



## HERBICIDE

Active Constituent: 240 g/L IMAZAPIC present as the ammonium salt

GROUP **B** HERBICIDE

For the pre-emergence control of certain annual grass and broadleaf weeds in fallow situations and sugarcane as per the DIRECTIONS FOR USE table.

## FEATURES

Controls the widest weed spectrum for residual herbicides.

## BENEFITS

Greater soil moisture available to the following crop.

## MODE OF ACTION

FLAME is an AHAS/ALS inhibitor. It translocates to growing tips in roots and shoots, interfering with production of essential amino acids and thus preventing new cell growth.

## PACK SIZES

1 L, 5 L, 20 L

<i>U.N. Number</i>	<i>Correct Shipping Name</i>	<i>Class</i>	<i>Subsidiary Risk</i>
Not Applicable	Not considered a Dangerous Good	Not Applicable	Not Applicable
<i>HAZCHEM Code</i>	<i>Poisons Schedule</i>	<i>Emergency Guide</i>	<i>Packaging Group</i>
Not Applicable	Exempt	Not Applicable	Not Applicable

READ SAFETY DIRECTIONS BEFORE OPENING OR USING



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For the pre-emergence control of certain annual grass and broadleaf weeds in fallow situations and sugarcane as per the DIRECTIONS FOR USE table.

### GENERAL INSTRUCTIONS

**Fallow application:** This product is for use in fallow prior to the planting of wheat, barley or chickpea.

FLAME is a pre-emergence herbicide which is recommended to provide short term (6-12 weeks) pre-emergence control of summer germinating grasses and broadleaf weeds in cultivated or uncultivated fallow.

**Sugarcane application:** FLAME should be applied to plant or ratoon cane before the cane has emerged. If emerged weeds are present, FLAME should be mixed with an appropriate knockdown herbicide.

### MIXING

FLAME 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.

No adjuvants or surfactants are required when FLAME is used alone for pre-emergence weed control.

### APPLICATION

Do NOT apply by aircraft.

**Fallow application:** For ground application only: 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 with well-calibrated spray equipment. Apply in 50 to 200 L water/ha.

### EQUIPMENT CLEAN-UP

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

### COMPATIBILITY

FLAME is compatible with glyphosate, paraquat, Ally<sup>†</sup>, Garlon<sup>†</sup> and Touchdown<sup>†</sup>.

It is NOT compatible with dicamba or Lontrel<sup>†</sup>.

### RESISTANT WEEDS WARNING

FLAME 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 B herbicide. Some naturally occurring weed biotypes resistant to the product

and other inhibitors-of-acetolactate-synthase (ALS) 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 inhibitors-of-acetolactate-synthase (ALS) herbicides.

Since the occurrence of resistant weeds is difficult to detect prior to use, BASF Australia Ltd accepts no liability for any losses that may result from the failure of this product to control resistant weeds.

### FOLLOW CROPS

Under conditions which do not favour breakdown of this product, carry-over soil residues can affect susceptible follow crops.

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

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

Following use in summer fallow:-

	MONTHS AFTER APPLICATION			
	4	12	24	36
wheat*,				
barley*,				
chickpea,				
peanuts				

\* The following additional requirements apply if it is intended to plant wheat or barley during the next winter season.

Do NOT apply FLAME in fallow later than the end of December.

Do NOT apply FLAME in areas where rainfall from spraying to sowing of cereals is expected to be below 200 mm.

**Following use in sugarcane:** Observe the minimum re-cropping intervals listed above under summer fallow.

### 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 spray within 50 m of wetlands or waterways.

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

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

## **STORAGE AND DISPOSAL**

KEEP OUT OF REACH OF CHILDREN.

Store in the closed, original container, in a dry, cool, well-ventilated area. Do NOT store for prolonged periods in direct sunlight. Triple or preferably pressure rinse containers before disposal. Add rinsate 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.

## **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.

## **FIRST AID**

If poisoning occurs, contact a doctor or Poisons Information Centre. Telephone 131126 Australia-wide.

