

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Impose®

Herbicide

ACTIVE CONSTITUENT: **240 g/L IMAZAPIC**

present as the AMMONIUM SALT

GROUP **2** HERBICIDE

Crops/situations: Fallow, Sugarcane and Peanuts

Controls: Annual grass and broadleaf weeds as specified
in the Directions for Use table

Formulation type

Soluble
Concentrate

SL



ADAMA

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CONTENTS: 1 L - 10 L

DIRECTIONS FOR USE

RESTRAINTS: DO NOT apply to soils saturated with water.
DO NOT apply by aircraft.

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. The buffer zones in the relevant buffer zone table/s below provide guidance but may not be sufficient in all situations. 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.

DO NOT apply by a boom sprayer unless the following requirements are met:

- Minimum distances between the application site and downwind sensitive areas (see 'Mandatory buffer zones' section of the following table titled 'Buffer zones for boom sprayers') are observed.

Buffer zones for boom sprayers

Application rate	Mandatory downwind buffer zones
	Natural aquatic areas
Up to maximum label rate	50 metres

SITUATION	WEEDS CONTROLLED	RATE PER ha	CRITICAL COMMENTS
Fallow prior to planting Winter crops as directed in the follow crops table (Qld and Nthn NSW only)	Barnyard Grass (<i>Echinochloa colona</i>), Liverseed Grass (<i>Urochloa panicoides</i>), Stink Grass (<i>Eragrostis cilianensis</i>), Blowaway Grass (<i>Panicum decompositum</i>), Button Grass (<i>Dactyloctenium radulans</i>), Pigweed (<i>Portulaca oleracea</i>), Yellow Vine (<i>Tribulus terrestris</i>), Mintweed (<i>Salvia reflexa</i>), Boggabri Weed (<i>Amaranthus mitchelli</i>), Dwarf Amaranth (<i>Amaranthus macrocarpus</i>), Peachvine/Cowvine (<i>Ipomoea lonchophylla</i>)	150 to 200 mL	Treatments may be applied from the end of the previous crop harvest (refer to FOLLOW CROPS section prior to using IMPOSE). Best results are obtained where treatments are applied to dry, weed-free soil prior to weed germination. Treatments can be applied to standing crop residues. Sufficient rainfall is required after application and prior to weed emergence to wet soil to a depth of 5 cm. Use the higher rates for increased residual control of weeds or anticipated high weed pressure. Emerged weeds must be controlled by prior cultivation, or by application of a knockdown herbicide. Where infestation of emerged weeds is light, tank mix treatment with glyphosate or paraquat. Cultivation following application of treatments may reduce pre-emergence weed control provided by IMPOSE®. Prolonged wet soil conditions following treatment will reduce the effective life of pre-emergence treatments. Weed escapes may require follow up application of knockdown herbicides. DO NOT apply more than 200 mL/ha per season on cropland. DO NOT apply in more than two successive seasons on cropland. DO NOT overspray headlands. Minimum re-cropping intervals apply for all crops following IMPOSE® application. See "FOLLOW CROPS" section below for re-cropping guidelines and restrictions.
Sugarcane (Qld, NSW and WA only)	Awnless Barnyard Grass (<i>Echinochloa colona</i>), Barnyard Grass (<i>E. crus-galli</i>), Blackberry Nightshade (<i>Solanum nigrum</i>), Blue Billygoat Weed (<i>Ageratum houstonianum</i>), Common Sida (<i>Sida rhombifolia</i>), Giant/Black Pigweed (<i>Trianthema portulacastrum</i>), Glossy Nightshade (<i>Solanum americanum</i>), Green Amaranth (<i>Amaranthus viridis</i>), Green Summer Grass (<i>Brachiaria subquadrifida</i>), Ipomoea spp., Guinea Grass (<i>Panicum maximum</i>), Liverseed Grass (<i>Urochloa panicoides</i>), Milkweed (Mexican Fire Plant) (<i>Euphorbia heterophylla</i>), Pigweed (<i>Portulaca oleracea</i>), Summer Grass (<i>Digitaria ciliaris</i>)	300 to 400 mL	DO NOT apply more than once a year to the same crop. Pre-emergence application: PLANT CANE: Apply after planting and before emergence of the cane. On sandy soil, ensure thorough coverage of setts to a