

Export of Treated Produce

Growers should note that suitable MRLs or import tolerances may not be established in all markets for produce treated with eChem Thidiazuron 500 SC Liquid. If you are growing produce for export, please check with eChem (Australia) Pty Ltd for the latest information on MRL's and import tolerances BEFORE using eChem Thidiazuron 500 SC Liquid.

GENERAL INSTRUCTIONS:

eChem Thidiazuron 500 SC Liquid is an odourless, non-corrosive defoliant/harvest aid. After treatment with eChem Thidiazuron 500 SC Liquid, leaves fall while still green so that there is minimal dry leaf trash to contaminate fibre or interfere with harvesting. Maximum defoliation occurs 7 to 21 days following application of eChem Thidiazuron 500 SC Liquid. Good control of regrowth is seen when eChem Thidiazuron 500 SC Liquid is used at rates over 100 mL/ha. Defoliation will be slower under average conditions, or when the crop is not physiologically mature.

Note

Rainfall within 24 hours after application will reduce the effectiveness of eChem Thidiazuron 500 SC Liquid; re-treatment may be necessary. Crops with moderate to high levels of nitrogen remaining in the soil are more prone to leaf freezing than crops that have depleted soil nitrogen.

Tank mixes of eChem Thidiazuron 500 SC Liquid with organophosphates may form a residue in application equipment. While still fresh and moist, this residue is easily removed by flushing the entire system with a commercial tank cleaner.

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

Should any residue of eChem Thidiazuron 500 SC Liquid remain in the sprayer system, it may be released during subsequent applications of other products, causing damage to crops.

Mixing

Add the required amount of eChem Thidiazuron 500 SC Liquid straight into the partly filled spray tank or mixing vat with agitator running, followed by e-Tron Cotton Defoliant Oil, and then add the rest of the water. Keep mixture agitated while spraying. Use only freshly prepared sprays. **Do NOT store spray mixture overnight.** When tank mixing with emulsifiable concentrates (EC), add eChem Thidiazuron 500 SC Liquid to the half filled spray tank or mixing vat and agitate thoroughly. With agitator running, add the EC product, followed by e-Tron Cotton Defoliant Oil. Keep mixture agitated while spraying.

Application

Apply as a uniform spray ensuring thorough coverage of the whole plant.

Equipment

AIRCRAFT

Apply by aircraft in 20 to 40L/ha spray mixture and ensure thorough coverage.

A steady cross wind is recommended for best penetration. Do not exaggerate swath width.

GROUND SPRAYERS

Standard boom sprayers are recommended and must be fitted with mechanical or by-pass agitation. Use sufficient water to obtain complete coverage of all leaves, i.e. at least 90 to 100 litres of water per hectare. Good coverage should be obtained with three or more nozzles per row depending upon crop height and canopy density. A nozzle configuration including droppers will give maximum coverage in dryland crops, taking particular care to ensure thorough but even coverage. Overdosing on some plant parts, eg. nozzle overlap along the sides of plants, may cause localised leaf freezing. If band spraying dryland crops, care should be taken when calculating the actual applied rate of eChem Thidiazuron 500 SC Liquid per sprayed hectare.

Compatibility

eChem Thidiazuron 500 SC Liquid is compatible in tank mixtures with ethephon and dimethoate. CAUTION: When tank mixed with glyphosate, a higher proportion of cotton leaf may be retained (freezing). Do NOT use this mixture on stressed cotton, particularly drought-affected cotton.

PRECAUTIONS

Do not use human flagging unless flaggers are protected by engineering controls such as vehicles with cabs.

Re-entry Period

Do not allow entry into treated areas until spray has dried. When prior entry is necessary, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and chemical resistant gloves. Clothing must be laundered after each day's use.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

DO NOT allow spray drift to contact trees or crops other than cotton, as this product may injure or defoliate other crops, particularly citrus, grapevines and lettuce.

To help reduce drift damage potential:

- DO NOT apply eChem Thidiazuron 500 SC Liquid by air when citrus in flush is within 8 km downwind from the point of application.
- DO NOT apply eChem Thidiazuron 500 SC Liquid by air when within 800m of lettuce.

In addition:

- DO NOT plant lettuce or carrots in cotton fields where eChem Thidiazuron 500 SC Liquid has been applied within the previous 9 months.
- DO NOT plant legumes, lucerne, other root crops or leafy vegetables (besides those noted above) in cotton fields where eChem Thidiazuron 500 SC Liquid has been applied within the previous two months.
- DO NOT plant small grains, sorghum or corn in cotton fields where eChem Thidiazuron 500 SC Liquid has been applied within the previous two weeks.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Do not contaminate streams, rivers or waterways with the chemical or used container.

