

READ SAFETY DIRECTIONS BEFORE OPENING OR USING



# Thidiazuron 500SC®

Flowable Cotton Defoliant

ACTIVE CONSTITUENT: 500 g/L THIDIAZURON

For the defoliation of Cotton  
prior to Harvest.

IMPORTANT: READ THIS LEAFLET BEFORE OPENING OR USING THIS PRODUCT

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Leaflet\_1017

APVMA Approval No: 69162/60108

DIRECTIONS FOR USE (For use in NT, QLD, NSW, WA only)

RESTRAINTS:

DO NOT apply when night temperatures fall below 12°C.  
DO NOT apply following application of sodium chlorate, magnesium chlorate or diquat.

CROP/ SITUATION	DEFOLIATION CONDITIONS	RATE/HA	CRITICAL COMMENTS
Cotton/ Defoliation - first or second spray.	<b>IDEAL</b> 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 100 mL plus 2.0L of D-C Tron <sup>†</sup> Cotton Spray Oil	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"><li>• Use the lower rates of 50 to 75 mL/ha only under warm early season conditions.</li><li>• Use the higher rate for denser canopies or to provide a faster response.</li><li>• A second spray 7 to 10 days later of either Sabakem Thidiazuron 500SC® or an alternative harvest aid may be required.</li></ul>
	<b>GOOD</b> 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 150 mL plus 2.0L of D-C Tron <sup>†</sup> Cotton Spray Oil	Apply as above, but use these rates under good conditions.
	<b>AVERAGE</b> Conditions are: (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 200 mL plus 2.0L of D-C Tron <sup>†</sup> Cotton Spray Oil	Apply as above, but use these rates under average conditions.
	<b>COLD</b> Night temperatures fall below 12°C and/or mean day/night temperatures fall below 18°C.	—	DO NOT apply Sabakem Thidiazuron 500SC® under cold conditions.

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

WITHHOLDING PERIODS

COTTON HARVESTING: NOT REQUIRED WHEN USED AS DIRECTED.

GRAZING/COTTON TRASH: DO NOT GRAZE TREATED AREAS OR FEED COTTON TRASH TO LIVESTOCK.

**GENERAL INSTRUCTIONS**

Sabakem Thidiazuron 500SC® Cotton Defoliant is an odourless, non-corrosive defoliant/harvest aid. After treatment with Sabakem Thidiazuron 500SC® Cotton Defoliant, 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 Sabakem Thidiazuron 500SC® Cotton Defoliant. Good control of regrowth is seen when Sabakem Thidiazuron 500SC® Cotton Defoliant is used at rates over 100 mL/ha. Defoliation will be slower under cold conditions, or when the crop is not physiologically mature.

**NOTE:** Rainfall within 24 hours after application will reduce the effectiveness of Sabakem Thidiazuron 500SC® Cotton Defoliant; re- treatment may be necessary. Defoliation of 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 Sabakem Thidiazuron 500SC® Cotton Defoliant 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 Sabakem Thidiazuron 500SC® Cotton Defoliant remain in the sprayer system, it may be released during subsequent applications of other products, causing damage to crops.

**EXPORT OF TREATED PRODUCE**

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

**MIXING**

Add the required amount of Sabakem Thidiazuron 500SC® Cotton Defoliant straight into the partly filled spray tank or mixing vat with agitator running, followed by D-C Tron† Cotton Spray Oil, and then 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's), add Sabakem Thidiazuron 500SC® Cotton Defoliant to the half filled spray tank or mixing vat and agitate thoroughly. With agitator running, add the EC product, followed by the D-C Tron† Cotton Spray 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 40 L/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 with particular care taken 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 Sabakem Thidiazuron 500SC® Cotton Defoliant per sprayed hectare.

**COMPATIBILITY**

Sabakem Thidiazuron 500SC® Cotton Defoliant is compatible in tank mixtures with ethephon, dimethoate and parathion.

**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.

**PRECAUTION**

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

In addition:

- DO NOT plant lettuce or carrots in cotton fields where Sabakem Thidiazuron 500SC® Cotton Defoliant 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 Sabakem Thidiazuron 500SC® Cotton Defoliant has been applied within the previous two months.
- DO NOT plant small grains, sorghum or corn in cotton fields where Sabakem Thidiazuron 500SC® Cotton Defoliant 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 containers.

**STORAGE AND DISPOSAL**

Store in the closed, original container in a dry well-ventilated area. DO NOT store for prolonged periods in direct sunlight. Triple 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 500mm 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.

**Returnable Containers (110L and 1000L):** Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

**SAFETY DIRECTIONS**

May irritate the eyes. Avoid contact with the eyes. When opening the container and preparing spray, wear chemical resistant clothing buttoned to the neck and wrist, washable hat and elbow-length PVC gloves. After each day's use, wash gloves and contaminated clothing. Wash hands after use.

**FIRST AID**

If poisoning occurs, contact a Doctor or Poisons Information Centre. Phone Australia 13 11 26.

**SAFETY DATA SHEET**

For further information refer to the Material Safety Data Sheet (MSDS), which is available from the supplier.

**CONDITIONS OF SALE:** The use of this product is beyond the control of Sabakem Pty Ltd. No warranty is expressed or implied regarding the suitability or efficiency for any purpose for which it is used by the buyer. Sabakem Pty Ltd accepts no responsibility for any consequences resulting from the use of this product. Sabakem Pty Ltd will not be held liable for any loss, injury or damage arising from the sale, supply or use of this product, whether through negligence or otherwise. No responsibility will be accepted for any consequences whatsoever resulting from the use of this product.

Additional statements required by Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia: **Harmful to aquatic life.**