## **MSDS**

Additional information is listed in the Material Safety Data Sheet.

**CONDITIONS OF SALE:** All conditions and warranties rights and remedies implied by law or arising in contract or tort whether due to the negligence of BASF Australia Ltd. or otherwise are hereby expressly excluded so far as the same may legally be done provided however that any rights of the Buyer pursuant to non excludable conditions or warranties of the Trade Practices Act 1974 or any relevant legislation of any State are expressly preserved but the liability of BASF Australia Ltd. or any intermediate Seller pursuant thereto shall be limited if so permitted by the said legislation to the replacement of the goods sold or the supply of equivalent goods and all liability for indirect or consequential loss or damage of whatsoever nature is expressly excluded. This product must be used or applied strictly in accordance with the instructions appearing hereon. This product is solely sold for use in Australia and must not be exported without the prior written consent of BASF Australia Ltd.

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NRA Approval No.: 48034

THIS PRODUCT IS NOT CONSIDERED TO BE A  
DANGEROUS GOOD UNDER THE AUSTRALIAN CODE  
FOR THE TRANSPORT OF DANGEROUS GOODS BY  
ROAD AND RAIL

FOR SPECIALIST ADVICE IN AN  
**EMERGENCY ONLY**  
**PHONE 1 800 033 111**  
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**DIRECTIONS FOR USE**

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

SITUATION	WEEDS CONTROLLED	RATE mL/ha	CRITICAL COMMENTS
Fallow prior to planting wheat, barley or chickpea (Qld and Nthn NSW only)	Barnyard grass ( <i>Echinochloa colona</i> ), liverseed grass ( <i>Urochloa panicoides</i> ), stink grass ( <i>Eragrostis ciliaris</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>Ipomea lonchophylla</i> )	150 to 200	Treatments may be applied from the end of the previous crop harvest but not less than 4 months prior to planting of winter crop. 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. Emergent weeds must be controlled by prior cultivation, or by application of a knockdown herbicide. Where infestation of emergent weeds is light, tank mix treatment with Roundup <sup>CT</sup> or Pacer <sup>+</sup> Soltech <sup>+</sup> Herbicide. Cultivation following application of treatments may reduce pre-emergence weed control provided by FLAME. 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.
Sugarcane (Pre-emergence to variety Q124 only) (Qld, NSW and WA only)	Cobbler's peg ( <i>Bidens pilosa</i> ), common sida ( <i>Sida rhombifolia</i> ), glossy nightshade ( <i>Solanum americanum</i> ), green amaranth ( <i>Amaranthus viridis</i> ), green summer grass ( <i>Brachiaria subquadrifida</i> ), <i>Ipomoea</i> spp., milkweed (Mexican fire plant) ( <i>Euphorbia heterophylla</i> ), summer grass ( <i>Digitaria ciliaris</i> )	400	Do NOT apply to emerged sugarcane as damage may result. <b>PLANT CANE:</b> Apply after planting and before emergence of the sugarcane. <b>RATOON:</b> Apply after harvest and before new cane growth appears. 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 depth of 5 cm. Emergent weeds must be controlled by prior cultivation, or application of an appropriate herbicide. Cultivation following application of treatments may reduce pre-emergence weed control provided by FLAME. Heavy rain immediately after application may concentrate FLAME in the furrow and cause temporary yellowing of cane leaves. Prolonged wet soil conditions following treatment will reduce the effective period of weed control. Weed escapes may require follow-up application of an appropriate herbicide.

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

**WITHHOLDING PERIOD:** WHEAT, BARLEY, CHICKPEA STUBBLE: DO NOT GRAZE TREATED STUBBLE OR WEEDS WITHIN 4 WEEKS AFTER TREATMENT. SUGARCANE: NOT REQUIRED WHEN USED AS DIRECTED.

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***Acknowledgments:***

Collated by HerbiGuide. Phone 08 98444064 for more information.