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READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Betanal® Flow

HERBICIDE

ACTIVE CONSTITUENT: 160 g/L PHENMEDIPHAM

GROUP 5 HERBICIDE

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

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.
- DO NOT** apply using spraying equipment carried on the back of the user.
- DO NOT** apply by aircraft.

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	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	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			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. Betanal 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.



Betanal Flow

CROP	WEEDS CONTROLLED	STATE	RATE	WHP	COMMENT
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 Betanal 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. Betanal 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.

WITHHOLDING PERIODS

Harvest (H)

Beetroot: DO NOT HARVEST FOR 8 WEEKS AFTER APPLICATION.

Silverbeet: DO NOT HARVEST FOR 4 WEEKS AFTER APPLICATION.

Grazing (G)

Fodder beet: DO NOT GRAZE OR CUT TREATED AREAS FOR STOCKFOOD FOR 12 WEEKS AFTER APPLICATION.

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.

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.

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.

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 coarse droplet size. Ensure thorough coverage of weeds and soil is achieved.

After use, drain the spray application equipment immediately and flush thoroughly with clean water to prevent later blockages.

Application by aircraft

DO NOT apply by aircraft

**COMPATIBILITY**

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

RESISTANT WEEDS WARNING**GROUP 5 HERBICIDE**

Betanal 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 5 herbicide. Some naturally-occurring weed biotypes resistant to Betanal Flow, and other Group 5 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 5 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 Flow to control resistant weeds.

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.

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 Tramet 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 Tramet 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. Keep out of reach of children.

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.

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.

FIRST AID

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

SAFETY DATA SHEET

Additional information is listed in the Safety Data Sheet, which may be obtained from www.crop.bayer.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.

APVMA Approval No.: 64522/107415

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FOR 24 HOUR SPECIALIST ADVICE
IN EMERGENCY ONLY
PHONE 1800 033 111

GHS STATEMENTS

Classification not required according to GHS criteria.