

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



CLODINAFOP 240 EC

SELECTIVE HERBICIDE

ACTIVE CONSTITUENT: 240 g/L CLODINAFOP-PROPARGYL

60g/L CLOQUINTOCET-MEXYL

SOLVENTS: 507g/L LIQUID HYDROCARBONS

100 g/L N-METHYL-2-PYRROLIDONE

GROUP A 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.

4FARMERS PTY. LTD.

A.C.N. 067 443 485

1/70 McDOWELL STREET WELSHPOOL

WESTERN AUSTRALIA 6106

PH (08) 9356 3445 FAX: (08) 9356 3447

IMPORTANT: READ THIS LEAFLET BEFORE USE

APVMA Approval No.: 60849/0107

GENERAL INSTRUCTIONS:

4Farmers Clodinafop 240 EC Selective Herbicide should be applied only when weeds are actively growing.

RESISTANT WEEDS WARNING

4Farmers Clodinafop 240 EC Selective Herbicide is a member of the aryloxyphenoxypropionate ("fop") group of herbicides. This product has the inhibition of fat (lipid) synthesis (or inhibitors or acetyl CoA carboxylase) mode of action. For weed resistance management this product is a Group A herbicide. Some naturally occurring weed biotypes resistant to this product and other Group A 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 this product or other Group A herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, 4Farmers Pty Ltd accepts no liability for any losses that may result from the failure of this product to control resistant weeds.

Weed biotypes resistant to diclofop-methyl and other "grass specific" herbicides can also often be resistant to 4Farmers Clodinafop 240 EC Selective Herbicide. Before using 4Farmers Clodinafop 240 EC Selective 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 4Farmers Clodinafop 240 EC Selective 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 or 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, 4Farmers Clodinafop 240 EC Selective Herbicide or other Group A herbicides should not be used.

Strategies to minimise the risk of herbicide resistance are available. The above recommendations should be incorporated into an Integrated Weed Management (IWM) Programme. Consult your farm chemical supplier, consultant, local Department of Agriculture or Primary Industries, or a 4Farmers representative for details.

MIXING

Fill the spray tank to one quarter full. Then add 4Farmers Clodinafop 240 EC Selective Herbicide while adding water to make up the final spray volume. Pour 4Farmers Clodinafop 240 EC Selective Herbicide into the stream of incoming water. Good agitation at the time 4Farmers Clodinafop 240 EC Selective Herbicide is added to the tank will ensure good mixing. Add the required amount of D-C-Trate[®], Hasten[®] or Uptake[®] 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:

1. water conditioners or buffers
2. water dispersible granules (WDG)
3. wettable powders (WP)
4. flowable or suspension concentrates (SC)
5. emulsifiable concentrates (EC) (4Farmers Clodinafop 240 EC Selective Herbicide)
6. water based or soluble concentrates
7. oils and wetters – e.g. Hasten, BS 1000

MINIMUM OIL VOLUMES

The minimum amount of oil to be applied with 4Farmers Clodinafop 240 EC Selective Herbicide will depend on the type of oil used. When applying 4Farmers Clodinafop 240 EC Selective Herbicide using low water volumes, DO NOT use less than the minimum oil volumes specified below:

- For oils normally applied at 1% v/v (E.g. D-C-Trate), DO NOT apply less than 500ml oil/ha.
- For oils normally applied at 0.5% v/v (E.g. Uptake, Hasten), DO NOT apply less than 250ml oil/ha.

DIRECTIONS FOR USE:

RESTRAINT:

DO NOT apply if rainfall is expected within 2 hours.

DO NOT apply to weeds or crops, which 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 long period of frosts.

DO NOT apply under poor growing conditions.

Crop	Weeds Controlled	State	Rate/ha	Weed Growth Stage	Critical Comments
Wheat 2 leaf to late jointing (Zadocks 12-37)	Wild Oats	Nthn NSW, Qld only	65mL + 1L D-C-Trate Oil or 500mL Hasten or Uptake oil/ 100L of water	2-5 leaf	NOT TO BE MIXED WITH BROADLEAF HERBICIDES AT THESE RATES. Apply at 85mL/ha when weeds are not actively growing. When 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 Hasten instead of D-C-Trate or Uptake.
			85mL + 1L D-C-Trate Oil or 500mL Hasten or Uptake oil/ 100L of water	2 leaf to mid tillering	
		Sthn NSW, Vic, SA, WA only	85mL + 1L D-C-Trate Oil or 500mL Hasten or Uptake oil/ 100L of water	2-5 leaf	MAY BE TANK MIXED WITH COMPATIBLE HERBICIDES. Apply in mixtures for broadleaf weed control only when weeds are actively growing. When mixing 4Farmers Clodinafop 240 EC Selective Herbicide with certain broadleaf weed herbicides some reduction in grass weed control may occur. Unless otherwise specified always use D-C-Trate, Uptake or Hasten when tank mixing broadleaf herbicides. Apply at 125mL/ha when weeds are not actively growing. When 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 Hasten instead of D-C-Trate or Uptake.
			125mL + 1L D-C-Trate Oil or 500mL Hasten or Uptake oil/ 100L of water	2 leaf to mid tillering	
			65mL + 1L D-C-Trate Oil or 500mL Hasten or Uptake oil/ 100L of water. Or 100mL of a 100% non-ionic surfactant / 100L of water.	2-5 leaf	MAY BE TANK MIXED WITH COMPATIBLE HERBICIDES. Apply in mixtures for broadleaf weed control only when weeds are actively growing. When mixing 4Farmers Clodinafop 240 EC Selective 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, Uptake or Hasten when tank mixing broadleaf herbicides. Apply at 85mL/ha when weeds are not actively growing. When 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 Hasten instead of D-C-Trate or Uptake.
			85mL + 1L D-C-Trate Oil or 500mL Hasten or Uptake oil/ 100L of water. Or 100mL of a 100% non-ionic surfactant / 100L of water.	2 leaf to mid tillering	

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

WITHHOLDING PERIOD:

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

CLEANING SPRAY EQUIPMENT

After using 4Farmers Clodinafop 240 EC Selective 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 through out the system for at least 15 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 tree roots.

