

POISON

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

TITAN

CLODINAFOP 240 EC HERBICIDE

ACTIVE CONSTITUENTS: 240g/L CLODINAFOP-PROPARGYL
60g/L CLOQUINTOCET-MEXYL
SOLVENTS: 575g/L LIQUID HYDROCARBONS
100g/L N-METHYL-2-PYRROLIDONE

GROUP **1** HERBICIDE

For the control of Wild Oats, Paradoxa Grass (Annual Phalaris), Canary Grass and Annual Ryegrass in Wheat.
Highly active on Wild Oats and can be mixed with many broadleaf herbicides.

APVMA Approval No.: 65702/51630

Pack Size: 1L; 5L; 10L; 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: DO NOT apply if rainfall is expected within 2 hours.

DO NOT apply to weeds or crops that are under stress. For example, due to very dry, very wet, frosty or diseased conditions, nutrient deficiency or high insect pressure.

DO NOT apply to weeds or crops immediately after a prolonged period of frosts.

DO NOT apply under poor growing conditions.

CROP	WEEDS CONTROLLED	STATE	RATE PER HA	WEED GROWTH STAGE	CRITICAL COMMENTS
Wheat 2 leaf to late jointing (Zadocks 12 – 37)	Wild Oats	QLD, Nthn NSW only	65mL + 1L of D-C-Trate oil or 500mL Dasher* or Infuse* oil per 100L of water	2 to 5 leaf	NOT TO BE TANK MIXED WITH BROADLEAF HERBICIDES AT THESE RATES. Apply at 85mL/ha when weeds are not actively growing. Where low water volumes are used, DO NOT use less than the minimum oil volumes specified (See Minimum Oil Volumes). Cold water: Under cold water conditions (10°C or less), use Dasher instead of D-C Trate or Infuse.
			85mL + 1L of D-C-Trate oil or 500mL Dasher* or Infuse* oil per 100L of water	2 leaf to mid tillering	
			85mL + 1L of D-C-Trate oil or 500mL Dasher* or Infuse* oil per 100L of water	2 to 5 leaf	MAY BE TANK MIXED WITH COMPATIBLE HERBICIDES. Apply in mixtures for broadleaf weed control only when weeds are actively growing. When mixing TITAN Clodinafop 240 EC Herbicide with certain broadleaf weed herbicides some reduction in grass weed control may occur. Unless otherwise specified always use D-C Trate, Infuse or Dasher when tank mixing broadleaf herbicides. Apply at 125mL/ha when weeds are not actively growing. Where low water volumes are used, DO NOT use less than the minimum oil volumes specified (See Minimum Oil Volumes). Cold water: Under cold water conditions (10°C or less), use Dasher instead of D-C Trate or Infuse.
			125mL + 1L of D-C-Trate oil or 500mL Dasher* or Infuse* oil per 100L of water	2 leaf to mid tillering	
		Sthn NSW, VIC, SA, WA only	65mL + 1L of D-C-Trate oil or 500mL Dasher* or Infuse* oil per 100L of water	2 to 5 leaf	MAY BE TANK MIXED WITH COMPATIBLE HERBICIDES. Apply in mixtures for broadleaf weed control only when weeds are actively growing. When mixing TITAN Clodinafop 240 EC Herbicide with certain broadleaf weed herbicides some reduction in grass weed control may occur. Refer to compatibility chart for specific rates for tank mixes. Unless otherwise specified always use D-C Trate, Infuse or Dasher when tank mixing broadleaf herbicides. Apply at 85mL/ha when weeds are not actively growing. Where low water volumes are used, DO NOT use less than the minimum oil volumes specified (See Minimum Oil Volumes). Cold water: Under cold water conditions (10°C or less), use Dasher instead of D-C Trate or Infuse.
			85mL + 1L of D-C-Trate oil or 500mL Dasher* or Infuse* oil per 100L of water	2 leaf to mid tillering	
	Paradoxa Grass (<i>Phalaris paradoxa</i>), Canary Grass (<i>Phalaris minor</i>)	QLD, NSW, VIC, SA only	85mL + 1L of D-C-Trate oil or 500mL Dasher* or Infuse* oil per 100L of water	2 to 3 leaf	NOT TO BE TANK MIXED WITH BROADLEAF HERBICIDES AT BELOW 160mL/ha. Apply in mixtures for broadleaf weed control only when weeds are actively growing. When mixing TITAN Clodinafop 240 EC Herbicide with certain broadleaf weed herbicides some reduction in grass weed control may occur. Apply at 160mL/ha when weeds are not actively growing. Where low water volumes are used, DO NOT use less than the minimum oil volumes specified (See Minimum Oil Volumes). Cold water: Under cold water conditions (10°C or less), use Dasher instead of D-C Trate or Infuse.
			125mL + 1L of D-C-Trate oil or 500mL Dasher* or Infuse* oil per 100L of water	2 to 5 leaf	
			160mL + 1L of D-C-Trate oil or 500mL Dasher* or Infuse* oil per 100L of water	2 leaf to early tillering	
	Annual Ryegrass	NSW, VIC, SA, WA only	160mL + 1L of D-C-Trate oil or 500mL Dasher* or Infuse* oil per 100L of water	2 to 4 leaf	MAY BE TANK MIXED WITH COMPATIBLE HERBICIDES. Apply in mixtures for broadleaf weed control only when weeds are actively growing. When mixing TITAN Clodinafop 240 EC Herbicide with certain broadleaf weed herbicides some reduction in grass weed control may occur. Apply at 210mL/ha when weeds are not actively growing. Where low water volumes are used, DO NOT use less than the minimum oil volumes specified (See Minimum Oil Volumes). Cold water: Under cold water conditions (10°C or less), use Dasher instead of D-C Trate or Infuse.
			210mL + 1L of D-C-Trate oil or 500mL Dasher* or Infuse* oil per 100L of water	2 leaf to early tillering	

