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

Tramat[®] 500 SC

SELECTIVE HERBICIDE

ACTIVE CONSTITUENT: 500 g/L ETHOFUMESATE

GROUP 15 HERBICIDE

For selective weed control in beet crops, onions, oilseed poppies, established turf and other situations as specified in the DIRECTIONS FOR USE table

DIRECTIONS FOR USE

RESTRAINTS

DO NOT apply if rain is imminent or falling.

DO NOT rotate with crops other than beet crops for 6 months after application.

DO NOT use on golf or bowling greens.

DO NOT use on common or hybrid couch grass.

CROP OR SITUATION	WEEDS CONTROLLED	STATE	RATE	WHP	CRITICAL COMMENTS
Beet crops e.g. beetroot, fodder beet, mangolds, sugar beet	Barley grass, chickweed, cleavers, fat-hen, fumitory, prairie grass, redshank (<i>Amaranthus</i> spp.), shepherd's purse, summer grass, winter grass, wireweed	Qld, NSW, Vic, Tas, SA only	4 or 6 L/ha	-	Pre-emergence: Apply before weeds or crop emerges, either pre- or post-sowing of crops. Use high rate on heavy soil or where <i>Amaranthus</i> spp., prairie grass or wireweed are a problem. Do NOT re-treat area at these rates.
			2 L Tramat plus 5 L Betanal [®] /ha		Post-emergence: Crop Stage: Apply at 2 to 4 leaf stage. Weed Stage: Apply when weeds are no larger than 2 to 4 leaf stage, either as a band spray or overall application. Do NOT spray beets using high pressure. Do NOT spray beet crops when foliage is wet.
Oilseed poppy	Certain broad-leaved and grass weeds particularly barley grass, clovers, cruciferous weeds, fat-hen, fumitory, winter grass, wireweed	Tas only	400 mL to 2 L/ha	-	The range of control is extended with spray programs in combinations with asulam, diclofop-methyl and diquat as recommended by poppy contracting companies or the Department of Primary Industry. Do NOT add wetting agent.



CROP OR SITUATION	WEEDS CONTROLLED	STATE	RATE	WHP	CRITICAL COMMENTS
Onions	Certain broad-leaved and grass weeds, particularly barley grass, clovers, cruciferous weeds, fat-hen, fumitory, winter grass, wireweed	Tas only	600 mL to 1.2 L/ha	13 weeks	Apply after 2 leaf stage of crop. Do NOT add wetting agent. Follow up with spray programs using alternative herbicides as recommended by the Department of Primary Industry, or contracting companies for use in onions.
			1 L to 1.2 L plus 2.8 kg active constituent chlorpropham/ha		This mixture, and follow-up spray programs with alternative herbicides, should be used according to recommendations by the Department of Primary Industry or contracting companies. Apply after 2 leaf stage of crop. Do NOT add wetting agent to Tramat.
Ryegrass pasture and seed crops Non-crop areas (stock camps, tree plantations, industrial areas, fence lines)	Barley grass, cleavers, emerged brome grass, seedling chickweed, shepherd's purse, storksbill, winter grass	Vic, Tas only	3 L/ha	7 days (grazing)	Apply (April to July) to moist soil after main germination of barley grass. Do NOT apply once barley grass reaches green flower head stage. Do NOT treat pastures where clover production is important. Use this rate when: 1. Annual rainfall is 250 to 750 mm. 2. Barley grass is at very early growth stage (April to May). 3. Pasture has been closely grazed (less than 5 cm high). 4. Soil is low in organic matter (less than 10%). 5. There is a high proportion of ryegrass in pasture.
			4 L/ha		Use this rate when: 1. Annual rainfall exceeds 750 mm. 2. Barley grass is at early vegetative growth stage (April to July). 3. Pasture has been closely grazed (5 to 10 cm high). 4. Dung accumulations are present.
			300 mL per 100 L water		Spot Treatment: Apply by handgun or knapsack sprayer. Thoroughly wet vegetation.



CROP OR SITUATION	WEEDS CONTROLLED	STATE	RATE	WHP	CRITICAL COMMENTS
Established turf (NOT golf or bowling greens): ryegrass, Kentucky bluegrass, Queensland blue couch, kikuyu, bent grasses (including brown top bent)	Winter grass (<i>Poa annua</i>)	NSW, Vic, Tas, SA, WA only	800 mL in 400 to 600 L water/ha OR 8 mL in 4 to 6 L water per 100 m ²	Refer to WHP instructions below	Apply first application one month before main Autumn germination (i.e. apply in February to April but up to May in Northern NSW). Repeat at monthly intervals for 3 to 4 months. In dry conditions, watering will improve residual action. After spraying, wait at least 12 hours before watering. Avoid flooding or ponding of treated turf. Preferably mow immediately before spraying, or leave as long as possible after spraying before next mowing (1 to 2 weeks if practicable). Water volume is not critical but avoid excessive overlapping and dripping from spray equipment onto turf. DO NOT add other herbicides or surfactants to this product for this use unless specifically recommended.

