

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

BUTISAN[®] HERBICIDE

ACTIVE CONSTITUENT: 500 g/L METAZACHLOR

GROUP	K	HERBICIDE
-------	----------	-----------

For the pre-emergent control of various grass and broadleaved weeds in canola as per the Directions for Use Table.

IMPORTANT: READ THE ATTACHED LEAFLET BEFORE USING THIS PRODUCT

CONTENTS: 1 L, 3 L, 5 L, 10 L, 20 L, 110 L, 1000 L

BASF Australia Ltd ABN 62 008 437 867
Level 12, 28 Freshwater Place Southbank VICTORIA 3006
Website: www.crop-solutions.basf.com.au

® Registered trademark of BASF

APVMA Approval No.: 80664/118676

RESTRAINTS

DO NOT apply by aerial application.

DO NOT apply if heavy rain has been forecast within 48 hours.

DO NOT apply to waterlogged soil.

SPRAY DRIFT RESTRAINTS

DO NOT apply with spray droplets smaller than a **MEDIUM** spray droplet size category according to nozzle manufacturer specifications that refer to the ASAE S572 Standard or the BCPC Guideline.

DO NOT apply when wind speed is less than 3 or more than 20 kilometres per hour as measured at the **application site**.

DO NOT apply during surface temperature inversion conditions at the application site

Users of this product **MUST make an accurate written record** of the details of each spray application within 24 hours following application and **KEEP** this record for a minimum of 2 years. The spray application details that must be recorded are: **1)** date with start and finish times of application; **2)** location address and paddock/s sprayed; **3)** full name of this product; **4)** amount of product used per hectare and number of hectares applied to; **5)** crop/situation and weed/pest; **6)** wind speed and direction during application; **7)** air temperature and relative humidity during application; **8)** nozzle brand, type, spray angle nozzle capacity and spray system pressure measured during application; **9)** name and address of person applying this product. (Additional record details may be required by the state or territory by the state or territory where this product is used.)

MANDATORY NO-SPRAY ZONES

DO NOT apply if there are aquatic or wetland areas including aquacultural ponds, surface streams and rivers downwind from the application area and within the mandatory no-spray zones shown in the table below:

Table 1 – No-spray zones for protection of the aquatic environment	
	Downwind Mandatory No-Spray Zone
For ground application	
From 3 to 20 kilometres per hour	50 metres

DO NOT apply if there are sensitive crops, gardens, landscaping vegetation, protected native vegetation or protected animal habitat downwind from the application area and within the mandatory no-spray zones shown in the table below:

Table 2 – No-spray zones for protection of the terrestrial environment	
	Downwind Mandatory No-Spray Zone
For ground application	
From 3 to 20 kilometres per hour	20 metres

DIRECTIONS FOR USE

CROP	WEEDS	RATE (L/ha)	CRITICAL COMMENTS
Canola	Annual ryegrass (<i>Lolium rigidum</i>)	1.5-1.8	Use higher rate when conditions are not optimal or where a heavy weed population is expected.
	Barley grass (<i>Hordeum leporinum</i>) Brome grass (<i>Bromus</i> spp.) Capeweed (<i>Arctotheca calendula</i>) Deadnettle (<i>Lamium amplexicaule</i>) Field-mouse ear chickweed (<i>Cerastium arvense</i>) Fine leaf erodium (<i>Erodium cicutarium</i>) Fleabane (<i>Conyza bonariensis</i>) Milk thistle (<i>Sonchus oleraceus</i>) Shepherd's purse (<i>Capsella bursa-pastoris</i>) Toad rush (<i>Juncus bufonius</i>) Wild oats (<i>Avena</i> spp.) Wireweed (<i>Polygonum aviculare</i>) Suppression only: Clover (<i>Trifolium</i> spp.) Dense crassula (<i>Crassula colorata</i>) Oxalis (<i>Oxalis pes-caprae</i>) Stinging nettle (<i>Urtica dioica</i>)	1.8	<p>Apply pre-sowing and incorporate by sowing (IBS) using knife points and press wheels. For best results apply just before sowing (refer to Interval between Application and Sowing in GENERAL INSTRUCTIONS).</p> <p>Avoid throwing treated soil into adjacent crop rows when sowing with knife points and press wheels.</p> <p>To reduce the risk of crop effects, refer to Crop Safety in GENERAL INSTRUCTIONS.</p> <p>To optimise weed control apply directly to uncultivated soil. Weed control may be greatly reduced where weed seeds have been buried by cultivation prior to sowing and germinate from depth.</p> <p>Weed control may be adversely affected by;</p> <ul style="list-style-type: none"> • uneven application, • application to ridged or cloddy soil, • stubble, plant residue or other ground cover particularly where this exceeds 50%, • germinated and emerged weeds that are not controlled by a knockdown herbicide, • insufficient rainfall within 7 to 10 days after application, • in soils prone to leaching where rainfall which is sufficiently heavy to cause movement of the herbicide out of the weed seed zone. <p>These factors when combined may substantially reduce weed control.</p>