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

WITHHOLDING PERIODS:

HARVESTED GRAIN: WITHHOLDING PERIOD NOT REQUIRED WHEN USED AS DIRECTED.

ANIMAL GRAZING/FEEDING: DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 4 WEEKS AFTER APPLICATION.



GENERAL INSTRUCTIONS

TITAN Clodinafop 240 EC Selective Herbicide should be applied only when weeds are actively growing.

RESISTANT WEEDS WARNING

TITAN Clodinafop 240 EC Herbicide is a member of the aryloxyphenoxypropionate ('fop') group of herbicides. TITAN Clodinafop 240 EC Herbicide has the inhibition of fat (lipid) synthesis, (or inhibitors of acetyl CoA carboxylase) mode of action. For weed resistance management TITAN Clodinafop 240 EC Herbicide is a Group 1 herbicide. Some naturally-occurring weed biotypes resistant to TITAN Clodinafop 240 EC Herbicide and other Group 1 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 Clodinafop 240 EC Herbicide or other Group 1 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 Clodinafop 240 EC Herbicide to control resistant weeds.

Weed biotypes resistant to diclofop-methyl and other 'grass specific' herbicides can also often be resistant to TITAN Clodinafop 240 EC Herbicide. Before using TITAN Clodinafop 240 EC Herbicide on a population resistant to or suspected to be resistant to 'grass specific' herbicides, have a resistance test conducted to ensure that it is susceptible to TITAN Clodinafop 240 EC Herbicide.

Large numbers of healthy surviving weeds can be an indication that resistance is developing. Efforts should be made to prevent seed set of the surviving weeds. DO NOT make more than one application of a Group A herbicide with the inhibition of fat (lipid) synthesis (or inhibitors of acetyl CoA carboxylase) mode-of-action to a crop in the same season.

If the user suspects that the target weed population is resistant to herbicides with this mode of action, TITAN Clodinafop 240 EC Herbicide or other Group A herbicides should not be used. Strategies to minimize the risk of herbicide resistance are available. The above recommendations should be incorporated into an Integrated Weed Management (IWM) Program. Consult your farm chemical supplier, consultant, local Department of Agriculture or Primary Industries, or local TITAN AG representative for details.

MIXING

Fill the spray tank to one quarter full. Then add TITAN Clodinafop 240 EC Herbicide while adding water to make up the final spray volume. Pour TITAN Clodinafop 240 EC Herbicide into the stream of incoming water. Good agitation at the time TITAN Clodinafop 240 EC Herbicide is added to the tank will ensure good mixing. Add the required amount of D-C-Trate*, Dasher*, or Infuse* oil just before the tank is full of water and with the agitators in motion.

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 –

- I. Water conditioners or buffers
- II. Water dispersible granules (WG)
- III. Wettable powders (WP)
- IV. Flowable or suspension concentrates (SC)
- V. Emulsifiable concentrates (EC) (TITAN Clodinafop 240 EC Herbicide)
- VI. Water based or soluble concentrates
- VII. Oils and wetters – eg Dasher, Cropwett

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.

Minimum Oil Volumes

The minimum amount of oil to be applied with TITAN Clodinafop 240 EC Herbicide will depend on the type of oil used. When applying TITAN Clodinafop 240 EC Herbicide using low water volumes, DO NOT use less than the minimum oil volumes specified below:

- For oils normally applied at 1% v/v (eg D-C-Trate), DO NOT apply less than 500mL oil/ha.
- For oils normally applied at 0.5% v/v (eg Dasher), DO NOT apply less than 250mL oil/ha.

