

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

TITAN

BUTAFENACIL 200 EC

HERBICIDE

ACTIVE CONSTITUENT: 200g/L BUTAFENACIL
ALSO CONTAINS: 3g/L polyethanox (15) tallow amine

GROUP **14** HERBICIDE

For the control of Marshmallow in fallow or prior to the establishment of cereal crops.

APVMA Approval No.: 90360/130041

Pack Size: 5L to 20L



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IN A TRANSPORT EMERGENCY
DIAL 000
POLICE OR FIRE BRIGADE

TRANSPORT AND HANDLING
NOT A DANGEROUS GOOD
ACCORDING TO THE AUSTRALIAN
DANGEROUS GOODS (ADG) CODE
FOR TRANSPORT BY ROAD AND RAIL

DIRECTIONS FOR USE

Restraints:

For Professional Use only.

DO NOT apply by aircraft, apply by ground boom only.

DO NOT make more than 1 application per season.

DO NOT apply if heavy rain or storms are forecast within 48 hours.

DO NOT irrigate to the point of run-off for at least 48 hours after application.

DO NOT spray weeds which are waterlogged, under stress of any kind or covered with soil or dust.

DO NOT spray weeds covered with heavy dew.

DO NOT sow or cultivate for 1 hour after spraying.

DO NOT use prior to the sowing of crops undersown with pasture species or vetch.

DO NOT tank mix with other formulations of Butafenacil.

DO NOT use if other formulations of Butafenacil are to be used in the same season.

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 tables 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 or two hours after sunrise.

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

- Spray droplets not smaller than a VERY COARSE **spray droplet size category**.
- Minimum distances between the **application site** and downwind **sensitive areas** (see 'Mandatory downwind buffer zones' section of the following table titled 'Buffer zones for boom sprayers') are observed.

Buffer Zones for Boom Sprayers		
For ground application		
Tank mix partner	Downwind mandatory no-spray zone	
	Aquatic	Terrestrial
Glyphosate	20 metres	0 metres

Read and follow the label directions on mandatory no-spray zones of the tank mix product.

SITUATION	WEEDS CONTROLLED	STATE	RATE	CRITICAL COMMENTS
Fallows Cultivated or non-cultivated as an aid in establishing or maintaining a fallow Prior to the establishment of cereals	Marshmallow (<i>Malva parviflora</i>)	ALL STATES	60 to 80mL/ha + glyphosate at labelled rates	DO NOT make more than 1 application per season. RATE SELECTION: Use the higher rate where weeds are stressed, there is significant overlap of target weed leaves, where targeting larger weeds or when applying in spring or summer. Always use an adjuvant at recommended label rates, eg Esterified vegetable oil, eg TITAN Duelling Adjuvant, crop oil concentrate, eg TITAN Activ8 Surfactant, or a non-ionic wetter.

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:

Fallows or Cereals: DO NOT GRAZE OR CUT SPRAYED VEGETATION FOR STOCK FOOD FOR AT LEAST 6 WEEKS AFTER APPLICATION.

Cereals: DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 6 WEEKS AFTER APPLICATION.

GENERAL INSTRUCTIONS

TITAN Butafenacil 200 EC Herbicide quickly kills Marshmallow when applied directly to the leaf.

Effects may not be apparent for 3 days or longer under cool, cloudy conditions. Apply treatments to weeds which have at least one true leaf to provide an adequate surface area for herbicide uptake. TITAN Butafenacil 200 EC Herbicide may be used prior to sowing any cereal crop. Weeds should be actively growing at time of treatment.

DO NOT treat weeds under poor growing or dormant conditions (such as occur in drought, waterlogging, disease, insect damage or following frosts) as reduced weed control may result.

