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## **CAUTION**

**KEEP OUT OF REACH OF CHILDREN  
READ SAFETY DIRECTIONS BEFORE OPENING OR USING**

# **LEAFEX**

## **DEFOLIANT**



**ACTIVE CONSTITUENT: 300 g/L Sodium Chlorate**  
**Also contains: Calcium Chloride as a fire suppressant**  
For the defoliation of cotton prior to harvest.



**CONTENTS: 200L, 800L, 1000L**

**APVMA APPROVAL No: 47233/56803**

**GROWTH AGRICULTURE PTY LTD**  
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## DIRECTIONS FOR USE:

### SPRAY DRIFT RESTRAINTS:

**DO NOT** apply during periods of excessive wind as spray drift may cause defoliation of adjoining cotton or injury to other crops.

**DO NOT** apply with spray droplets smaller than a COARSE spray droplet size category according to the APVMA Compliance Instructions for Mandatory COARSE or Larger Droplet Size Categories located in the GENERAL INSTRUCTIONS section of this label under the GROUND APPLICATION and AERIAL APPLICATION headings.

**DO NOT** apply when wind speed is less than 3 or more than 20 kilometres per hour as measured at the application site.

**DO NOT** apply during surface temperature inversion conditions at the application site.

Users of this product **MUST make an accurate written record** of the details of each spray application within 24 hours following application and **KEEP** this record for a minimum of 2 years. The spray application details that must be recorded are: **1** date with start and finish times of application; **2** location address and paddock/s sprayed; **3** full name of this product; **4** amount of product used per hectare and number of hectares applied to; **5** crop/situation and weed/pest; **6** wind speed and direction during application; **7** air temperature and relative humidity during application; **8** nozzle brand, type, spray angle, nozzle capacity and spray system pressure measured during application; **9** name and address of person applying this product. (Additional record details may be required by the state or territory where this product is used

CROP	PURPOSE	STATE	RATE/HA	CRITICAL COMMENTS
Cotton	Defoliation	QLD NSW ONLY	11.0 to 22.0L PLUS a non-ionic wetter such as Growth Steadfast Compatibility- Acidifying- Surfactant Agent at the recommended label rate.	<b>AERIAL APPLICATION:</b> Apply in minimum of 30 L water per hectare. Use the lower rate only when plants and weather conditions are ideal for defoliation. Higher rate is essential with large plants or late in the season or in cool weather. <b>GROUND APPLICATION:</b> Apply in minimum 100 L water per hectare.

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

## GENERAL INSTRUCTIONS:

**MIXING:** The product dilutes readily with water. Add the required amount of product to the spray tank while filling.

**WETTING AGENT:** The addition of Growth Steadfast Compatibility-Acidifying-Surfactant Agent at the rate of 100-120 mL per 100 Litres is recommended when used with Leafex Defoliant. Growth Steadfast Compatibility-Acidifying-Surfactant Agent functions as a spreader by helping to reduce the surface tension of the spray droplets.

**PRECAUTIONS: DO NOT** use human flagging unless protected by engineering controls such as vehicles with enclosed cabs.

**RE-ENTRY: DO NOT** allow entry into treated areas until spray has dried. When prior entry is necessary, wear cotton overalls buttoned to the neck and waist (or equivalent clothing) and chemical resistant gloves. Clothing must be laundered after each day's use.

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**TIMING OF APPLICATION:** Apply to cotton two to three weeks before anticipated picking date. Do not treat cotton later than 7 to 10 days prior to harvest. Thorough coverage of the plant is essential. Immature plants or over mature plants generally are difficult to defoliate. Defoliation should not be attempted earlier than 30 to 40 days after cut-out. Uniform defoliation within a field sometimes may be difficult to obtain because of irregular plant maturity. Satisfactory defoliation may not be obtained when cotton plants are suffering from lack of moisture or when plant growth is retarded by cold weather. If a boll can be easily cut through it is not mature. If the fibre strings when the boll is cut, and the youngest bolls cannot be dented by pressure between thumb and two fingers, it is usually safe to apply defoliant.

**GROUND APPLICATION: USE ONLY** nozzles that the nozzles' manufacturer has rated to deliver a COARSE, a VERY COARSE or an EXTREMELY COARSE droplet size category as referenced to ASAE S572 or BCPC. Choose a nozzle specified to provide the droplet size category required in the label Spray Drift Restraints.

**DO NOT** use a higher spray system pressure than the maximum the manufacturer specifies for the selected nozzle to deliver the droplet size category required in the label Spray Drift Restraint.

**AERIAL APPLICATION:**

**Fixed-Wing Aerial Application: For up to a maximum aircraft speed of 120 knots and a COARSE droplet size category, USE ONLY** narrow angle flat fan nozzles with spray angle less than or equal to 40° and oriented straight back to the flight direction. **USE ONLY** a spray system pressure greater than or equal to 4 bar.

**Helicopter Aerial Application:** For helicopter applications requiring a COARSE or a VERY COARSE spray droplet size category, **USE ONLY** nozzles selected with the methods previously specified for fixed-wing aircraft.

**CLEANING EQUIPMENT:** Flush out equipment with water and hose down ground-rig or aircraft after finishing spraying for the day. Do not dump or rinse equipment into irrigation water.

**PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS:**

**DO NOT** apply under weather conditions or from spraying equipment that may cause spray to drift onto nearby susceptible plants/crops, cropping lands or pastures.

**PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT:**

Dangerous to fish. **DO NOT** contaminate streams, rivers or waterways with the chemical or used containers.

**STORAGE AND DISPOSAL:**

Store in the closed, original container in a cool, well ventilated area. Store in a locked room away from children, animals, foodstuffs, seed and fertilizers. Do not store for prolonged periods in direct sunlight. Triple or preferably pressure 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 and product.

**For refillable containers (1000L):** Empty contents fully into application equipment. Close all valves and return to designated collection point for refill or storage.

This product contains a fire suppressant, but every precaution should be taken where a possible fire hazard exists. **DO NOT BURN** product or empty container.

**SAFETY DIRECTIONS:**

Will irritate the eyes and skin. Avoid contact with eyes and skin. When opening the container and preparing spray wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and elbow-length PVC gloves. Wash hands after use.

**FIRST AID:**

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

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**MATERIAL SAFETY DATA SHEET:**

Additional information is listed in the Material Safety Data Sheet, which can be obtained from Growth Agriculture Pty Ltd.

**CONDITIONS OF SALE:** The product as supplied is of high quality and is believed to be suitable for the purposes for which it is recommended. The buyer or user is responsible for any misuse or negligence in the handling, storage and use of this material. This product must only be used in strict compliance with the directions given on this label. No representative of the manufacturer or seller has authority to add or alter these conditions.

**Batch Number:**

**Date of Manufacture:**

<p><b>UN No. 3210 CHLORATES, INORGANIC AQUEOUS SOLUTIONS, N.O.S. (CONTAINS SODIUM CHLORATE)</b> <b>HAZCHEM:2Y      PACK GP: II</b></p>	 <p>OXIDIZING AGENT 5.1</p>
<p>In a Transport Emergency Dial 000, Police, or Fire Brigade</p>	<p><b>FOR 24 HOUR SPECIALIST ADVICE IN EMERGENCY ONLY: PHONE 1800 440438 ALL HOURS AUSTRALIA WIDE</b></p>