

Product Name: ACIFEN HERBICIDE  
APVMA Approval No: 84099 / 109701



Label Name:	ACIFEN HERBICIDE
Signal Headings:	POISON KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING
Constituent Statements:	224 g/L ACIFLUORFEN (Present as the sodium salt)
Mode of Action:	GROUP <b>G</b> HERBICIDE
Statement of Claims:	For the selective control of certain broadleaf weeds and grasses in mung beans, peanuts, soybeans, green beans and seed crops of Siratro and Stylo as specified in the DIRECTIONS FOR USE table
Net Contents:	250mL – 1000L
Restraints:	DO NOT mix with oils, fertilisers or other pesticides, except where indicated. DO NOT apply when crops or weeds under stressed conditions. DO NOT apply as a post-emergent treatment to hard-to-kill weeds when rainfall is expected within 6 hours.
Directions for Use:	
Other Limitations:	
Withholding Periods:	GREEN BEANS, ADZUKI BEANS: DO NOT HARVEST FOR 28 DAYS AFTER APPLICATION

CROP SALVAGE SITUATION WHEN ACIFEN HERBICIDE IS USED UP TO 4L/HA: DO NOT HARVEST FOR 50 DAYS AFTER APPLICATION
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Trade Advice:
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General Instructions:
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**MIXING**

Acifen Herbicide mixes readily with water. Fill the spray tank about two thirds full with water and add the required amount of Acifen Herbicide. Fill the spray tank and mix. Maintain sufficient agitation during mixing and spraying to ensure a uniform spray mixture.

**USE OF SURFACTANT**

The use of a low foam, non-ionic surfactant at the labelled rate should be used for maximum weed control. The surfactant should be added to the spray mixture after adding the required amount of Acifen Herbicide.

**USE OF CROP OIL ADJUVANTS**

Acifen Herbicide may be applied to mung beans at the reduced rate of 1L/ha in combination with Hasten at 1L/100L (1%). The adjuvant should be added to the spray mixture after adding the required amount of Acifen Herbicide. Use of this mixture may increase phytotoxicity, however plants will soon recover and yield will be unaffected.

**APPLICATION**

Acifen Herbicide may be applied by ground equipment using standard low pressure herbicide sprayers, equipped with hollow cone or flat fan nozzles. The spray equipment should be calibrated to deliver between 100 and 300 litres of spray mixture per hectare at a pressure of 250 to 350kPa at the nozzle tips.

Acifen Herbicide may be applied as a banded treatment directly over the crop row. When this method of application is used, it is important that the spray equipment be calibrated to give the correct dosage per sprayed hectare, and that the spray pattern gives maximum coverage of the weed foliage present. Before using Acifen Herbicide it is important to check that the equipment is clean and that all materials from previous uses are completely flushed from the system.

**AERIAL APPLICATION (QLD only)**

Acifen Herbicide can be applied from a fixed wing aircraft or helicopter using a minimum of 48 litres of spray per hectare. Nozzles on spray booms should not be placed any closer to wingtips than three quarters of the wingspan, this will minimise the formation of spray or wing tip vortices roll. A spraying height of 2 to 3 metres over the crop is recommended. Swirl jet or hollow cone nozzles are suggested. Keep pressures below 275kPa. Nozzles should point to the rear of the aircraft and not be pointed downward more than 20 degrees. **DO NOT USE MICRONAIR EQUIPMENT FOR ACIFEN HERBICIDE APPLICATION**

**GREEN BEAN CROPS**

Early application is important. Treatment later than the recommended weed growth stage may result in inadequate control of Prince of Wales feather (*Amaranthus powellii*). The application of Acifen Herbicide may cause some crop phytotoxicity eg, some tip burning and stunting. The beans usually grow out of this, though they may remain about 10cm shorter than unsprayed beans. This does not appear to reduce yield. It is recommended that growers consult an experienced field agronomist prior to using this product. Additionally, it is recommended to apply in the evening if possible. Increased phytotoxicity may occur under warm humid conditions. A non-ionic wetting agent may be added at 1.0% v/v. Thorough coverage is essential. Do not apply early than fully expanded unifoliate stage, to target *Amaranthus*, which is greater than the two-leaf stage. Multiple applications should only be used if necessary to treat the weed production.

**PRE-EMERGENCE TREATMENTS**

Best results are obtained when the crop and weeds are free from moisture and temperature stress, and when the relative humidity is around 65% or higher. **DO NOT apply Acifen**