Reduced results may also occur when treating weeds heavily covered with dust or silt. Prior herbicide application may also induce stress in weeds. Rainfall occurring up to 6 hours after application may reduce effectiveness. Heavy rainfall within 2 hours after application may wash the chemical off the foliage and a repeat treatment may be required. Delay treatment of plants wet with dew or rain, if water droplets run-off when plants are disturbed. Avoid contact with foliage, green stems or fruit of crops, desirable plants and trees, since severe injury or destruction may result.

Crop Establishment

TITAN Butafenacil 200 EC Herbicide is recommended for control of emerged Marshmallow weeds prior to crop establishment. Suitable cultivation and/or sowing operations are required to provide seedbed conditions satisfactory for crop germination and development.

Spraying early to control young weeds will favour preparation of suitable seedbeds. On friable soils and where there is only light cover of young weeds, sowing may proceed satisfactorily from one day after spraying. In situations of heavy weed growth sowing should be delayed until weed decay and soil conditions allow formation of a satisfactory seedbed.

Incorporation of green or decaying vegetation and roots into the seedbed by cultivation or sowing may cause retarded crop emergence, particularly in cold and/or wet conditions.

MIXING

DO NOT mix, load or apply this product within 20m of any well, sink hole, intermittent or perennial stream.

1. Fill the spray tank with one half the required amount of clean water and add the required amount of TITAN Butafenacil 200 EC Herbicide.
2. Mix well before adding the glyphosate and remaining portion of water.
3. Add any recommended additional herbicide/insecticide/additive.
4. Add the surfactant near the end of the filling process to minimize foaming. Placing the filling hose below the surface of the spray solution will prevent excessive foaming. Removing hose from tank immediately after filling will prevent back siphoning into water source.

When tank mixing with glyphosate please read and follow all mixing instructions on the glyphosate label. Ensure the sprayer is free of any residue of previous spray materials and use spray solutions promptly.

DO NOT use mechanical agitators as these may cause excessive foaming.

Spray tanks, pumps, lines and nozzles should be thoroughly rinsed with clean water following application to prevent corrosion.

TITAN Butafenacil 200 EC Herbicide efficacy is dependent on good coverage of the target weeds. Limited translocation occurs within the plant so inadequate coverage is likely to result in unacceptable control.

Adjuvants

TITAN Butafenacil 200 EC Herbicide should be used with an adjuvant at recommended label rates, eg Esterified vegetable oil, eg TITAN Duelling Adjuvant, crop oil concentrate, eg TITAN Activ8 Surfactant, or a non-ionic wetter.

Mixing Order

Some products may react with other products if they are not mixed in the correct order. The general mixing order of products should be:

1. Water conditioners or buffers
2. Water dispersible granules (WG)
3. Wettable powders (WP)
4. Flowable or suspension concentrates (SC)
5. Emulsifiable concentrates (EC)
6. Water based or soluble concentrates
7. Oils and wetters

It is important to ensure that each individual component of the tank mix is fully dissolved and in solution before the next product is added to the tank mix, otherwise mixing problems may occur.

Clean up

Thoroughly clean the sprayer using the following procedure when you have finished spraying. Mix only as much spray solution as needed. Immediately after spraying, clean equipment thoroughly using this procedure. Wear appropriate protective clothing.

1. Flush tank, hoses, boom and nozzles with clean water.
2. Prepare a cleaning solution of either 250mL of ALL CLEAR DS per 100L of water or 300mL of household chlorine bleach (containing 4% chlorine) per 100L of water. Ensure bleach used is fresh as it can degrade significantly over time resulting in a reduction in cleaning ability.
3. When available, use a pressure washer to clean the inside of the spray tank with this solution. Take care to wash all parts of the tank, including the inside top surface and lid.
4. Completely fill the sprayer with the cleaning solution to ensure contact of the cleaning solution with all internal surfaces of the tank and plumbing. Start agitation in the sprayer and thoroughly recirculate the cleaning solution for at least 15 minutes. All visible deposits must be removed from the spraying system and in cases where there is the possibility of heavy build-up of residues, the cleaning solution may need to be left in the tank overnight to ensure adequate decontamination of the tank.
5. Flush hoses, spray lines and nozzles for at least 1 minute with the cleaning solution.
6. Dispose of rinsate from steps 1 to 5 in an appropriate manner.
7. Repeat steps 2 to 5.
8. Remove nozzles, screens and strainers and clean separately in the cleaning solution after completing the above procedures. Be careful with filters, as they can be a main source of contamination.
9. Rinse the complete spraying system with clean water.