minimum depth of 5 cm. RATOON: Apply after harvest and before new cane growth appears. Use the higher rates of IMPOSE® for increased residual control of weeds or anticipated high weed pressure. Heavy trash layers may prevent the product from reaching the soil. Apply to weed-free soil prior to weed germination. Sufficient rainfall, or overhead irrigation, is required after application and prior to weed emergence to wet soil to a minimum depth of 5 cm. Emerged weeds must be controlled by prior cultivation, or application of an appropriate herbicide. Weed control can be improved under dry conditions or where incorporating moisture has been insufficient, by cultivating the treated soil above setts. Care needs to be taken to minimise exposure of untreated soil or setts. Pre-emergence weed control may be limited on Krasnozem or red brown Ferrosol soil types, where moisture is not maintained in the top 5 cm of soil. Refer to Soil Type in the General Instructions. Heavy rain and/or irrigation within 2 days following application may concentrate IMPOSE® in the furrow and cause temporary yellowing and stunting of cane leaves. Prolonged wet soil and/or cool conditions can increase crop damage, especially in sandy soil. Normal growth will return when conditions become warm and drier. Weed escapes may require follow up application of an appropriate herbicide. Contact Adama for advice on variety susceptibility before using this product (refer to the CROP SAFETY section of the label). Minimum re-cropping intervals apply for all crops following IMPOSE® application. See "FOLLOW CROPS" section below for re-cropping guidelines and restrictions.
	Cobbler's peg (<i>Bidens pilosa</i>)	400 mL	
	As above plus Crowsfoot Grass (<i>Eleusine indica</i>)	400 mL plus 3 L pendimethalin 330 g/L herbicide	Incorporate into the soil within 7 days of application, either by overhead irrigation, rainfall or mechanical incorporation, to a minimum depth of 5 cm. Read all directions for use in sugarcane as well as the Restraints and Follow Crops restrictions on both the pendimethalin and IMPOSE® herbicide labels before use.
	As above plus control of those weeds expected with these rates of 250 g/L paraquat products alone	300 to 400 mL plus 1.2 to 1.6 L of 250 g/L paraquat product (e.g. Spraytop® 250 SL Herbicide)	Post-emergence application (in emerged cane): ALWAYS tank mix IMPOSE® with registered and appropriate rates of paraquat for the emerged weeds. Use the higher rates of IMPOSE® for increased residual control of weeds or anticipated high weed pressure. Use the higher rates of paraquat for dense, more mature weeds. Apply as a carefully directed inter-row spray to weeds and at the base of the plant, minimising contact with sugarcane foliage. Contact with sugarcane foliage may cause temporary crop damage observed as inter-veinal yellowing and reduction in crop biomass or crop height. Refer to Spraytop® 250 SL Herbicide label re spray boom types and precautions. Reduce the incidence of "fines" by using the correct nozzles and operating pressures. Replace worn or old nozzles and calibrate equipment on a regular basis. DO NOT cultivate within 1 hour of application. Heavy rain and/or irrigation within 2 days following application may concentrate IMPOSE® in the furrow and cause temporary yellowing and stunting of cane leaves. DO NOT spray plants covered with heavy dew. Prolonged wet soil and/or cool conditions can increase crop damage, especially in sandy soil. Normal growth will return when conditions become warm and drier. Pre-emergence weed control may be limited on Krasnozem or red brown Ferrosol soil types, where moisture is not maintained in the top 5 cm of soil. Refer to Soil Type in the General Instructions. Contact Adama for advice on variety susceptibility before using this product (refer to the CROP SAFETY section of the label). Minimum re-cropping intervals apply for all crops following IMPOSE® application. See "FOLLOW CROPS" section below for re-cropping guidelines and restrictions.

