

**SPECIMEN
LABEL**

Maxunitech TDZ 4SC Cotton Defoliant

For Agricultural Use Only

ACTIVE INGREDIENT:

Thidiazuron (N-phenyl-N'-1,2,3-thiadiazol-5-ylurea)*40.93%

OTHER INGREDIENTS:59.07%

TOTAL:100.00%

*Contains 4.0 lbs. of thidiazuron per gallon

**KEEP OUT OF REACH OF CHILDREN
CAUTION / PRECAUCIÓN**

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.)

EPA Reg. No. 95009-4



Manufactured for:
Maxunitech North America, Inc.
11601 Shadow Creek Parkway
Suite 111-573
Pearland, TX 77584

FIRST AID

IF SWALLOWED:

- Call poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- **Do not** induce vomiting unless told to do so by a poison control center or doctor.
- **Do not** give anything by mouth to an unconscious person.

IF ON SKIN OR CLOTHING:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15 to 20 minutes.
- Call a poison control center or doctor for treatment advice.

HOTLINE NUMBER

Have the product container or label with you when calling a poison control center or doctor or going for treatment. For information on this pesticide product (including general health concerns or pesticide incidents), call the National Pesticide Information Center at 1-800-858-7378, Monday through Friday, 8:00 AM to 12 PM Pacific Standard Time. In the event of a medical emergency, call your poison control center at 1-800-222-1222.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION/ PRECAUCIÓN

Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes, and clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical resistant gloves made of Barrier Laminate, Butyl Rubber \geq 14 mils, Nitrile Rubber \geq 14 mils, Neoprene Rubber \geq 14 mils, Polyvinyl Chloride (PVC) \geq 14 mils or Viton \geq 14 mils
- Shoes plus socks

See Engineering Controls for requirements

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

Pilots must use an enclosed cockpit that meets the requirements listed in the WPS for agricultural pesticides [40 CFR 170.607(f)].

USER SAFETY RECOMMENDATIONS

Users should:

- 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 washwater. Do not apply when weather conditions favor drift from treated areas.

This product may contaminate water through drift of 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 groundwater. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

PHYSICAL OR CHEMICAL HAZARDS

Do not mix or allow coming into contact with oxidizing agents. Hazardous chemical reaction may occur.

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 state or tribal 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 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water is: coveralls, chemical resistant gloves, and shoes plus socks.

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.

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.

PRODUCT INFORMATION

This product provides growers a tool to help in the harvest of cotton. This product is a suspension concentrate that readily disperses in water for use in various types of application equipment. Applications by ground or air of this product just prior to harvest cause the leaves to fall off the plants (defoliation) and inhibit additional plant growth. This effect helps to reduce any staining of lint that occurs during harvest and ginning.

The effects of this product may not be seen for several days after treatment. Cooler weather or other adverse conditions will require an adjustment in the dose level (i.e., higher rates) or require longer periods of time for defoliation to occur.

SPRAY DRIFT MANAGEMENT

- Use a nozzle that produces medium spray or coarser spray according to ASABE (ANSI/ASAE) standard S572 for both ground and aerial application.
- When using ground application, apply with nozzle height no more than 2 feet above the ground or crop canopy.
- For both aerial and ground application, do not apply when wind speeds exceed 10 miles per hour at the application site.
- Do not spray via ground or aerial application equipment during temperature inversions.
- 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 or 90% of the rotor blade diameter.
 - 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 sections 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 volumes.*
- *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 with 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 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 indicated 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.

USE PRECAUTIONS

A rain event occurring within 24 hours of application will reduce the effectiveness of this product. Spray drift to non-target crops can cause crop injury or defoliation.

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.

Mixtures with organophosphates can increase non-target crop phytotoxicity.

