

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

Reign[®]

PLANT GROWTH REGULATOR

Active Constituent: 38 g/L MEPIQUAT (present as the chloride)

For the management of fruiting and vegetative growth in cotton

GENERAL INSTRUCTIONS

Mode of Action

Reign is a foliar applied plant regulator which modifies the cotton plant by regulating its growth pattern and behavior. Reign may produce one or more of the following effects in cotton: darker leaf colour, reduction of internodal length, more open canopy, better boll retention, earlier maturity. Some of these may favourably influence the yield potential of the cotton plant.

Export of Treated Produce

Growers should note that suitable MRLs or import tolerances may not be established in all markets for produce treated with Reign Plant Growth Regulator. If you are growing produce for export, please check with Bayer CropScience Pty Ltd for the latest information on MRLs and import tolerances BEFORE using Reign.

Application

Reign as a crop management tool is best applied as split-application "Multiple Low Rates" rather than a single application. First spray should be applied early (early squaring) and repeated as suggested in the DIRECTIONS FOR USE table.

Application method

Reign may be applied by air or ground. Best results can be obtained with total spray volumes of at least 20 to 30 L/ha for aerial application and 80 to 100 L/ha for application by ground rig.

Mixing

Reign has an aqueous base and mixes readily with water. Add the required amount of Reign to the partly filled spray tank and agitate to give even mixing.

Compatibility

Reign has been found to be compatible with emulsifiable concentrate (EC) formulations of the following insecticides: endosulfan, permethrin, deltamethrin, fenvalerate and methomyl. Care should be taken that there is no conflict in application techniques between Reign and the insecticide when applying products together. Do not tank-mix with foliar fertilisers as the benefits from such mixes have not been established.

Lodging

Under strong winds Reign-treated cotton that has set bolls packed tightly together against the stem may be more susceptible to lodging.

PRECAUTIONS

Re-entry Period

Do not allow entry into treated areas until the spray deposits have dried. When prior entry is necessary, wear cotton overalls buttoned to the neck and wrist and elbow-length PVC gloves. Clothing must be laundered after each day's use.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

DO NOT apply under weather conditions or from spraying equipment which could be expected to cause spray to drift onto adjacent crops, crop lands, pastures or livestock.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

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

STORAGE AND DISPOSAL

Store in the closed, original container in a cool, well-ventilated area. Do not store for prolonged periods in direct sunlight. **(1 L, 20 L and 200 L containers)**

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 bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

Container with dry-break connection (100, 1000 L)

If tamper evident seals are broken prior to initial use then the integrity of the contents cannot be assured. Empty container by pumping through dry-break connection system. Do not attempt to breach the valve system or the filling point, or contaminate the container with water or other products.

Ensure that the coupler, pump, meter and hoses are disconnected, triple rinsed and drained after each use. When empty, or contents no longer required, return the container to the point of purchase. This container remains the property of Bayer CropScience Pty Ltd.

Schütz container with camlock valve connection (1000 L)

If tamper evident seals are broken prior to initial use then the integrity of the contents cannot be assured. The container must be vented before discharging contents. To empty connect a camlock fitted hose to the bottom valve. Remove top cap when discharging for venting purposes. When the container is empty, close all caps and valves and return the container to the point of purchase.

SAFETY DIRECTIONS

Avoid contact with eyes and skin. Wash hands after use.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre (telephone 13 11 26).

MATERIAL SAFETY DATA SHEET

Additional information is listed in the Material Safety Data Sheet, which can be obtained from www.bayercropscience.com.au.

EXCLUSION OF LIABILITY

This product must be used strictly as directed, and in accordance with all instructions appearing on the label and in other reference material. So far as it is lawfully able to do so, Bayer CropScience Pty Ltd accepts no liability or responsibility for loss or damage arising from failure to follow such directions and instructions.

NRA Approval No.: 53328/0904

FOR 24 HOUR SPECIALIST ADVICE
IN EMERGENCY ONLY
PHONE 1800 033 111

Reign® is a Registered Trademark of Bayer

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

Restraints

DO NOT apply to crops that have restricted growth due to drought stress, waterlogging, nutrient deficiency, poor soil structure or any other cause as this can result in a yield decrease.

DO NOT apply if adequate insect and mite pest control and supply of water and nutrients later in the crop is in doubt, or if “stressing” is a normal management practice. If severe drought conditions occur after Reign application, Reign results can be unsatisfactory and/or yield decreases can occur.

DO NOT apply Reign if rainfall is expected within 8 hours of application as effectiveness of Reign may be reduced.

DO NOT apply to new commercial varieties of cotton before checking with the manufacturer.

CROP	PURPOSE	APPLICATION RATE	CRITICAL COMMENTS
Cotton	To regulate fruiting and vegetative growth	250 to 600 mL/ha	Split application/multiple low rates Apply at timings suggested below. Use crop growth measurements such as internode length as a guide for rate selection. Use the lower rate where internode length is shorter or when there is a possibility of stress occurring. Check varietal responses to mepiquat chloride with seed producers. Do not apply more than 600 mL in a single application prior to 1 st flower. 1 st spray at early squaring – squares the size of matchheads. Use the lower rate unless growth is excessive according to plant measurements
		250 mL to 1.0 L/ha	Second spray at approximately 1 st flower. Use the higher rate where growth is excessive according to measurements and there is little chance of crop stress, eg. moisture stress or water logging
250 mL to 1.0 L/ha		3 rd spray at approximately 14 days (2 weeks) later. Apply only if crop growth measurements, eg. internode length indicate excessive growth is likely.	
	Control of excess growth	750 mL to 2.0 L/ha	Single application Apply between 1 st flower and cut out to slow excessive growth or induce cutout. Use the higher rate where crop growth is excessive according to plant growth measurements such as internode length, or when cutout is the aim of the application. Use the lower rate to limit vegetative growth only. Do not apply to plants less than 50 cm high.

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

WITHHOLDING PERIOD

DO NOT HARVEST FOR 4 WEEKS AFTER APPLICATION.

DO NOT GRAZE OR CUT FOR STOCKFOOD ANY TREATED VEGETATION.