APPLICATION

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

Aircraft Application: For best results use 20 to 30L of water/ha and spray at 2m to 3m above the crop. The ideal droplet size is 250 to 350 microns VMD. For rotary atomiser (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. Allow using 4Farmers Clodinafop 240 EC Selective Herbicide if wind speeds are greater than 5 m/s. If spraying in calm conditions use larger droplets and reduce flying height.

COMPATIBILITY

When 4Farmers Clodinafop 240 EC Selective Herbicide is applied with compatible herbicides always use a recommended oil. Use only a 100% non-ionic surfactant when mixing with diflufenican based products.

Grass Herbicides: 4Farmers Clodinafop 240 EC Selective Herbicide is compatible with diclofop-methyl.

Broadleaf Herbicides: Some broadleaf herbicides are incompatible with 4Farmers Clodinafop 240 EC Selective Herbicide because they reduce the effectiveness of 4Farmers Clodinafop 240 EC Selective Herbicide or because in mixture they may cause crop yellowing.

INCOMPATIBLE

The following herbicides are known to be incompatible with 4Farmers Clodinafop 240 EC Selective Herbicide: Diuron, Logran, Barrel* (bromoxynil + dicamba + MCPA) and all 2,4-D formulations.

Herbicides, which are known to be incompatible with 4Farmers Clodinafop 240 EC Selective Herbicide, must be applied separately. In this situation, apply 4Farmers Clodinafop 240 EC Selective Herbicide first and then allow at least 10 day between its application and application of the broadleaf weed herbicide.

Insecticides: 4Farmers Clodinafop 240 EC Selective Herbicide is compatible with Supracide*.

PRECAUTIONS

Re-entry period

DO NOT enter treated areas without protective clothing until 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 whereby movement of soil or by seepage absorption of the herbicide may occur.

DRIFT WARNING

DO NOT apply under weather conditions, or from spraying equipment, that may cause spray to drift onto nearby susceptible plants/crops, cropping 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 streams, rivers or waterways 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 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 500 mm 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 PVC gloves and face shield or goggles.

If product on skin, immediately wash area with soap and water. If product gets in eyes, immediately wash area 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: 13 11 26).

MATERIAL SAFETY DATA SHEET

Additional information is listed in the Material Safety Data Sheet, which can be obtained from the supplier.

CONDITIONS OF SALE

The use of 4Farmers Clodinafop 240 EC Selective Herbicide being beyond the control of the manufacturer, no warranty expressed or implied is given by 4Farmers Pty Ltd regarding its suitability, fitness or efficacy for any purpose for which it is used by the buyer, whether in accordance with the directions or not and 4Farmers Pty Ltd accepts no responsibility for any consequences whatsoever resulting from the use of this product.

Crop	Weeds Controlled	State	Rate/ha	Weed Growth Stage	Critical Comments
Wheat 2 leaf to late jointing (Zadocks 12-37)	Paradoxa Grass (<i>Phalaris paradoxa</i>) Canary Grass (<i>Phalaris minor</i>)	Qld, NSW, Vic, SA only	85mL + 1L D-C-Trate Oil or 500mL Hasten or Uptake oil/ 100L of water	2-3 leaf	NOT TO BE MIXED WITH BROADLEAF HERBICIDES AT BELOW 160mL/ha. Apply in mixtures for broadleaf weed control only when weeds are actively growing. When mixing 4Farmers Clodinafop 240 EC Selective Herbicide with certain broadleaf weed herbicides some reduction in grass weed control may occur. Apply at 160mL/ha when weeds are not actively growing. When 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 Hasten instead of D-C-Trate or Uptake.
			125mL + 1L D-C-Trate Oil or 500mL Hasten or Uptake oil/ 100L of water	2-5 leaf	
			160mL + 1L D-C-Trate Oil or 500mL Hasten or Uptake oil/ 100L of water	2 leaf to early tillering	
Annual Ryegrass	NSW, Vic, SA, WA only		160mL + 1L D-C-Trate Oil or 500mL Hasten or Uptake oil/ 100L of water	2-4 leaf	MAY BE TANK MIXED WITH COMPATIBLE HERBICIDES. Apply in mixtures for broadleaf weed control only when weeds are actively growing. When mixing 4Farmers Clodinafop 240 EC Selective Herbicide with certain broadleaf weed herbicides some reduction in grass weed control may occur. Apply at 210mL/ha when weeds are not actively growing. When 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 Hasten instead of D-C-Trate or Uptake.
			210mL + 1L D-C-Trate Oil or 500mL Hasten or Uptake oil/ 100L water	2 leaf to early tillering	

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WITHHOLDING PERIOD:

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**

For specialist advice in an emergency dial

1800 638 556

24 hours