ultra per acre per year.
- Do not apply more than 0.4 pint (0.14 lb ae/A) of Starane Ultra per acre per application.
- Do not make more than two applications of Starane Ultra per acre per year, not to exceed 0.25 lb ae/A.
- **Grazing restrictions:** There are no grazing restrictions for lactating or non-lactating dairy animals.
- **Preharvest Interval:** Do not harvest millet hay within 14 days of application or millet grain and straw within 40 days of application.
- **Slaughter restrictions:** Meat animals must be withdrawn from treated forage at least 3 days before slaughter.

On-Farm Non-Cropland

Apply as a single broadcast treatment or spot treatment to control susceptible broadleaf weeds in on-farm non-cropland areas such as fencerows, building perimeters, around irrigation equipment and on-farm private roadways. Apply at the rate of 0.4 to 0.7 pints per acre when weeds are small and actively growing, but before weeds are 8 inches tall or vining. Spot treatments should be applied at rates and spray volumes equivalent to broadcast application. See instructions for "Spot Application" in "Application Directions" section. See "Weeds Controlled or Suppressed" section for a complete listing of weeds controlled or suppressed.

Specific Use Restrictions:

- Do not apply more than 0.7 pint (0.25 lb ae/A) of Starane Ultra per acre per year.
- Do not apply more than 0.7 pint (0.25 lb ae/A) of Starane Ultra per acre per application.
- Do not make more than two applications of Starane Ultra per acre per year, not to exceed 0.25 lb ae/A.

CRP Acres

Do not use on CRP acres that are underseeded with desirable legumes, clovers, or other sensitive broadleaf plants.

Starane Ultra may be applied to Conservation Reserve Program (CRP) acres. For best results, apply as a single broadcast treatment by ground or aerial equipment to control susceptible broadleaf weeds. Apply at the rate of 0.4 to 0.7 pints per acre when weeds are small and actively growing, but before weeds are 8 inches tall or vining. Spot treatments should be applied at rates and spray volumes equivalent to broadcast application. See instructions for Spot Application in Application Directions section. See Weeds Controlled or Suppressed section for a complete listing of weeds controlled or suppressed.

Specific Use Restriction:

- Grazing or haying of treated CRP acres is prohibited.
- Do not apply more than 0.7 pint (0.25 lb ae/A) of Starane Ultra per acre per year.
- Do not apply more than 0.7 pint (0.25 lb ae/A) of Starane Ultra per acre per application.
- Do not make more than two applications of Starane Ultra per acre per year, not to exceed 0.25 lb ae/A.

Pome Fruits

(Including but not limited to: Apple, Crabapple, Loquat, Mayhaw, Oriental Pear, Pear, Quince)

Apply Starane Ultra uniformly with ground equipment in a minimum of 10 gallons of water per acre. Apply during calm periods and when air temperatures are between 50° F and 80° F. Avoid contact with foliage. If Starane Ultra accidentally contacts the tree foliage, the leaves and the affected section of the tree may show symptoms or die but the remainder of the tree will not be affected.

Tank Mixtures: Starane Ultra may be tank mixed with other herbicides labeled for use on pome fruit. Follow the Directions for Use of the labeling for any tank mix partner used in tank mixture with this product.

Weeds Controlled or Suppressed

(Numbers in parentheses (-) refer to footnotes):

Weeds Controlled			Weeds Suppressed ⁽³⁾
0.4 - 0.7 pt/acre	0.7 pt/acre	1.4 pt/acre	1.4 pt/acre
bedstraw (cleavers) common purslane hairy buttercup hemp dogbane kochia ^{(1), (2), (4)} marshelder ⁽²⁾ sericea lespedeza tropic croton	chickweed cocklebur coffeeweed, common ragweed curly dock cutleaf primrose dandelion dogfennel grape horsetweed/marestail morningglory prickly lettuce puncturevine stinging nettle sunflower vetch velvetleaf Venice mallow western ragweed white clover white cockle	blackberry catsear giant ragweed goldenrod henbane hop clover horsenettle ironweed lantana musk thistle spotted knapweed wild carrot	buckhorn plantain Carolina geranium common mallow common mullein cudweed field bindweed field horsetail field pennycress knotweed leafy spurge mustard narrowleaf plantain nightshade species spiny amaranth wild buckwheat yellow thistle

(1) Includes herbicide tolerant or resistant biotypes.

(2) Use the higher rate in the range to control these weeds.

(3) Suppression is expressed as a reduction in weed competition (reduction population or vigor) as compared to untreated areas. The degree of weed control and duration of effect may vary with weed size, density, application rate, coverage, and growing conditions before, during and after treatment.

(4) For control of larger kochia at more advanced growth stages, increase the rate per acre of Starane Ultra herbicide to 0.8 to 1.1 pints or tank mix with 1-2 quarts per acre of 2,4-D and 1-2 quarts per acre of methylated seed oil.

Specific Use Restrictions:

- Do not apply more than 1.4 pints (0.49 lb ae/A) of Starane Ultra per acre per year.
- Do not apply more than 1.4 pints (0.49 lb ae/A) of Starane Ultra per acre per application.
- Do not make more than two treatments of Starane Ultra per crop per year, not to exceed 1.4 pints (0.49 lb ae/A).
- **Preharvest interval:** Do not apply within 14 days of harvest.
- Do not apply Starane Ultra to trees less than 4-years-old.
- Do not apply Starane Ultra during bloom.

Terms and Conditions of Use

If terms of the following Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies are not acceptable, return unopened package at once to the seller for a full refund of purchase price paid. To the extent consistent with applicable law, use by the buyer or any other user constitutes acceptance of the terms under Warranty Disclaimer, Inherent Risks of Use and Limitations of Remedies.

Warranty Disclaimer

Corteva Agriscience warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions for use, subject to the inherent risks set forth below. To the extent consistent with applicable law, Corteva Agriscience MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

Inherent Risks of Use

It is impossible to eliminate all risks associated with use of this product. Crop injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label, such as unfavorable temperatures, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of Corteva Agriscience or the seller. To the extent consistent with applicable law, Corteva Agriscience will not be responsible for losses or damages resulting from the use of this product in any manner not specifically directed by Corteva Agriscience. To the extent consistent with applicable law, all such risks associated with non-directed use shall be assumed by buyer and/or user.

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To the extent consistent with applicable law, the exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, tort, strict liability, or other legal theories), shall be limited to, at Corteva Agriscience's election, one of the following:

- (1) Refund of purchase price paid by buyer or user for product bought, or
- (2) Replacement of amount of product used.

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