RESTRICTIONS

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

Do not feed gin trash, treated foliage or immature crops to livestock. Pre-harvest interval (PHI): 5 days

Additional drift reduction practices to reduce the potential for off-site spray drift to non-target crops sensitive to this product:

- Do not make ground applications of this product within 100 feet of growing lettuce.
- Do not make aerial applications of this product within 1/2 mile of growing lettuce.
- **Citrus Areas in the Rio Grande Valley of Texas:** Do not make aerial applications of this product when citrus are in flush (burst of new growth, as in springtime) within 5 miles downwind of the point of application. Do not make ground applications of this product when citrus are in flush within 1/2 mile downwind of the application point.

ROTATIONAL CROP RESTRICTIONS: Do not replant the following crops unless the minimum specified plantback interval has elapsed after the last application of this product.

ROTATION CROP	PLANTBACK INTERVAL
Small grains, sorghum, corn, or root crops (except carrots, onions or sugar beets)	Two (2) weeks
Legumes (including alfalfa) or leafy vegetables (except lettuce)	Two (2) months
Sugar beets	Four (4) months
Carrots, onions and spinach	Nine (9) months
Lettuce (replant ONLY if the soil has been deep-plowed down to 12-15 inches.)	Nine (9) months

USE INSTRUCTIONS

APPLICATION TIMING

Make applications of this product only to mature cotton plants and when bolls are mature. Bolls are considered mature when the following are observed: 1) the boll does not dent when squeezed between thumb and finger; and/or 2) the boll is difficult to cut using a sharp knife; and/or 3) the seeds have fully developed cotyledons (determined by the fact that the seeds lack liquid within the seed coat if cut in cross section or if the outer edges of the seed coat are light brown).

Make product applications at least five (5) days before the expected day of harvest.

Note: The success of this product as a cotton defoliant depends on the following factors:

- Cotton plants are actively growing.
- Humid weather conditions exist.
- Cotton plant leaves have high moisture content.

APPLICATION CONDITIONS

If temperatures at night fall below 60°F, this product applied as a stand-alone product (i.e., without a tank mix partner), may give inconsistent or ineffective defoliation and/or regrowth suppression. Improved performance of this product is achieved when application is timed so that overnight temperatures exceed 60°F for 2-3 days prior to and following application.

Applications of this product to heat- and/or drought-stressed cotton (low leaf moisture content, thick cuticle) may result in reduced defoliation and reduced regrowth suppression.

FOLLOW UP PRODUCT APPLICATIONS

To avoid reduced or unsatisfactory defoliation, make a second application of this product only if the first application was made as a stand-alone or as a tank mix with other defoliant. Also refer to the APPLICATION CONDITIONS section of this label.

USE OF CROP OIL/ADJUVANTS

Improved defoliation and regrowth suppression has been shown when crop oil concentrates (COC's) or penetrating oils approved for use on agricultural crops are mixed with this product and applied when nighttime temperatures are low (60-65°F) or when treating drought-stressed cotton. Consult the adjuvant label for use directions and rates.

Use adjuvants to improve spray deposition when applying this product in the desert Southwest (i.e., Arizona and California).

Note: The use of adjuvants can cause substantial desiccation during periods of high temperatures. If the potential for enhanced leaf sticking is a concern, do not use adjuvants that will desiccate leaf tissue.

MIXING INSTRUCTIONS

1. Add one-half the amount of water required to the spray tank.
2. Begin agitation and add this product.
3. Fill the spray tank with the remainder of the water.
4. Maintain agitation throughout application.

Prepare only the amount of spray solution needed for a single day of application. **Do not** allow the spray tank mixture to stand overnight.

TANK MIX ADJUVANTS

To improve defoliation and spray tank clean-out, add a compatibility agent or surfactant approved for use on agricultural crops to tank mixes of this product with organophosphate defoliants. Conduct a compatibility test of all components before adding to the spray tank.

Consult the adjuvant label for mixing and application directions and use rates.

APPLICATION

Apply the specified amount of this product in sufficient volume of water to ensure uniform and thorough coverage of the leaves. Ground equipment: apply 10-25 gallons per acre. Aerial applications: apply 3-10 gallons per acre.

Ensure adequate agitation is maintained during application.

