



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

FRONTIER-P® HERBICIDE

ACTIVE CONSTITUENT: 720 g/L DIMETHENAMID-P

GROUP	K	HERBICIDE
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For the control of certain broadleaf and grass weeds in green beans, navy beans, sweet corn, corn, poppies, green peas, pumpkins and kabocha, as specified in the DIRECTIONS FOR USE table

IMPORTANT: READ THE ATTACHED LEAFLET BEFORE USE

CONTENTS: 5, 10, 20 & 110 Litres

STORAGE AND DISPOSAL

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 burn empty containers or product.

SAFETY DIRECTIONS

Harmful if swallowed. Will irritate the eyes and skin. Repeated exposure may cause allergic disorders. Sensitive workers should use protective clothing. Avoid contact with eyes and skin. If product is in eyes, wash it out immediately with water. When opening the container and preparing spray wear cotton overalls buttoned to the neck and wrist, a washable hat, elbow-length PVC gloves and faceshield or goggles. When using the prepared spray wear cotton overalls buttoned to the neck and wrist, a washable hat and elbow-length PVC gloves. Wash hands after use.

FIRST AID

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

MATERIAL SAFETY DATA SHEET

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.

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 1800 033 111 TOLL FREE-ALL HOURS-AUSTRALIA WIDE

APVMA Approval No: 56059/51601

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Batch No:

Date of Manufacture:

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IMPORTANT: READ THIS LEAFLET BEFORE USE

CONTENTS: 5, 10, 20 & 110 Litres

DIRECTIONS FOR USE:**RESTRAINTS**

DO NOT apply to green beans, navy beans, green peas, pumpkins, kabocha, corn or sweet corn crops sown in soils with a cation exchange capacity (CEC) of less than 5 meq / 100 g (or cmol / kg) OR soils with a clay content of less than 10% AND organic carbon content of less than 2%.

DO NOT apply through aircraft or irrigation equipment.

CROP & STAGE	WEEDS CONTROLLED	RATE PER HA	CRITICAL COMMENTS
	POST-EMERGENCE		
Poppies (2 – 6 leaf stage)	Pinkweed / Fumitory (<i>Fumaria</i> spp) Cotyledon to 2 leaf stage	1.4 L	Apply FRONTIER-P when the pinkweed is at the cotyledon to 2 leaf stages and the crop is at the early 2 leaf to 6 leaf stages. A follow-up spray of Starane™ must be applied within 15 days for complete control of pinkweed. For improved post-emergent control of other weeds, such as hogweed (<i>Polygonum aviculare</i>), fat hen (<i>Chenopodium album</i>) and blackberry nightshade (<i>Solanum nigrum</i>), Command™ Herbicide should be tank mixed with FRONTIER-P. Do NOT tank mix FRONTIER-P with Brodal™.
	PRE-EMERGENCE		
Sweet Corn, Corn (Maize), Green Beans, Navy Beans, Green Peas, Pumpkins, Kabocha	Toad Rush (<i>Juncus bufonius</i>)	150 to 200 mL	Apply at or immediately after sowing and before crops and weeds emerge. Apply to moist soil. Rain or irrigation following application is desirable. Use rates toward the higher end of the range where longer residual control is required.
	Crowsfoot Grass (<i>Eleusine indica</i>)	500 mL to 1.0 L	FRONTIER-P is mainly absorbed by the emerging shoot (coleoptile). FRONTIER-P must be present in the top soil layer as the weeds germinate and the coleoptiles pass through the treated soil layer. Apply at or immediately after sowing and preferably before crops and weeds germinate. Emerged, or soon to emerge, weeds present at the time of application are unlikely to be controlled. Delays in applying FRONTIER-P after sowing, particularly if irrigation or rain moistens soil and initiates germination before the application of FRONTIER-P, will lead to reduced control. Apply to moist soil if possible. If applied to dry soil, irrigation or rain must follow soon after application for best results. Irrigation or rain is required within 7 days after application.
	Wild Hops / Apple of Peru (<i>Nicandra physaloides</i>) Summer Grass (<i>Digitaria ciliaris</i>) Barnyard Grass (<i>Echinochloa crus-galli</i>)	700 mL to 1.0 L	
	(<i>Amaranthus</i> spp.) Fat Hen (<i>Chenopodium album</i>) Blackberry Nightshade (<i>Solanum nigrum</i>) Giant or Black Pigweed (<i>Trianthema portulacastrum</i>) Sow or Milk Thistle (<i>Sonchus oleraceus</i>) Brazilian White-eye (<i>Richardia brasiliensis</i>) Shepherd's Purse (<i>Capsella bursa-pastoris</i>)	1.0 L	
			FRONTIER-P is best applied to freshly prepared soil with fine tilth and as soon as possible after sowing.

Sweet Corn, Corn (Maize), Green Beans, Navy Beans, Green Peas, Pumpkins, Kabocha	Suppression of; Ryegrass (<i>Lolium</i> spp.) Subterranean Clover (<i>Trifolium subterraneum</i>) White Clover (<i>Trifolium repens</i>) Pigweed (<i>Portulaca oleracea</i>) Pale Pigeon Grass (<i>Setaria glauca</i>) Stoncrop (<i>Crassula sieberiana</i>) Scrambling Speedwell (<i>Veronica persica</i>) Pennyroyal (<i>Mentha pulegium</i>) Bittercress (<i>Coronopus didymus</i>)	1.0 L	Use the lower rate on light textured, low organic matter, low CEC soils and the higher rate on heavier textured soils as per the tables below. Refer to CROP SAFETY section. FRONTIER-P can be used on trickle irrigated fields if rain or overhead irrigation follows application or the trickle irrigation sufficiently moistens the soil surface. Untreated soil thrown onto treated areas will reduce weed control. Do not disturb the FRONTIER-P treated soil layer as this may lead to weed emergence. Application to crop trash covering the soil surface may lead to reduced control. Do not use on soil in which crops will be transplanted nor over already transplanted crops.
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NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION.