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

WITHHOLDING PERIOD

HARVEST: NOT REQUIRED WHEN USED AS DIRECTED
 GRAZING: DO NOT GRAZE OR CUT FOR STOCKFOOD FOR 12 WEEKS AFTER APPLICATION

GENERAL INSTRUCTIONS

BUTISAN HERBICIDE is a residual herbicide that provides pre-emergence control of selected grass and broadleaved weeds. It is absorbed by the roots of germinating seedlings and translocated primarily by the xylem. Weed control is optimised when BUTISAN HERBICIDE is applied evenly to moist soil just prior to incorporation by sowing and there is sufficient rainfall soon after sowing to ensure activation and uptake of the herbicide by germinating weeds. Weed control may be greatly reduced where weed seeds have been buried by cultivation prior to application. Weed control may also be reduced where there is insufficient soil moisture for herbicide uptake or in soils prone to leaching where rainfall is sufficiently heavy to cause movement of the herbicide out of the weed seed zone. BUTISAN HERBICIDE will not reliably control emerged weeds. A knockdown herbicide should be used to control emerged weeds at sowing.

INCORPORATION BY SOWING

BUTISAN HERBICIDE should be applied prior to sowing, and incorporated by sowing using knife points and press wheels as soon as practicable. Weeds germinating in the seed row may not be controlled. Weeds germinating from depth, weeds just about to emerge, or weeds that have emerged which are not controlled by a knockdown herbicide at sowing may not be controlled by BUTISAN HERBICIDE.

Caution not to throw treated soil from one sowing furrow into an adjacent furrow should be followed as this may result in crop damage.

COMPATIBILITY

BUTISAN Herbicide is physically compatible with any one of the following herbicides: glyphosate IPA salt (Roundup® 450 CT), glyphosate dual salt (Weedmaster® ARGO®, Weedmaster DST®), glyphosate monoethanolamine salt (Wipeout® Pro), paraquat (Gramoxone® 250), carfentrazone-ethyl (Hammer® 400 EC), bifenthrin (Talstar® 250 EC), oxyfluorfen (Striker® Herbicide, GoalTender® Herbicide), Stomp® Xtra Herbicide, atrazine, propyzamide, terbutylazine and triallate.

BUTISAN Herbicide is NOT compatible with glyphosate potassium salt (e.g. Roundup Ultramax), Gramoxone® 360 Pro or trifluralin.

CROP SAFETY

Crop selectivity is achieved through separation of the seed from the herbicide treated band. Use knife points and press wheels to provide good separation of herbicide and closure of the planting row. In situations where a concentration of herbicide occurs in the planting row or at the planted crop seed, this may cause crop damage. Therefore situations such as the following may result in potential crop damage:

- Deep planting furrows where soil infills into the planted furrow via such circumstances as wind or rain
- Heavy rainfall after application and before crop emergence particularly in soils with higher potential for leaching

Other stress events on the crop such as frost, waterlogging, disease, insect attack or vigour reductions from other tank mixed herbicides, and vigour reductions from some seed treatments may increase the potential for crop damage.

RECRIPPING INTERVAL

Crops	Minimal cropping interval
All crops including Wheat, Durum, Barley, Oats, Field peas, Chickpeas, Lupins	12 months

RESISTANT WEEDS WARNING

GROUP	K	HERBICIDE
-------	----------	-----------

BUTISAN is a member of the chloroacetamide group of herbicides and has the inhibitor of very long chain fatty acids (VLCFA inhibitors) mode of action. For weed resistance management BUTISAN is a Group K herbicide. Some naturally-occurring weed biotypes resistant to BUTISAN, and other Group K herbicides, may exist through normal genetic variability in any weed population. These resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds will not be controlled by BUTISAN or other Group K herbicides. Do not rely exclusively on BUTISAN for weed control. Use as part of an integrated weed management program involving herbicides with other modes of action and non-chemical methods of control. CropLife Australia resistance management strategies are available from your local agricultural chemical supplier or at the CropLife Australia website (www.croplifeaustralia.org.au). Refer to these strategies for details of how to manage the build-up of resistant weeds on your farm. Since occurrence of resistant weeds is difficult to detect prior to use BASF accepts no liability for any losses that may result from the failure of BUTISAN to control resistant weeds.