APPLICATION RATES

For defoliation of rank cotton, make a second application to ensure adequate defoliation. **Do not** make more than two applications and **do not** exceed a total of 9.6 fl oz/A (0.3 lb a.i./A) per year.

Use Rate Information (under normal conditions):

- Single application rate: 4.0 fl oz/A (0.125 lb a.i./A)
- Maximum of 2 applications, but not to exceed 9.6 fl oz/A (0.3 lb a.i./A) per year

Use Rate Information (under variable conditions):

- Maximum single application rate of 6.4 fl oz/A (0.2 lb a.i./A)
- Maximum of 2 applications, but not to exceed 9.6 fl oz/A (0.3 lb a.i./A) per year

For cutout and mature cotton under normal weather patterns, use this product at 1.6 to 3.2 fl oz/A (0.05 to 0.10 lb a.i./A). The 1.6 fl oz (0.05 lb a.i.) rate is most effective when used in a tank mix with other cotton defoliating products.

Increase rates of this product above 3.2 fl oz/A (0.10 lb a.i./A) 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 temperatures (60-65°F), and on full-season cotton varieties.

To Achieve an Application Rate of:	Use This Amount of Product	At the Indicated Rate, One Gallon of Product Will Treat:
0.07 lb a.i./Acre	2.3 fl oz/A	56 Acres
0.17 lb a.i./Acre	5.4 fl oz/A	23.5 Acres
0.2 lb a.i./Acre	6.4 fl oz/A	20 Acres

ARIZONA ONLY - BOTTOM DEFOLIATION

Use this product as an aid to improve air circulation within the cotton canopy and reduce boll rot and hard lock caused by moisture under the canopy.

Time the date of application so that application equipment can enter the fields without causing damage to the cotton crop.

Apply this product at a rate of 1.6 fl oz/A (0.05 lb a.i./A); direct the sprays to the lower 1/3 part of the plants.

ARIZONA AND CALIFORNIA ONLY: PRECONDITIONING

Apply this product as a preconditioner seven to ten days prior to application of other defoliant compounds to enhance defoliation. Consult the label of the other defoliant prior to use and observe all product label directions.

Apply this product at rates of 1.6 – 3.2 fl oz/A (0.05 - 0.1 lb a.i./A).

TANK MIXES

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.

Maxunitech TDZ 4SC Cotton Defoliant Plus Ethephon-Containing Product – Boll Opening

Use this product in a tank mix with an appropriately labeled ethephon product as an aid to improve defoliation and speed the opening of mature bolls. For best results, apply to mature cotton plants (refer to the APPLICATION TIMING section of this label). Ensure a sufficient number of bolls have matured prior to application in order to achieve good cotton yields. Certified cottonseed producers should consult seed companies to determine the boll and seed maturity requirements for their varieties. Low nighttime temperatures (below 60°F) may cause reduced defoliation or reduced regrowth suppression.

Apply this product at rates of 1.6 – 6.4 fl oz/A (0.05 - 0.2 lb a.i./A) plus the labeled rate for the ethephon product.

Use the higher rates of Maxunitech TDZ 4SC Cotton Defoliant when excessive regrowth is expected or when temperatures are between 60-65°F.

Maxunitech TDZ 4SC Cotton Defoliant Plus Ethephon - Enhanced Defoliation

Use the lower rates of an appropriately labeled ethephon product plus this product to enhance defoliation without providing boll opening activity. Following this tank mix application, use an appropriately labeled ethephon product alone as a sequential treatment to promote boll opening but do not exceed labeled rates for all ethephon applications to cotton. Read and follow the label directions for all tank mix products.

Apply this product at rates of 1.6 - 6.4 fl oz/A (0.05 - 0.2 lb a.i./A) plus labeled ethephon product rates. Use the higher rates of this product when excessive regrowth is expected or when temperatures are between 60-65°F.