STORAGE AND DISPOSAL:

KEEP OUT OF REACH OF CHILDREN. Store in the closed, original container in a dry, cool, well-ventilated area out of direct sunlight. Triple-rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush, or puncture and deliver empty packaging for appropriate disposal to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots, in compliance with relevant local, state or territory government regulations. Do not burn empty containers or product.

SAFETY DIRECTIONS:

May irritate the eyes. Avoid contact with eyes. When opening the container and preparing spray, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and elbow length PVC gloves. After each day's use, wash gloves and contaminated clothing. Wash hands after use.

FIRST AID:

First aid is not generally required. If in doubt, contact a doctor or Poisons Information Centre (phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

SDS

Additional information is listed in the safety data sheet (SDS), which can be obtained from eChem (Australia) Pty Ltd.

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

eChem THIDIAZURON 500 SC

LIQUID COTTON DEFOLIANT

ACTIVE CONSTITUENT: 500 g/L THIDIAZURON

For the defoliation of cotton prior to harvest.

CONTENTS: 1, 2.5, 5L

APVMA Approval No: 55963/140578

eChem (Australia) Pty Ltd

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DIRECTIONS FOR USE: (For use in Qld, NSW, WA only)

RESTRAINTS

DO NOT apply eChem Thidiazuron 500 SC Liquid when night temperatures fall below 12°C.

DO NOT apply eChem Thidiazuron 500 SC Liquid following application of sodium chlorate, magnesium chlorate or diquat.

CROP/SITUATION	DEFOLIATION CONDITIONS	RATE/HA	CRITICAL COMMENTS
Cotton/ Defoliation – First or second spray	IDEAL Conditions are hot to warm (30 to 35°C daytime temperature) and the crop is ready to be defoliated with natural senescence already occurring. Nitrogen and water are almost depleted and there is little or no top growth. A good fruit load is set.	50 to 100mL plus the recommended label rate of e-Tron, Hasten Spray Adjuvant or other spray oil of equivalent specifications registered for cotton.	Apply the first spray to cotton which has been grown under good (non-stressed) conditions and is physiologically mature i.e., when the top harvestable boll is mature. Application made prior to boll maturity may result in yield and quality reductions. <ul style="list-style-type: none">Use the lower rates of 50 – 75mL only under warm early season conditions.Use the higher rate for denser canopies or to provide a faster response.A second spray 7 to 10 days later of either eChem Thidiazuron 500 SC Liquid or an alternative harvest aid may be required.
	GOOD Conditions are warm (25 to 30°C daytime temperature) and the crop is ready to be defoliated. Nitrogen and water are low and there is little or no new growth and a good fruit load is set.	100 to 150mL plus the recommended label rate of e-Tron, Hasten Spray Adjuvant or other spray oil of equivalent specifications registered for cotton.	Apply as above, but use these rates under good conditions.
	AVERAGE Conditions are: <ul style="list-style-type: none">(i) warm but night temperatures are dropping to 12°C (not below) and the crop is physiologically ready to defoliate or;(ii) temperature is still hot/warm but the crop is not physiologically ready to senesce.	150 to 200mL plus the recommended label rate of e-Tron, Hasten Spray Adjuvant or other spray oil of equivalent specifications registered for cotton.	Apply as above, but use these rates under average conditions.
	COLD Night temperatures fall below 12°C and/or mean day/night temperatures fall below 18°C.		DO NOT use eChem Thidiazuron 500 SC Liquid under cold conditions.

NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION

WITHHOLDING PERIOD

Cotton Processing - NOT REQUIRED WHEN USED AS DIRECTED.

Grazing/Cotton Trash - DO NOT GRAZE TREATED AREAS OR FEED COTTON TRASH TO LIVESTOCK.

CONDITIONS OF SALE

eChem (Australia) Pty Ltd. accepts responsibility for the consistent quality of the product however since the use and application of the product is beyond control, the company accepts no responsibility whatsoever for any loss, damage or other result following the use of the product whether used in accordance with directions or not; other than those mandatorily imposed by statutes, the liability is limited to the replacement of the goods and is conditional upon a claim made in writing and, where necessary, a sufficient part of the goods being returned for proper examination by the company within thirty days of sale.

Batch No.

Date of Manufacture

In an Emergency Dial 000 Police or Fire Brigade