

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

Betanal[®]

HERBICIDE SPRAY

Active Constituent: 157 g/L PHENMEDIPHAM

Solvent: 596 g/L ISOPHORONE

GROUP K HERBICIDE

**A contact selective post-emergence herbicide for control of weeds in young
beet crops, mangolds and in non-fruiting strawberries**

GENERAL INSTRUCTIONS

This product acts via the foliage and is to be applied after emergence of the weeds. The effect of spraying can be seen within 2 to 3 days of application. Susceptible weeds are completely killed in 7 to 10 days.

For best results the interval between treatment and rainfall or irrigation should not be less than 6 hours.

Application may follow pre-emergence treatments if required or a second application is possible for later germinating weeds, provided a minimum 7-day interval is observed between treatments.

Resistant Weeds Warning

Betanal Herbicide Spray is a member of the carbamate group of herbicides. Betanal is a herbicide with diverse sites of action. For weed resistance management Betanal is a Group **K** herbicide.

Some naturally-occurring weed biotypes resistant to Betanal, and other Group **K** 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 Betanal or other Group **K** herbicides. Since occurrence of resistant weeds is difficult to detect prior to use, Bayer CropScience Pty Ltd accepts no liability for any losses that may result from the failure of Betanal to control resistant weeds.

Export of Treated Produce

Growers should note that suitable MRLs or import tolerances may not be established in all markets for produce treated with Betanal Herbicide Spray. If you are growing produce for export, please check with Bayer CropScience Pty Ltd for the latest information on MRLs and import tolerances BEFORE using Betanal Herbicide Spray.

Mixing

Half fill the spray tank with water and agitate or stir while adding the required quantity of this product. Trammat 500 SC (if used) should be added at the same time. Top up with water and stir again. Use as soon as possible after mixing.

Spray Equipment

Ensure that the sprayers used to apply this product do not contain residues of other chemicals, since even traces of hormone weedkillers may lead to severe damage of beet.

This product can be applied through any conventional ground spraying boom equipment fitted with fan type nozzles such as "Spraying Systems" (8002 or 8003), "Lurmark" (015F80RG or 02F80YE) and "Silvan" (SF002080 or SF003080). Adjust pump pressure to 200 to 280 kPa for best results, especially for band spraying. Do NOT use high spray pressures. After use, drain the spray system immediately and flush thoroughly with clean water to prevent later blockages.

Compatibility

Do not add herbicides other than Trammat 500 SC to this product. Slight foliage distortion on the crop may occur following treatment with this product plus Trammat 500 SC. These effects are short-lived and do not affect crop yield.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

DO NOT apply under weather conditions or from spraying equipment which could be expected to cause spray to drift onto nearby susceptible plants, adjacent crops, crop lands or pastures.

If using this product plus Trammat 500 SC, DO NOT rotate with any crops other than beets for 6 months after application.

Thorough tillage, including ploughing, should precede the planting of crops other than beets.

If crop is lost due to climatic or soil conditions following the application of this product plus Trammat 500 SC mixture, DO NOT plant crops other than beets in treated soil during the same season.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

DO NOT contaminate streams, rivers or waterways with the chemical or the used container.

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 bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500mm 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 and nose and throat and skin. Avoid contact with eyes and skin. Do not inhale vapour or spray mist. When preparing spray wear elbow-length PVC gloves. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre (telephone 13 11 26).

If swallowed, do NOT induce vomiting. Give a glass of water.

If skin contact occurs, remove contaminated clothing and wash skin thoroughly.

If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.

MATERIAL SAFETY DATA SHEET

Additional information is listed in the Material Safety Data Sheet, which may be obtained from www.bayercropscience.com.au.

EXCLUSION OF LIABILITY

This product must be used strictly as directed, and in accordance with all instructions appearing on the label and in other reference material. So far as it is lawfully able to do so, Bayer CropScience Pty Ltd accepts no liability or responsibility for loss or damage arising from failure to follow such directions and instructions.

NRA Approval No.: 31826/1102

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<p>FOR 24 HOUR SPECIALIST ADVICE IN EMERGENCY ONLY PHONE 1800 033 111</p>

DIRECTIONS FOR USE**Restraints**

DO NOT use extra hard or contaminated water.

DO NOT apply to crops which are wet.

DO NOT apply if temperature exceeds or is likely to exceed 30°C within the following 8 hours.

DO NOT apply to crops in a weak, damaged or stressed condition as severe damage may occur.

DO NOT add other herbicides to this product unless specifically recommended.

DO NOT add wetting agents.

DO NOT use high spray pressures.

CROP	WEEDS CONTROLLED	STATE	RATE	CRITICAL COMMENTS
Beet crops, mangolds, non-fruiting strawberries	Fat hen, chickweed, potato weed, pigweed, common thornapple, bitter cress (Tas. Lesser swine cress), bellvine, penny cress, corn spurry, alkanet, wild radish, common groundsel, charlock, common sowthistle, shepherd's purse, dead nettle, dwarf nettle, common fumitory, redshank (Tas. amaranthus), *green amaranth, *bindweed, *persicaria (Tas. redshank), *winter grass, *blackberry nightshade. *See CRITICAL COMMENTS.	All States	5.5 L/ha	Apply to susceptible weeds at uniform 2 leaf stage with a fine spray using 250 to 300 L water per hectare.
			8.5 L/ha	Apply to susceptible weeds no later than 2 to 4 leaf stage. Use a fine spray with 250 to 300 L water per hectare. Do NOT apply to strawberries from commencement of flowering or during fruiting. *Controlled at the cotyledon stage at the 5.5 L/ha rate, or the 2 to 4 leaf stage at the 8.5 L/ha rate.
Beet crops only	Weeds listed above plus barley grass, summer grass, prairie grass, cleavers, wireweed and winter grass.	Qld, NSW, Vic, Tas, SA only	5 L/ha Betanal plus 2 L/ha Tramat [®] 500 SC	Apply where wider spectrum of weed control and extended activity are required. See also directions on Tramat label. Do NOT spray before crop has at least 2 true leaves or beyond the 4 leaf stage.

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

WITHHOLDING PERIOD

All crops: NOT REQUIRED WHEN USED AS DIRECTED.