Maxunitech TDZ 4SC Cotton Defoliant Plus Tribufos – Not for Use in Cameron, Hidalgo, Starr and Willacy Counties of the State of Texas

Use this product in a tank mix with an appropriately labeled tribufos product to improve defoliation and regrowth suppression under less than ideal conditions, such as when overnight temperatures are expected to be below 60°F on the day of application and for three consecutive days after application. For optimum results, apply the tank mix to mature cotton plants with at least 60% open bolls.

Apply this product at rates of 1.6 - 6.4 fl oz/A (0.05 - 0.2 lb a.i./A) plus the labeled rates of the tribufos product. Use the higher rates of Maxunitech TDZ 4SC Cotton Defoliant when excessive regrowth is expected.

Use the lower labeled rates of the appropriately labeled tribufos product when nighttime temperatures are expected to be 65°F or above. Use the higher rates when conditions are not ideal.

If a second application of this tank mix is necessary, do not exceed a total of 9.6 fl oz/A of Maxunitech TDZ 4SC Cotton Defoliant (0.3 lb a.i./acre) per year.

Read and follow the tribufos product label directions.

Note: The application of tank mixes of organophosphate defoliant plus this product at the highest use rates may cause desiccation during periods of high temperatures.

Preparation of Tank Mixes of this Product Plus Tribufos

1. Add one-half the amount of water required to the spray tank.
2. Begin agitation and add the required amount of this product.
3. Maintain agitation and add the remainder of the water.
4. Once Maxunitech TDZ 4SC Cotton Defoliant is completely dispersed, add the required amount of the appropriately labeled tribufos product to the spray tank.

SPRAY TANK CLEANOUT INSTRUCTIONS

IMPORTANT: Residues form in the spray equipment of tank mixes of this product plus organophosphates. The residues can be removed using a commercial tank cleaner as long as the spray equipment is cleaned while the residue is still fresh and moist. **DO NOT ALLOW SPRAY EQUIPMENT TO DRY BEFORE CLEANING.** Consult your State Extension Cotton Specialist for instructions tank cleaners and cleaning procedures.

Immediately after application, flush the entire system (nozzles, booms, application tanks, sumps, pumps, and transfer lines, etc.) using a tank cleaner and water.

Should the spray solution be allowed to dry in the application equipment, the residues will be more difficult to remove. Use the commercial tank cleaner diluted with water to completely fill the equipment and let it stand for 7 days. Then, completely flush and rinse all equipment with water.

If spray application equipment is not thoroughly cleaned, residues of this product will remain and be released during subsequent applications and lead to crop damage.

To the extent consistent with applicable law, Maxunitech North America, Inc. assumes no liability for crop damage due to spray equipment that has not been properly cleaned before re-use.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store product at temperature less than 100°F. Re-mix product prior to use if product is exposed to freezing conditions.

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

CONTAINER HANDLING:

NONREFILLABLE CONTAINER (EQUAL TO OR LESS THAN 5 GALLONS): Do not reuse or refill this container. Triple 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 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. Offer for recycling, if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

LIMITATION OF WARRANTY AND LIABILITY

Read the entire directions for use, conditions of warranties and limitations of liability before using this product. If terms are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following **CONDITIONS, DISCLAIMER OF WARRANTIES and LIMITATIONS OF LIABILITY. CONDITIONS:** The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Maxunitech North America, Inc. To the extent consistent with applicable law, all such risks shall be assumed by the user or buyer. **DISCLAIMER OF WARRANTIES:** To the extent consistent with applicable law, Maxunitech North America, Inc. makes no other warranties, express or implied, of merchantability or of fitness for a particular purpose or otherwise, that extend beyond the statements made on this label. No agent of Maxunitech North America, Inc. is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. To the extent consistent with applicable law, Maxunitech North America, Inc. disclaims any liability whatsoever for special, incidental or consequential damages resulting from the use or handling of this product. **LIMITATIONS OF LIABILITY:** To the extent consistent with applicable law, the exclusive remedy of the user or buyer for any and all losses, injuries or damages resulting from the use or handling of this product, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price paid or at Maxunitech North America, Inc. election, the replacement of product.

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