

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Escalate[®] 500 SC

Cotton Defoliant

ACTIVE CONSTITUENT: **500 g/L THIDIAZURON**

For the defoliation of Cotton prior to harvest
as specified in the Directions for Use table



Formulation type
Suspension
Concentrate

SC

adama.com

CONTENTS: 5 L, 10L, 20 L

DIRECTIONS FOR USE

Restraints: DO NOT apply ESCALATE[®] 500 SC when night temperatures fall below 12°C.

DO NOT apply ESCALATE[®] 500 SC following application of sodium chlorate, magnesium chlorate or diquat.

SPRAY DRIFT RESTRAINTS

Specific definitions for terms used in this section of the label can be found at apvma.gov.au/spraydrift

DO NOT allow bystanders to come into contact with the spray cloud.

DO NOT apply in a manner that may cause an unacceptable impact to native vegetation, agricultural crops, landscaped gardens and aquaculture production, or cause contamination of plant or livestock commodities, outside the application site from spray drift. Wherever possible, correctly use application equipment designed to reduce spray drift and apply when the wind direction is away from these sensitive areas.

DO NOT apply unless the wind speed is between 3 and 20 kilometres per hour at the application site during the time of application.

DO NOT apply if there are hazardous surface temperature inversion conditions present at the application site during the time of application.

Surface temperature inversion conditions exist most evenings one to two hours before sunset and persist until one to two hours after sunrise.

CROP/SITUATION	DEFOLIATION CONDITIONS	RATE/ha	CRITICAL COMMENTS
Cotton Defoliation – first or second spray	Ideal Conditions are hot to warm (30 - 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 - 100 mL plus the label rate indicated of D-C-Tron [†] Cotton Spray Oil or equivalent, or a blended methylated/ethylated seed oil e.g. Hasten [†]	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 - 75 mL/ha only under warm early season conditions.• Use the higher rate for denser canopies or to provide a faster response.• A second spray 7 - 10 days later of either ESCALATE[®] 500 SC or an alternative harvest aid may be required.
	Good Conditions are warm (25 - 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 - 150 mL plus the label rate indicated of D-C-Tron [†] Cotton Spray Oil or equivalent, or a blended methylated/ethylated seed oil e.g. Hasten [†]	Apply as above, but use these rates under good conditions.

CROP/SITUATION	DEFOLIATION CONDITIONS	RATE/ha	CRITICAL COMMENTS
Cotton Defoliation – first or second spray	Average 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 - 200 mL plus the label rate indicated of D-C-Tron [†] Cotton Spray Oil or equivalent, or a blended methylated/ethylated seed oil e.g. Hasten [†]	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 apply ESCALATE [®] 500 SC 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 PROCESSING: NOT REQUIRED WHEN USED AS DIRECTED.

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

EXPORT TRADE ADVICE: Growers should note that suitable MRLs or important tolerances may not be established in all markets for produce treated with ESCALATE[®] 500 SC. If you are growing produce for export, please check with Adama Australia for the latest information on MRLs and import tolerances BEFORE using ESCALATE[®] 500 SC.

GENERAL INSTRUCTIONS

ESCALATE[®] 500 SC is an odourless, non-corrosive defoliant/harvest aid. After treatment with ESCALATE[®] 500 SC, leaves fall while still green so that there is minimal dry leaf trash to contaminate fibre or interfere with harvesting. Maximum defoliation occurs 7 - 21 days following application of ESCALATE[®] 500 SC. Good control of regrowth is seen when ESCALATE[®] 500 SC 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 ESCALATE[®] 500 SC; retreatment 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 ESCALATE[®] 500 SC 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 ESCALATE[®] 500 SC remain in the sprayer system, it may be released during subsequent applications of other products causing damage to crops.

MIXING

SHAKE WELL BEFORE OPENING. Add the required amount of ESCALATE[®] 500 SC straight into the partly filled spray tank or mixing vat with agitator running, followed by D-C-Tron[†] Cotton Spray Oil or equivalent, or a blended methylated/ethylated seed oil e.g. Hasten[†], 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 the ESCALATE[®] 500 SC to the 3/4 filled spray tank or mixing vat and agitate thoroughly. With agitator running, then add the EC product, followed by the D-C-Tron[†] Cotton Spray Oil or equivalent, or a blended methylated/ethylated seed oil e.g. Hasten[†]. 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 - 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 sprays 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 - 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 being taken to ensure thorough but even coverage. Overdosing on some plant parts e.g., 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 ESCALATE[®] 500 SC per sprayed hectare.

COMPATIBILITY

ESCALATE[®] 500 SC is compatible in tank mixtures with dimethoate.

CAUTION: When tank mixed with Wipe-Out 450[®] (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 ESCALATE[®] 500 SC by air when citrus in flush is within 8 km downwind from the point of application.
- DO NOT apply ESCALATE[®] 500 SC by air when within 800 m of lettuce.

In addition:

- DO NOT plant lettuce or carrots in cotton fields where ESCALATE[®] 500 SC 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 ESCALATE[®] 500 SC has been applied within the previous two months.
- DO NOT plant small grains, sorghum or corn in cotton fields where ESCALATE[®] 500 SC has been applied within the previous two weeks.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

DO NOT contaminate streams, rivers or watercourses with the chemical or used containers.

STORAGE AND DISPOSAL

KEEP OUT OF REACH OF CHILDREN. Store in the closed, original container in a cool, well-ventilated area. DO NOT store for prolonged periods in 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 a designated collection point. If not recycling, break, crush, or puncture and deliver empty packaging 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

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

SDS

Additional information is listed in the safety data sheet (SDS). A safety data sheet for ESCALATE® 500 SC is available from adama.com or call Customer Service on 1800 423 262.

CONDITIONS OF SALE: The use of ESCALATE® 500 SC Cotton Defoliant being beyond the control of the manufacturer, no warranty expressed or implied is given by Adama Australia regarding its suitability, fitness or efficiency for any purpose for which it is used by the buyer, whether in accordance with the directions or not and Adama Australia accepts no responsibility for any consequence whatsoever resulting from the use of this product.

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NOT A DANGEROUS GOOD ACCORDING TO THE AUSTRALIAN DANGEROUS GOODS (ADG) CODE.

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