	<p>Herbicide if soil temperature is below 15°C or air temperature below 20°C. Crop damage will also be increased when Acifen Herbicide is applied when air temperatures are above 30°C.</p> <p>Since it is important that the maximum possible weed coverage is obtained, application should be made before the crop canopy shields the weeds from spray contact but after the maximum number of weed seedlings have emerged. This will usually occur between the 2nd and 5th trifoliate stages of the crop, about one month after sowing. Thorough coverage is essential for optimum weed control.</p> <p>After treatment, soybean leaves may exhibit leaf cupping, crinkling and specking, particularly on the youngest leaves present at time of application. Soybeans recover from this injury and continue growing at a normal rate with no adverse effect on crop yield.</p> <p><b>COMPATIBILITY</b> Acifen Herbicide is compatible with BASAGRAN, haloxyfop 520, fluazifop-P, Clethodim, sethoxydim.</p>
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Resistance Warning:	<p><b>GROUP G HERBICIDE</b></p> <p>Acifen Herbicide is a member of the diphenyl ether group of herbicides. Acifen Herbicide has the protoporphyrinogen oxidase mode of action. For weed resistance management Acifen Herbicide is a Group G herbicide. Some naturally occurring weed biotypes resistant to Acifen Herbicide and other Group G herbicides may exist through normal genetic variability in any weed population. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds will not be controlled by Acifen Herbicide or other Group G herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use Shandong Rainbow International Co., Limited accepts no liability for any losses that may result from the failure of Acifen Herbicide to control resistant weeds.</p>
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Precautions:	
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Protections:	<p><b>PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS</b> DO NOT apply under weather conditions, or from spraying equipment, which could be expected to cause to spray to drift onto nearby susceptible plants/crops, cropping lands or pastures. Wash sprayer thoroughly after use.</p> <p><b>PROTECTION OF WILDLIFE, FISH CRUSTACEANS AND ENVIRONMENT</b> DO NOT contaminate streams, rivers or waterways with this product or the used containers. DO NOT apply when weather conditions favour run-off or drift from areas treated.</p>
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Storage and Disposal:	<p>Store in the closed, original container in a cool, well-ventilated area. 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 re-use container for any other purpose. DO NOT burn empty containers or product.</p>
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Safety Directions:	<p>Will damage the eyes. May irritate the skin. Avoid contact with eyes and skin. When opening the container and preparing spray, wear elbow length chemical resistant gloves</p>
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	and face shield or goggles. If product on skin, immediately wash area with soap and water. Wash hands after use. After each day's use, wash gloves and face shield or goggles.
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First Aid Instructions:	If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131126. If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.
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First Aid Warnings:	
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**DIRECTIONS FOR USE:**

CROP	WEEDS CONTROLLED	WEED STAGE	RATE	CRITICAL COMMENTS.
Adzuki Beans ( <i>Vigna angularis</i> ) (All States)  Mung beans (Qld only)  Peanuts (Qld, WA only)  Soybeans (Qld, NSW, WA only)	Apple of Peru, Turnip Weed, Wild Radish	Cotyledon to 2 true leaves	1.0L/ha	Apply thorough coverage to young actively growing weeds.
		2 to 6 true leaves	1.5L/ha	
	Prince of Wales Feather, Redshank, Thornapple	Cotyledon to 2 true leaves	2.0L/ha	
		2 to 6 true leaves	1.0L/ha	
	Pigweed	Cotyledon to 50mm diameter		
		50 to 100mm diameter	1.5L/ha	
	Annual Ground Cherry, Wild Gooseberry	Cotyledon to 4 true leaves	1.0L/ha	
		4 to 8 true leaves	1.5L/ha	
	Blackberry nightshade, Bladder ketmia, Capeweed, Fumitory, Noogoora burr	8 leaves to 200mm high	2.0L/ha	
		Cotyledon to 4 true leaves		
	Bellvine	2 to 4 true leaves	1.5L/ha	
		4 to 6 true leaves	2.0L/ha	
	Giant Pigweed	Cotyledon to 2 true leaves		
	Jute	Cotyledon to 4 true leaves	1.5L/ha	
		4 to 6 true leaves	2.0L/ha	
	Sesbania	Cotyledon to 200mm high		
Mung Beans (NSW only)	Bladder ketmia, Noogoora burr	Cotyledon to 4 true leaves		
Mung Beans (Qld, NSW only)	See weeds above	Apply at the weed stage listed above	1.0L/ha + Hasten at 1L/100L water (1% v/v)	DO NOT exceed 1L/ha Acifen Herbicide with this mixture.
Green Beans (All States)	Prince of Wales Feather ( <i>Amaranthus powellii</i> )	2 to 4 leaf stage	250 to 500mL/ha	Do not exceed 2L of product per hectare per season. Apply up to 3 times by boomspray. <ul style="list-style-type: none"> <li>After the fully expanded unifoliate leaf stage of the crop.</li> <li>When crop is at 6 to 7 leaf stage and/or when the crop is at early flowering stage.</li> </ul> See application section below.
Peanuts (Qld only)	Bellvine	2 to 6 true leaves	1 L/ha Acifen Herbicide plus 1 to 1.5L of 400 g/L formulation of 2,4-DB/ha	Apply with thorough coverage as a tank mix to young actively growing weeds. Use the higher rate of 2,4-DB where larger weeds are present. The mixture will give additional control of larger weeds than given by Acifen Herbicide alone.
	Noogoora burr	Cotyledon to 6 true leaves		
Seed crops of Siratro and Common Fine Stem Stylo ( <i>Stylosanthes gulanensis</i> only) (Qld only)	Billy goat weed, Gambia pea, Glycine, Greenleaved Desmodium, Five- leaved cassia	Cotyledon to 4 true leaves	2.0L/ha	Apply with thorough coverage to young actively growing weeds. DO NOT use on other stylos.

NOTE: Treatment of weeds larger than those listed is not recommended because control may be incomplete due to increased weed tolerance and poor spray coverage. However, in a crop salvage situation, Acifen Herbicide may be used at dosages up to 4 L/ha, providing the application is not made within 50 days of harvest.

**PRE-EMERGENCE TREATMENT:** Soybeans and peanuts only. NOT recommended for mung beans.

CROP	WEEDS CONTROLLED	RATE	CRITICAL COMMENTS.
Peanuts, Soybeans (Qld, WA only)	Apple of Peru, Black Bindweed, Blackberry Nightshade, Fat Hen, Fumitory, Jute, Narrow Leaf Plantain, Noogoora Burr, Pigweed, Potato Weed, Redshank, Scarlet Pimpernel, Turnip Weed, Wild Gooseberry, Wild Radish	3.0L/ha	Apply as a broadcast spray after sowing but before the crops and weeds emerge. Applications should be made to well prepared, code free soil of relatively fine tilth. Mechanical soil incorporation is not recommended as this reduces the activity of Acifen Herbicide.
	Annual Ground Cherry, Barnyard Grass, Bladder Ketmia, Liverseed Grass, Mossman River Grass	4.0L/ha	

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