



Company Name: AXICHEM PTY LTD
Product Name: AC PULSATE HERBICIDE
APVMA Approval No: 81207/102550

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| Label Name: | AC PULSATE HERBICIDE |
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| Signal Headings: | CAUTION KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING |
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| Constituent Statements: | ACTIVE CONSTITUENTS: 290 g/L S-METOLACHLOR 370 g/L ATRAZINE |
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| Mode of Action: | GROUP C K HERBICIDE |
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| Statement of Claims: | Controls certain annual grasses and broad leaf weeds in Maize, Sugarcane and Sweet Corn, also in Sorghum when previously treated with Concep II Sorghum Seed Safener |
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| Net Contents: | 20L 100L |
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| Restraints: | Restraints DO NOT apply to waterlogged soil DO NOT apply if heavy rains or storms that are likely to cause runoff are forecast within 2 days of application DO NOT irrigate to the point of runoff for at least 2 days after application DO NOT apply when very dry conditions prevail DO NOT apply by aircraft DO NOT apply product to any drainage line. Drainage lines show evidence of the action of periodically flowing water (eg gravel, pebble, rock or sand bed, scour hole or nick point) and/or an incised channel at least 30 cm deep. DO NOT handle, mix, apply or conduct testing operations in areas susceptible to runoff where drainage results in rapid entry into waterways, particularly where no specific and effective action has been taken to prevent runoff into waterways. These areas may include areas mounded perpendicular to the contour, roads, access tracks, snig tracks and compacted log dumps. |
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| Directions for Use: | This section contains file attachment. File Name: Directions for Use.pdf File Size: 71024 bytes |
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| Other Limitations: | |
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| Withholding Periods: | WITHHOLDING PERIOD: DO NOT APPLY TO AREAS THAT WILL OR MAY BE GRAZED OR CUT FOR STOCK FOOD WITHIN 28 DAYS AFTER APPLICATION |
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| Trade Advice: | |
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| General Instructions: | <p>GENERAL INSTRUCTIONS</p> <p>This product is a residual, pre-emergent herbicide for the control of many important annual grass and broadleaf weeds in maize, sweet corn and Concep II treated sorghum without the problem of carryover of herbicides affecting succeeding crops. This product acts mainly through root and shoot absorption. Its effectiveness depends on the occurrence of rainfall or irrigation to move it down into the weed root zone.</p> <p>The maximum rate of atrazine application in all crops except plantation forestry is limited to an amount of product equivalent to 3 kg ai atrazine/ha per year. DO NOT exceed this limit when applying an atrazine herbicide post-emergence, where AC Pulsate Herbicide has been applied pre-emergence.</p> <p>Mixing DO NOT mix, load or apply this product within 20m of any well, sink hole, intermittent or perennial stream. Settling may occur after storage for some weeks. Stir product or invert container several times before opening. Pour the product into the spray vat through a strainer to remove any dry particles or flakes, which can occasionally occur under hot storage conditions. Add the full quantity of product to the partly filled spray tank while agitating. Fill tank and agitate to ensure thorough mixing. Continue agitation while spraying. Agitate vigorously from the bottom if allowed to stand. Reseal part used container immediately.</p> <p>Compatibility PRIMEXTRA GOLD is compatible with 2,4-D amine (500 g/L), S-metolachlor (960 g/L), flowable ametryn (500 g/L), flowable diuron (500 g/L), paraquat (250 g/L) and paraquat/diquat (250 g/L) formulations.</p> |
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| Resistance Warning: | <p>Resistant Weeds Warning</p> <p>AC Pulsate Herbicide is a member of the triazine and amide groups of herbicides and has the inhibitor of photosynthesis at photosystem II and the diverse sites mode of action. For weed resistance management this is a Group C and K herbicide. Some naturally occurring weed biotypes resistant to AC Pulsate Herbicide and other Group C and K 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 AC Pulsate Herbicide or other Group C and K herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, Axichem Pty Ltd accepts no liability for any losses that may result from the failure of AC Pulsate Herbicide to control the resistant weeds. Advice as to strategies and alternative treatments that can be used should be obtained from your local supplier, consultant, local</p> |
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Department of Agriculture, Primary Industries Department or a Axichem representative.
Any incidents of resistance must be reported to Axichem Pty Limited.

Precautions:

PRECAUTION

Re-entry Period: DO NOT enter treated areas without protective clothing until spray has dried

Crop Injury: Crop retardation or injury can occur following the use of AC Pulsate Herbicide under certain conditions. The crop retardation normally only occurs when sufficient rainfall is received after application to carry the herbicide to the germinating seed or into the root zone. Although not common, the occurrence of growth retardation can be hard to predict as many factors, including soil type, soil moisture, crop type, and rainfall events interplay to influence the movement of the herbicide in the soil profile. Since crop retardation is very difficult to predict, Axichem Pty Limited accepts no liability for any losses that may result from growth retardation.

Protections:

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.

DO NOT apply, drain or flush equipment on or near desirable trees or other plants, or on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots.

DO NOT plant crops other than maize, sweet corn, sugarcane or Concept II treated sorghum within 6 months of application of AC Pulsate Herbicide at rates up to 3.2 L/ha and for 18 months at rates of AC Pulsate Herbicide above 3.2 L/ha. On soils with a pH (CaCl₂) greater than 7, a bioassay or analytical test should be undertaken before sowing susceptible crops.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

DO NOT apply this product within 60 m of natural or impounded lakes or dams.