SITUATION	WEEDS CONTROLLED	RATE PER ha	CRITICAL COMMENTS
Peanuts (Qld, NSW and NT only)	Awnless Barnyard Grass (<i>Echinochloa colona</i>), Barnyard Grass (<i>E. crus-galli</i>), Blackberry Nightshade (<i>Solanum nigrum</i>), Blue Billygoat Weed (<i>Ageratum houstonianum</i>), Common Sida (<i>Sida rhombifolia</i>), Giant/Black Pigweed (<i>Triathema portulacastrum</i>), Glossy Nightshade (<i>Solanum americanum</i>), Green Amaranth (<i>Amaranthus viridis</i>), Green Summer Grass (<i>Brachiaria subquadrifida</i>), Ipomoea spp., Guinea Grass (<i>Panicum maximum</i>), Liverseed Grass (<i>Urochloa panicoides</i>), Milkweed (Mexican Fire Plant) (<i>Euphorbia heterophylla</i>), Pigweed (<i>Portulaca oleracea</i>), Summer Grass (<i>Digitaria ciliaris</i>)	300 to 400 mL	Pre-emergence application. Optimum weed control will occur when moisture is maintained in the top 5 cm of soil. Apply to weed-free soil prior to weed germination. Sufficient rainfall, or overhead irrigation, is required after application and prior to weed emergence to wet soil to a minimum depth of 5 cm. Use the higher rates for increased residual control of weeds or anticipated high weed pressure. Pre-emergence weed control may be limited on Krasnozems or red brown Ferrosols soil types, where moisture is not maintained in the top 5 cm of soil. Refer to Soil Type in the General Instructions. DO NOT apply to any one crop more than once per season. Minimum re-cropping intervals apply for all crops following IMPOSE® application. See "FOLLOW CROPS" section below for re-cropping guidelines and restrictions.
	As above plus Nutgrass* (<i>Cyperus rotundus</i>)	400 mL plus Hasten ¹ or Kwicken ¹ at 1 L/100 L (or a similar esterified oil adjuvant)	Post-emergence application. Apply prior to crop flowering. DO NOT apply to any one crop more than once per season. * Nutgrass: suppression only when applied to nutgrass at the 3 to 4 leaf stage. Minimum re-cropping intervals apply for all crops following IMPOSE® application. See "FOLLOW CROPS" section below for re-cropping guidelines and restrictions.

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

WITHHOLDING PERIODS

HARVEST: NOT REQUIRED WHEN USED AS DIRECTED.

GRAZING/STOCKFEED WHP:

WHEAT, BARLEY, CHICKPEA, PEANUTS: DO NOT GRAZE TREATED VEGETATION, STUBBLE OR WEEDS, OR CUT FOR STOCKFOOD, FOR 4 WEEKS AFTER APPLICATION.

SUGARCANE: DO NOT GRAZE CROP OR SPRAYED VEGETATION, OR CUT FOR STOCKFOOD, FOR 6 WEEKS AFTER APPLICATION.

GENERAL INSTRUCTIONS

All Applications

Reduce the incidence of "fines" by using the correct nozzles and operating pressures. Replace worn or old nozzles and calibrate equipment on a regular basis.

To avoid rotational crop injury, IMPOSE® must be used according to the guidelines in the FOLLOW CROPS section below.

Fallow application

IMPOSE® can be applied in fallow prior to the planting of various crops as outlined in the FOLLOW CROPS table. IMPOSE® is a pre-emergence herbicide, which is recommended to provide short term (6 - 12 weeks) pre-emergence control of Summer germinating grasses and broadleaved weeds in cultivated or uncultivated fallow. A green weed cover of greater than 50% will significantly reduce the length of pre-emergence weed control.

Sugarcane application

Pre-emergence: Where possible, apply to soil two days prior to incorporation. Incorporate with adequate irrigation or rainfall to a minimum depth of 5 cm. Incorporation by flood irrigation may result in loss of weed control. IMPOSE® should be applied to plant or ratoon cane before the cane has emerged. When applying IMPOSE® in moist conditions, allow weeds to germinate prior to application and apply mixed with an appropriate knockdown herbicide. Whenever emerged weeds are present, IMPOSE® should be mixed with an appropriate knockdown herbicide.

