



Product Name: BETANAL FLOW HERBICIDE
APVMA Approval No: 64522/107415

Label Name: BETANAL FLOW HERBICIDE

Signal Headings: READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Constituent Statements: 160 g/L PHENMEDIPHAM

Mode of Action: GROUP C HERBICIDE

Statement of Claims: A contact selective post-emergence herbicide for control of weeds in young beetroot, silverbeet and fodder beet crops

Net Contents: 5 L-100 L

Restraints: 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.
DO NOT apply using spraying equipment carried on the back of the user.
DO NOT apply by aircraft.

Directions for Use: This section contains file attachment.

Other Limitations:

Withholding Periods:	<p>Harvest (H) Beetroot: DO NOT HARVEST FOR 8 WEEKS AFTER APPLICATION. Silverbeet: DO NOT HARVEST FOR 4 WEEKS AFTER APPLICATION.</p> <p>Grazing (G) Fodder beet: DO NOT GRAZE OR CUT TREATED AREAS FOR STOCKFOOD FOR 12 WEEKS AFTER APPLICATION.</p>
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Trade Advice:	<p>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 Flow Herbicide. 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 Flow.</p>
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General Instructions:	<p>GENERAL INSTRUCTIONS</p> <p>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.</p> <p>For best results the interval between treatment and rainfall or irrigation should not be less than 6 hours.</p> <p>Mixing Half fill the spray tank with water and agitate or stir while adding the required quantity of this product. Tramat 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.</p> <p>Spray Equipment Ground application 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. Do NOT use high spray pressures. Choose nozzle size and apply at a pressure and speed combination to achieve a water rate of between 250 L/ha – 300 L/ha and a medium to course droplet size. Ensure thorough coverage of weeds and soil is achieved.</p> <p>After use, drain the spray application equipment immediately and flush thoroughly with clean water to prevent later blockages.</p> <p>Application by aircraft DO NOT apply by aircraft</p> <p>Compatibility Do not add herbicides other than Tramat 500 SC to this product. Slight foliage distortion on the crop may occur following treatment with this product plus Tramat 500 SC. These effects are short-lived and do not affect crop yield.</p>
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Resistance Warning:	<p>Resistant Weeds Warning</p> <p>Betalan Flow Herbicide is a member of the phenylcarbamate group of herbicides. Betanal Flow is an inhibitor of photosynthesis at photosystem II. For weed resistance management Betanal Flow is a Group C herbicide. Some naturally-occurring weed biotypes resistant to Betanal Flow, and other Group C 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 Flow or other Group C herbicides.</p>
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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 Flow to control resistant weeds.

Precautions:	PRECAUTIONS Re-entry or Re-handling statement After treating beetroot or fodder beet crops, do not enter treated areas until 9 days after treatment for low exposure activities such as irrigation, scouting, thinning and weeding of plants, 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. After treating silverbeet, do not enter treated areas until 14 days after treatment for low exposure activities such as irrigation, scouting, thinning and weeding of plants, 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.
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Protections:	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 Tramat 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 Tramat 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.
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Storage and Disposal:	STORAGE AND DISPOSAL Store in the closed, original container in a cool, well-ventilated area. Do not store for prolonged periods in direct sunlight. Keep out of reach of children. (All packs except 60 and 100 L) Triple-rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. 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. Do not re-use empty container for any other purpose. (60 and 100 L packs) If tamper evident seals are broken prior to initial use then the integrity of the contents cannot be assured. Empty container by pumping through the dry-break connection system. Do not attempt to unscrew the valve or breach the locked filling point. Do not contaminate the container with water or other foreign material. Ensure that the coupler, pump, meter and hoses are disconnected, triple rinsed with clean water and drained after each use. Contact point of purchase to arrange return or collection of empty containers. This container remains the property of Bayer CropScience Pty Ltd.
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Safety Directions:	SAFETY DIRECTIONS May irritate the skin. Avoid contact with skin. When opening the container, mixing and loading and using the prepared spray, wear cotton overalls (or equivalent clothing) buttoned to the neck and wrists and elbow-length chemical resistant gloves. Wash hands after use. After each day's use, wash gloves and contaminated clothing.
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First Aid Instructions:	<p>FIRST AID</p> <p>If poisoning occurs, contact a doctor or Poisons Information Centre (telephone 13 11 26).</p>
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First Aid Warnings:	
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DIRECTIONS FOR USE

Crop	Weeds controlled	State	Rate	WHP	Comment
Beetroot	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	8 weeks (H)	Apply to susceptible weeds at uniform 2 leaf weed stage with a medium spray quality using 250 to 300 L water per hectare. *Controlled at the cotyledon stage.
Fodder beet				12 weeks (G)	Apply to susceptible weeds at uniform 2 leaf weed stage with a medium spray quality using 250 to 300 L water per hectare. Do not apply before crop has at least 2 true leaves present. *Controlled at the cotyledon stage. Betalan may cause transient crop yellowing soon after application.
Silverbeet				4 weeks (H)	Apply to susceptible weeds at uniform 2 leaf weed stage with a medium spray quality using 250 to 300 L water per hectare. *Controlled at the cotyledon stage.
Beetroot	Weeds listed above plus: Barley grass, summer grass, prairie grass, cleavers, wireweed and winter grass.	Qld, NSW, Vic, Tas, SA only	5 L/ha Betalan Flow plus 2 L/ha Tramat 500 SC	8 weeks (H)	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.
Fodder beet				12 weeks (G)	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. Betalan may cause transient crop yellowing soon after application.

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