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

WITHHOLDING PERIOD (WHP)

Beet crops, oilseed poppy:

WITHHOLDING PERIOD NOT REQUIRED WHEN USED AS DIRECTED

Onions:

DO NOT HARVEST FOR 13 WEEKS AFTER APPLICATION

Ryegrass pasture and seed crops:

DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 7 DAYS AFTER APPLICATION

Turf:

DO NOT GRAZE TREATED AREAS OR FEED LAWN (TURF) CLIPPINGS FROM TREATED AREAS TO ANIMALS INCLUDING POULTRY

EXPORT OF TREATED PRODUCE

Growers should note that suitable MRLs or import tolerances may not be established in all markets for produce treated with Tramat 500 SC Selective 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 Tramat.

GENERAL INSTRUCTIONS

General

This product is a pre- and post- emergence herbicide for control of certain broad-leaved weeds and grasses. For post-emergence application, weeds should be at the seedling to 4-leaf stage. Prior to sowing any follow-up crops other than beet or ryegrass, those areas previously treated should be thoroughly tilled (including ploughing).

- 1. BEET CROPS:** Slight foliage distortion to beet may occur following treatment. These effects are short-lived and do not affect crop yield. Pre-emergence treatment with this product may be followed by post-emergence application of Betanal or a mixture of both.
- 2. USE OF TRAMAT IN MIXTURES WITH BETANAL ON BEET CROPS:** Before using this mixture carefully read the Betanal label; note warning about use in temperatures above 30 °C. For best results the interval between treatment and subsequent rainfall or irrigation should be at least six (6) hours. In Tasmania, this treatment should follow the use of a pre-emergence herbicide. This mixture is recommended to provide a wider spectrum of post-emergence weed control and longer residual activity than Betanal used alone. Weeds controlled include additional weeds listed on the Betanal label.
- 3. RYEGRASS:** This product will reduce clover stands by 40 to 60%. For best control of barley grass, apply to closely grazed pasture (3 to 5 cm high). Raw organic matter can reduce efficacy and re-treatment may be necessary. Remove organic litter and harrow large dung pats before application. In areas of dense barley grass, drill or oversow with ryegrass as soon as possible after treatment.

4. **TURF:** This product is selective in ryegrasses, fescues, Kentucky bluegrass, Queensland blue couch, kikuyu and bent grasses (including brown top bent) when applied as directed. However, for new cultivars where the selectivity of Tramat may not have been evaluated, a small test area should be treated and monitored prior to large scale use. Applications are made at monthly intervals for 3 to 4 months to control winter grass gradually, while allowing the desirable turf grasses to take over without unsightly bare patches of dead winter grass. Over-sowing and reseeded should NOT take place within one month of spraying.

Mixing

Tramat is a suspension concentrate which mixes easily with water. Prior to pouring, gently invert or roll container to ensure all active constituent is in suspension. Part-fill the spray tank with clean water. Add the correct amount of Tramat and top up with water to the required level. Thorough agitation of the mixture is necessary before spraying. Mix only enough chemical for immediate use. When using a mixture of Tramat and Betanal, half-fill spray vat with water then stir or agitate while adding the required quantities. Top up with water and stir again. Use as soon as possible after mixing. Do NOT add other herbicides or surfactants unless specifically recommended.

Application

Boom spray: Apply in a suitable volume of water to give good even coverage. When used pre-emergence, apply to moist soil surface. Ensure that the nozzles are set at the correct height to give even coverage i.e. 50 to 60 cm above the pasture, crop or turf. Use a nozzle and pressure combination to give a fine spray (200 to 300 kPa). Make sure nozzle tips are clean, undamaged and all the correct type and size. Impact nozzles or broadcast nozzle clusters should NOT be used. Do NOT use filter gauzes finer than 0.3 mm. After use, wash all equipment thoroughly with water containing liquid detergent. Spray out completely, then rinse twice with clean water. To allow air access, remove nozzles and open spray tank lid.

RESISTANT WEEDS WARNING

GROUP	15	HERBICIDE
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Tramat 500 SC Selective Herbicide is a member of the benzofuran group of herbicides. Tramat is a herbicide with the inhibition of fat synthesis mode of action. For weed resistance management Tramat is a Group 15 herbicide.

Some naturally occurring weed biotypes resistant to Tramat, and other herbicides with diverse sites of action, 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 Tramat or other Group 15 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 Tramat to control resistant weeds.

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.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

DO NOT contaminate streams, rivers or waterways with this product 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 rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site. If recycling, replace caps 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. DO NOT re-use empty containers for any other purpose.

SAFETY DIRECTIONS

May irritate the eyes and skin. Avoid contact with eyes and skin. Wash hands after use.

FIRST AID

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



SAFETY DATA SHEET

Additional information is listed in the Safety Data Sheet, which can 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.

Betanal[®] and Tramat[®] are Registered Trademarks of the Bayer Group

APVMA Approval No.: 39508/127223

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

GHS STATEMENT

Classification not required according to GHS criteria.