Post-emergence: IMPOSE® MUST always be mixed with registered rates of paraquat (ie Spraytop® 250 SL Herbicide) and applied as a carefully directed inter-row spray to weeds and at the base of the sugarcane stalks, minimising spray contact with sugarcane foliage. DO NOT add crop oil to this mixture. Other surfactant or adjuvant is not required.

Peanut application

Pre-emergence: Apply to soil and incorporate with adequate irrigation or rainfall to a minimum depth of 5 cm.

Post-emergence: IMPOSE® must always be mixed with an adjuvant as directed in the DIRECTIONS FOR USE section of the label.

Soil Type

Pre-emergence weed control with IMPOSE® can be limited when applied onto soils with pH <5.0 and/or which contains high concentrations of iron (Fe) and/or aluminium (Al). These situations are common in soil types such as Krasnozems and red brown Ferrosols.

MIXING

IMPOSE® is an aqueous solution. Part fill the spray tank with water, then with agitator running, add the required amount of product, then fill the tank with water. When tank mixing this product with other recommended compatible products, first add the other product to the tank and mix thoroughly before adding this product. For post-emergence applications in peanuts, add adjuvant after the addition of IMPOSE® to the tank. No adjuvants or surfactants are required when IMPOSE® is used alone for pre-emergence weed control or with paraquat.

DO NOT add crop oil when applied post-emergence with paraquat.

Fallow Application: Apply with boom equipment in not less than 50 L/ha water using flat fan nozzles. Avoid overlap and do not overspray headlands.

Sugarcane: Ensure thorough coverage of soil and weeds with well-calibrated spray equipment. Apply in a minimum of 200 L water/ha using a nozzle configuration to generate a medium to coarse spray pattern for pre-emergence applications or medium spray pattern for post-emergence applications. Replace worn or old nozzles and calibrate equipment on a regular basis.

Peanuts: Apply with boom equipment in not less than 50 L/ha water using flat fan nozzles. Avoid overlap and do not overspray headlands. For post-emergence applications, IMPOSE® should be applied a minimum of 2 hours before rainfall.

EQUIPMENT CLEAN-UP

Thoroughly flush all spray equipment with water following the use of IMPOSE® and before use with other products.

COMPATIBILITY

IMPOSE® is compatible with Adama Diuron 900WG, pendimethalin, Farnazine® 900WG, Wipe-out® 450, Spraytop®, Sprayseed[†], metsulfuron-methyl, Safari®, and 2,4-D. IMPOSE® is NOT compatible with dicamba.

RESISTANT WEEDS WARNING

IMPOSE® Herbicide is a member of the imidazolinone group of herbicides. The product has the inhibitors-of-acetolactate-synthase (ALS) mode of action. For weed resistance management, the product is a Group 2 herbicide. Some naturally-occurring weed biotypes resistant to this product and other Group 2 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 this product or other Group 2 herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, Adama Australia accepts no liability for any losses that may result from the failure of this product to control resistant weeds.

FOLLOW CROPS

Imazapic is primarily degraded in soil by microbial breakdown in presence of moisture and favourable soil temperature for microbial activity. Conditions which do not favour microbial breakdown of imazapic may result in carry-over soil residues that can affect susceptible follow crops. Some of these factors include:

- Low soil moisture
- Low soil temperatures
- Acidic soil pH
- Unfavourable levels of organic matter
- Poor soil structure

The following minimum re-cropping intervals (months after application) should be observed.