The above method is only effective if the cleaning solution comes into contact with every surface or contact point that may contain even minute butafenacil herbicide residues.

COMPATIBILITY

TITAN Butafenacil 200 EC Herbicide is compatible with any one of the following products: paraquat + diquat, 360g/L paraquat, 250g/L paraquat, prosulfocarb, trifluralin, triallate, triasulfuron, atrazine, simazine, S-metolachlor, metribuzin, diuron, isoxaflutole, 2,4-D Ester 680.

As formulations of other manufacturer's products are beyond the control of TITAN AG Pty Ltd and the quality of water may vary with location, all mixtures should be tested prior to mixing commercial quantities.

TITAN Butafenacil 200 EC Herbicide must NOT be tank mixed with other formulations of Butafenacil.

RESISTANCE WEEDS WARNING

TITAN Butafenacil 200 EC Herbicide is a member of the pyrimidiniones group of herbicides. TITAN Butafenacil 200 EC Herbicide has the inhibitor of protoporphyrinogen oxidase mode of action. For weed resistance management TITAN Butafenacil 200 EC Herbicide is a Group 14 herbicide. Some naturally occurring weed biotypes resistant to TITAN Butafenacil 200 EC Herbicide and other Group 14 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 TITAN Butafenacil 200 EC Herbicide or other Group 14 herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, TITAN AG Pty Ltd accepts no liability for any losses that may result from the failure of TITAN Butafenacil 200 EC Herbicide to control resistant weeds.

PRECAUTIONS

DO NOT enter treated areas until the spray has dried, unless wearing 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 which may cause spray to drift onto nearby susceptible plants/crops, cropping lands or pastures.

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

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Very toxic to aquatic life. DO NOT contaminate wetlands or watercourses with this product or used containers.



STORAGE AND DISPOSAL

Store in closed original container in a cool, well-ventilated area. DO NOT store for prolonged periods in 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 500mm 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

Will irritate the eyes. May irritate the skin. Avoid contact with eyes and skin. When using together with other products, consult their label safety directions. When opening the container and using the product, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), elbow-length chemical resistant gloves and face shield or goggles. If product in eyes, wash it out immediately with water. Wash hands after use. After each day's use, wash gloves, face shield or goggles and contaminated clothing.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131126; New Zealand 0800 764 766.

SAFETY DATA SHEET

Additional information is listed in the safety data sheet (SDS). A safety data sheet for TITAN Butafenacil 200 EC Herbicide is available from TITAN AG Pty Ltd on request. Call Customer Service on (02) 9999 6655 or visit www.titanag.com.au

CONDITIONS OF SALE: TITAN AG Pty Ltd shall not be liable for any loss injury damage or death whether consequential or otherwise whatsoever or howsoever arising whether through negligence or otherwise in connection with the sale supply use or application of this product. The supply of this product is on the express condition that the purchaser does not rely on TITAN AG's skill or judgment in purchasing or using the same and every person dealing with this product does so at his own risk absolutely. No representative of TITAN AG Pty Ltd has any authority to add to or alter these conditions.

Additional statements required by Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia: Causes eye irritation. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects. **Precautionary Statements:** Do not breathe dust/fume/gas/mist/vapours/spray. Wash thoroughly after handling. Avoid release to the environment. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention if you feel unwell. If eye irritation persists: Get medical advice/attention. Collect spillage. Dispose of contents/container in accordance with local/regional/national regulations.