TIMING

Incorporation by sowing as soon as practicable after application of BUTISAN HERBICIDE, but no later than 3 days after application.

MIXING

Ensure sprayer and nozzle filters are clean before preparing the spray mixture. Half fill the spray tank with water and, with the agitators in motion, add the correct amount of BUTISAN HERBICIDE directly to the spray tank. Complete filling the tank with agitators in motion. Agitation must continue before and during spraying.

With glyphosate, paraquat, carfentrazone or oxyfluorfen (see compatibility section above):

Prepare only enough spray solution for immediate application and use promptly while maintaining constant agitation. Do not stand overnight. Mixtures with individual products should be tested before mixing or applying in commercial quantities. Contact your local BASF representative for further information.

APPLICATION

Ground sprayers

Apply BUTISAN HERBICIDE as a broadcast application using a conventional boom sprayer with either mechanical or by-pass agitation. Spray equipment should be properly calibrated to ensure correct and uniform spray coverage of soil is achieved. Use a spray volume of 80 to 250 litres per hectare. To minimise off-target drift use the lowest pressure and boom height which provides uniform coverage. Ensure complete and even spray coverage of the soil is achieved. Poor spray coverage may result from application to ridged or excessively cloddy soil or in situations of high stubble, plant residue or other ground cover. A significant reduction in weed control may result where stubble, plant residue or other ground cover exceeds 50%, and in situations where a 'cold' or incomplete burn of stubble results in a mass of material which can act as a physical barrier between the herbicide and germinating weeds - this can be exacerbated in header trails where there may be greater weed seed numbers and higher levels of plant residue. Weed control can be particularly affected where BUTISAN HERBICIDE is applied to a barrier of stubble, plant residue or other ground cover and there is insufficient following rainfall to transfer the herbicide to the soil surface and the germinating weed seeds.

Aerial sprayers

DO NOT apply BUTISAN HERBICIDE by aircraft.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

DO NOT apply under weather conditions, or from spray equipment, which may cause spray drift onto nearby susceptible plants, adjacent crops, or pastures.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Highly toxic to aquatic life. DO NOT contaminate streams, rivers or watercourses with the chemical or used containers.

STORAGE AND DISPOSAL

Store in the closed, original container in a dry, cool, well ventilated area out of direct sunlight. Triple 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 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. May irritate the eyes. Avoid contact with eyes. Wash hands after use.

FIRST AID

If poisoning occurs contact a doctor or Poisons Information Centre. Phone Australia 13 11 26.

SAFETY DATA SHEET

For further information refer to the Safety Data Sheet (SDS).

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 Competition and Consumer Act 2010 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.

© Copyright 2019

BUTISAN® = Registered trademark of BASF

APVMA Approval No: 80664/118676

Batch No:

Date of Manufacture:

BASF Australia Ltd
ABN 62 008 437 867
Level 12, 28 Freshwater Place
Southbank VICTORIA 3006

FOR SPECIALIST ADVICE IN AN EMERGENCY ONLY PHONE 1800 803 440 TOLL FREE-ALL HOURS-AUSTRALIA WIDE

BUTISAN HERBICIDE

500 g/L METAZACHLOR

HAZARD STATEMENT

Suspected of causing cancer.

PRECAUTIONARY STATEMENTS (Prevention)

DO NOT handle until all safety precautions have been read and understood. Wash contaminated body parts thoroughly after handling. DO NOT eat, drink, or smoke when using this product. Wear protective gloves/clothing/eye protection.

PRECAUTIONARY STATEMENTS (Response)

IF SWALLOWED: Call POISON CENTER or doctor/physician if you feel unwell. If exposed or concerned: Get medical advice/attention. Rinse mouth. If medical advice is needed, have product container or label at hand. Collect spillage.

PRECAUTIONARY STATEMENTS (Storage)

Store locked up