CLEANING SPRAY EQUIPMENT

After using TITAN Clodinafop 240 EC Herbicide, empty the tank completely and drain the whole system. Thoroughly wash inside the tank using a pressure hose, drain the tank and clean any filters in the tank, pump, line and nozzles.

To rinse: After cleaning the tank as above, quarter fill the tank with clean water and circulate through the pump, lines, hoses and nozzles. Drain and repeat the rinsing procedure twice.

To decontaminate: Before spraying cereals (except wheat), maize, sorghum or other sensitive crops, wash the tank and rinse the system as above. Drain and repeat the rinsing procedure. Then quarter fill the tank and add a liquid alkali detergent (e.g. SURF, OMO, DRIVE) at 0.5L/100L of water and circulate throughout the system for at least fifteen minutes. Drain the whole system. Remove filters and nozzles and clean them separately. Finally flush the system with clean water and allow to drain. Dispose of all water used for cleaning in a disposal pit specifically marked and set up for this purpose clear of waterways, vegetation and roots.

APPLICATION

Ground Application: Boom spray with flat fan nozzles. Ensure good spray coverage is obtained. Apply using 50 to 110L water per hectare. The ideal droplet size is 200 to 300 microns VMD.

Aircraft Application: For best results use 20 to 30L water per hectare and spray at 2m to 3m above the crop. Ideal droplet size is 250 to 350 microns VMD. For rotary atomizers (micronairs) this can be achieved using blade angles of 55° to 65°. Where booms and nozzles are attached, flat fan nozzles with a spray angle of 65° to 90° should be used. Avoid applying TITAN Clodinafop 240 EC Herbicide if wind speeds are greater than 5m/sec. If spraying in calm conditions use larger droplets and reduce flying height.

COMPATIBILITY

When TITAN Clodinafop 240 EC Herbicide is applied with compatible herbicides always use a recommended oil. Only use a 100% non-ionic surfactant when mixing with diflufenican based products.

Grass Herbicides: TITAN Clodinafop 240 EC Herbicide is compatible with diclofop methyl.

Broadleaf Herbicides: Some broadleaf weed herbicides are incompatible with TITAN Clodinafop 240 EC Herbicide because they reduce the effectiveness of TITAN Clodinafop 240 EC Herbicide or because in mixture they may cause crop yellowing.

For the latest information on compatibility of TITAN Clodinafop 240 EC Herbicide with broadleaf herbicides refer to your reseller or TITAN AG Pty Ltd.

Incompatible:

The following herbicides are known to be incompatible with TITAN Clodinafop 240 EC Herbicide: Diuron, Triasulfuron, bromoxynil + dicamba + MCPA and all 2,4-D formulations. Herbicides, which are incompatible with TITAN Clodinafop 240 EC Herbicide, must be applied separately. In this situation, apply TITAN Clodinafop 240 EC Herbicide first and then allow at least 10 days between its application and application of the broadleaf weed herbicide.

Insecticides: TITAN Clodinafop 240 EC Herbicide is compatible with methidathion.

PRECAUTIONS

Re-entry Period: DO NOT enter treated areas without protective clothing until the spray has dried.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

DO NOT apply on or near shrubs, trees, lawns or crops other than wheat. DO NOT drain or flush equipment on or near desirable trees or other plants, where their roots may extend, or in situations where by movement of soil or by seepage absorption of the herbicide may occur. DO NOT apply under meteorological conditions or from spraying equipment, which could be expected to cause spray to drift onto nearby susceptible plants, adjacent crops, crop lands or pastures. DO NOT allow spray to drift onto adjacent fallow land.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

DO NOT apply to irrigation drains or channels. DO NOT contaminate dams, streams, creeks and rivers with the chemical, spray mixture, used containers or equipment washings.

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 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

Harmful if swallowed. Will irritate the eyes and skin. Repeated exposure may cause allergic disorders. Avoid inhaling spray mist. Avoid contact with eyes and skin. When opening the container, preparing spray and using the product wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), a washable hat, elbow-length butyl rubber gloves; and face shield or goggles. If product gets on skin, immediately wash area with soap and water. If product gets in eyes, wash it out immediately with water. 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, 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 Clodinafop 240 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.

* Other trademarks

Additional statements required by Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia: Combustible liquid. May cause an allergic skin reaction. May cause damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways. Very toxic to aquatic life with long lasting effects. **Precautionary:** Keep away from flames and hot surfaces. No smoking. Do not breathe dust/fume/gas/mist/vapours/spray. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. IF SWALLOWED: Immediately call a POISON CENTER/doctor. IF ON SKIN: Wash with plenty of water. Get medical advice/attention if you feel unwell. Specific treatment (see on this label). Do NOT induce vomiting. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. In case of fire: Use to extinguish: CO₂, powder or water spray. Collect spillage. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container in accordance with local/regional/national regulations.