WITHHOLDING PERIODS

GRAZING

GREEN BEANS, NAVY BEANS, GREEN PEAS, CORN, SWEET CORN, PUMPKINS, KABOCHA: DO NOT GRAZE OR CUT FOR STOCKFEED FOR 4 WEEKS AFTER APPLICATION.

HARVEST

GREEN BEANS, NAVY BEANS, GREEN PEAS, CORN, SWEET CORN, PUMPKINS, KABOCHA: NOT REQUIRED WHEN USED AS DIRECTED.

POPPIES: DO NOT HARVEST FOR 100 DAYS AFTER APPLICATION.

GENERAL INSTRUCTIONS

FRONTIER-P is a selective pre-emergent herbicide for control of weeds in sweet corn, corn (maize), green beans, navy beans, green peas, pumpkins and kabocha. FRONTIER-P controls susceptible germinating seedlings before or soon after they emerge from the soil. FRONTIER-P will not control emerged weeds except cotyledon to two leaf pinkweed (fumitory) in 2 to 6 leaf poppy crops. FRONTIER-P will be most effective when incorporated by rainfall or overhead irrigation prior to weed germination. Reduced weed control may occur when trickle irrigation is used and there is insufficient soil surface moisture.

MIXING

Add the required amount of herbicide directly to the partly filled spray tank with agitation running. Complete filling and maintain agitation until spraying is complete.

APPLICATION

Apply FRONTIER-P with a calibrated boom spray equipped with flat fan nozzles in a spray volume of 200 to 300 L/ha.

Do NOT apply by aircraft.

For medium quality spray (BCPC/ASAE);

DO NOT apply if waterbodies, watercourses or wetlands are within 20 metres downwind of the application area.

DO NOT apply if non-target vegetation is within 15 metres downwind of the application area.

For fine quality spray (BCPC/ASAE) or an undefined spray quality;

DO NOT apply if waterbodies, watercourses or wetlands are within 50 metres downwind of the application area.
DO NOT apply if non-target vegetation is within 40 metres downwind of the application area.

EQUIPMENT CLEAN-UP

Clean application equipment thoroughly using a strong detergent or tank cleaner. Rinse equipment thoroughly before re-use.

COMPATIBILITY

FRONTIER-P is compatible with Command, atrazine, Gesaprim® and Stomp®. Do NOT mix FRONTIER-P with Brodal.

RESISTANCE WARNING

GROUP	K	HERBICIDE
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FRONTIER-P Herbicide is a member of the amide group of herbicides. The product has the herbicides with diverse sites of action mode of action. For weed resistance management, the product is a Group K herbicide.

Some naturally occurring weed biotypes resistant to the product and other amide 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 amide herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, BASF Australia accepts no liability for any losses that may result from the failure of this product to control resistant weeds.

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 transplant brassicas, plant potatoes or sow crops other than green beans, kabocha, green peas, pumpkins, corn and sweet corn within 6 months of application of FRONTIER-P.

Do NOT sow carrots or pyrethrum within 12 months of application of FRONTIER-P.

CROP SAFETY

Injury to green beans, kabocha, green peas, pumpkins, corn and sweet corn may occur at label rates on soils with very low cation exchange capacity (CEC). Soils containing low levels of clay and organic matter normally have a low CEC.

Do NOT apply to green beans, kabocha, green peas, pumpkins, corn or sweet corn crops grown on soils with a cation exchange capacity (CEC) of less than 5 meq / 100g (or cmol / kg) OR soils with a clay content of less than 10 % AND organic carbon content of less than 2%.

CEC (meq/100 g or cmol/kg)	FRONTIER-P Rate
<5	Do not use FRONTIER-P
5-9	500 to 700 mL/ha
9-14	700 mL to 1.0 L/ha
>14	1.0 L/ha

Soil Texture	Clay Content	Organic Carbon Content	
		<2%	>2%
Sand, Loamy Sand, Silt	<10%	Do not use FRONTIER-P	500 - 700 mL/ha
Loam, Sandy Loam, Silt Loam	10-15%	500 - 700 mL/ha	700 mL - 1 L/ha
Sandy Clay Loam, Clay Loam, Silt Clay Loam, Silty Clay, Sandy Clay, Clay	>15%	1 L/ha	1 L/ha

Before treating large areas of new plant varieties with FRONTIER-P, treat a small area first and determine the level of tolerance to FRONTIER-P at the applied rate.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Toxic to fish. Toxic to bees. This product is very highly toxic to algae and aquatic plants. Do NOT contaminate streams, rivers or waterways with the chemical or used containers. FRONTIER-P Herbicide should be prevented from entering waterways. DO NOT apply if heavy rain is expected within 48 hours. After spraying, DO NOT irrigate to the point of run-off within 48 hours of application.

STORAGE AND DISPOSAL

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 burn empty containers or product.

SAFETY DIRECTIONS

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RE-ENTRY

Do not allow entry into treated areas until the spray has dried unless wearing cotton overalls buttoned to the neck and wrist (or equivalent clothing) and chemical resistant gloves.

FIRST AID

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

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