DO NOT use in channels and drains.

DO NOT apply under meteorological conditions or from spraying equipment which could be expected to cause drift of this product or spray mix into adjacent areas, particularly wetlands, water bodies or watercourses.

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

Storage and Disposal:

STORAGE AND DISPOSAL

Store in the closed, original container in a cool, well ventilated area. DO NOT store for prolonged periods in direct sunlight.

For non-refillable containers

Triple or preferably pressure rinse containers before disposal. Add rinsings to the 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 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.

For refillable containers

Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

Safety Directions:

SAFETY DIRECTIONS

Will damage the eyes. Avoid contact with eyes and skin. DO NOT inhale spray mist. When opening the container, preparing the spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), a washable hat, elbow-

length PVC gloves and face shield or goggles. If product in eyes, wash it out immediately with water. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves, face shield or goggles and contaminated clothing.

**First Aid
Instructions:**

FIRST AID
If poisoning occurs, contact a doctor or Poisons Information Centre. Phone 131 126.

First Aid Warnings:

| CROP | WEEDS | STATE | RATE/HA | CRITICAL COMMENTS |
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| Maize, Sweet Corn | Barnyard Grass, Blackberry Nightshade, Caltrop, Common | All States | 3.2 L | Apply before, at or immediately after planting and before crops and weeds have germinated using a low volume boom sprayer applying 60 to 120 L/ha. DO NOT apply to Sorghum seed not previously treated with Concep II. |
| Sorghum Seed Treated with Concep II Seed Safener | Thornapple, Crowsfoot Grass, Liverseed Grass, Lovegrass, Mintweed, Needle Burr, Noogoora Burr, Pigeon Grass, Pigweed, Red root Amaranth, Slim Amaranth, Summer Grass | Qld, NSW only | 3.2L plus 0.5 to 1L s- Metolachlor (960g/L) | <p>Pre-plant: Apply the product to an even, unridged seedbed and incorporate with suitable harrows (eg 5 row) or when sowing occurs shortly after application by the planting operation trailing covering harrows. Post-plant: If the soil is ridged, cloddy or with heavy trash at application then mechanical incorporation is not recommended. Rainfall or irrigation is then required to incorporate and activate the product. Moisture in the top 3 to 4 cm of soil is required to keep the product activated. In flood or furrow irrigation situations, mechanical incorporation is required to ensure the irrigation water comes in contact with the product to ensure activation. DO NOT throw untreated soil onto treated areas as this will reduce weed control. Apply as a tank mixture as a pre-emergent application where grasses are the major problem. Use rates of AC Pulsate Herbicide towards the higher end of the range on heavy soils where a high grass population is expected.</p> <p>Low grass populations can be achieved by limiting seed production the previous season. Agronomic practices which reduce large grass weed seed banks in the soil before sowing should be used. Maize, sweet corn: DO NOT use on soils where the sand content exceeds 70%. DO NOT use tank mixture when the sand content of the soil is greater than 50%. Precaution: Crop retardation or injury can occur when sufficient rainfall is received after application to carry the herbicide to the germinating seed or into the root zone. Under certain unfavourable environmental conditions weed escapes may occur. These should be controlled by an appropriate post-emergent herbicide application.</p> |

| CROP | WEEDS | STATE | RATE/HA | CRITICAL COMMENTS |
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| Sugarcane Plant and ratoon | Awnless Barnyard Grass, Barnyard Grass, Bellvine, Billygoat Weed (Blue Top), Blackberry Nightshade, Caltrop, Common Sowthistle (Milk Thistle), Common Thornapple, Crowsfoot Grass, Green Summer Grass, Guinea Grass, Liverseed Grass, Mexican Clover, Mintweed, Needle Burr, Passionfruit vines, Pigeon Grass, Pigweed, Redroot Amaranth, Square Weed, Star of Bethlehem, Summer Grass, Wild Rose | Sth Qld (Bundaberg Sth), NSW only | 3.6 to 4.8 L | Apply as a pre or post-emergent application to crop. Application should be made to a moist soil before weeds and grasses have germinated. If conditions remain dry for a period of 10 days after spraying, irrigation or a shallow cultivation (2.5 cm) may assist results. DO NOT throw untreated soil onto treated areas as this will reduce weed control. Sth Qld: Use rates toward the higher end of the range on heavy soils where a high grass population is expected. Nth Qld: Application must be made to moist soil and rainfall or irrigation should occur within 24 hours of application. Use rates toward the higher end of the range where high Green Summer Grass population is expected. Where broadleaf weeds and grasses have emerged and are in the 2 to 4 true leaf stage, knockdown herbicides such as a flowable ametryn (500 g/L) at 2L/ha, a flowable diuron (500 g/L) at 1 L/ha, paraquat (250g/L) at 1 L/ha or paraquat/diquat (135/115g/L) at 1 L/ha, applied as a post directed spray, can be added. Where broadleaf weeds only have emerged and are at the 2 to 4 true leaf stage then a 2,4-D amine (500 g/L) at 2 L/ha should be added. In all cases add a non-ionic surfactant. DIURON TANK MIXES: Read and follow all label directions including restraints, spray drift restraints, mandatory no-spray zones, critical comments, withholding periods, regional use restrictions and safety directions for the tank mix products. |
| | | Nth Qld (Mackay Nth) only | 4.8 to 6 L | |

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