MINIMUM RE-CROPPING INTERVALS (MONTHS)^β

4*	8*	15 ^δ	18 ^δ	24	36
Peanuts, mung beans, soybeans and non- genetically modified Imidazolinone tolerant varieties of: - Barley - Wheat - Maize	Chickpeas, faba beans, lucerne, lupins, pasture legumes	Barley, Wheat, Maize (except when listed with a 4 month minimum re-cropping interval)	Sorghum ^δ	Cotton ^Δ (dryland and irrigated), sunflower	Any other crops ^Δ

^βThe following requirements apply for all crops grown after application of IMPOSE:

The re-cropping interval commences from when sufficient rainfall occurs to wet the soil profile to a minimum depth of 5 cm.

At least half the minimum recommended rainfall should fall within the first half of the re-cropping interval.

DO NOT apply IMPOSE® in fallow later than the end of December.

* DO NOT apply IMPOSE® in areas where rainfall from spraying to sowing is expected to be below 200 mm.

^δ The following additional requirement applies for barley, wheat, maize (except for non-genetically modified imidazolinone tolerant barley, wheat or maize varieties) or sorghum:

DO NOT apply IMPOSE® in areas where rainfall from the start of the re-cropping interval to sowing is expected to be below 500 mm.

^Δ The following additional requirement applies for cotton, sunflowers and any other crops not listed in the Minimum Re-cropping Interval table above:

DO NOT apply IMPOSE® in areas where rainfall from the start of the re-cropping interval to sowing is expected to be below 550 mm.

RE-ENTRY PERIOD FOR IMPOSE® PLUS pendimethalin herbicide

When tank-mixing IMPOSE® with pendimethalin, DO NOT allow entry into treated areas for 12 hours. 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 apply under weather conditions, or from spraying equipment, that may cause spray to drift onto nearby susceptible plants/crops, cropping lands or pastures.

CROP SAFETY

This product may, in some circumstances, lead to transient crop yellowing and temporary slowing of growth in sugarcane but plants soon recover and yield is unaffected. This effect may be more pronounced when the product is used under conditions where soil moisture is high within 2 days following application and on light/sandy soil. Contact Adama for advice on variety susceptibility before using this product.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

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. DO NOT store for prolonged periods in direct sunlight. This container can be recycled if it is clean, dry, free of visible residues and has the drumMuster logo visible. Triple-rinse container for disposal. Dispose of rinsate by adding it to the spray tank. Do not dispose of undiluted chemicals on site. Wash outside of the container and the cap. Store cleaned container in a sheltered place with cap removed. It will then be acceptable for recycling at any drumMuster collection or similar container management program site. The cap should not be replaced, but may be taken separately. 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.

- Shallow/strongly duplex soils
- Soils with low water infiltration and limited water holding capacity
- Nutrient deficiencies, imbalances (e.g. sodic soils) or other agronomic issues.

Minimum re-cropping intervals (months after application) should be observed as per the relevant re-cropping tables and guidelines below.

Where IMPOSE® residue carryover is suspected (even after observing the minimum re-cropping intervals) and susceptible crops are to be planted, test the treated area as follows:

- Field bioassay – where rain allows, plant a small area of the susceptible crop four to six weeks before desired planting date and take note of any symptoms of injury. If any herbicide symptoms are observed, only plant a non-susceptible crop.
- Pot bioassay – where not practical to do field bioassay, plant a small number of seeds of the susceptible crop into pots containing soil from the treated field. Do this four to six weeks before desired planting date. If any herbicide symptoms are observed, only plant a non-susceptible crop. If this methodology is used care should be taken to ensure soil samples are representative of the soil in each paddock. Soil should be sampled from several locations and each sample should be labelled to ensure the location of sampling is known.

As environmental and agronomic factors make it impossible to eliminate all risks associated with this product, rotational crop injury is always possible.

SAFETY DIRECTIONS

Will irritate the eyes. Avoid contact with eyes. When opening the container and preparing spray, wear elbow-length PVC gloves. Wash hands after use. After each day's use, wash gloves. When tank-mixing with or Spraytop® 250 SL Herbicide, consult also the safety directions for those products.

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 IMPOSE® Herbicide is available from adama.com or call Customer Service on 1800 423 262.

CONDITIONS OF SALE: The use of IMPOSE® Herbicide 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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