

POISON

KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTIONS BEFORE OPENING OR USING



F.S.A.

CLODINAPOP 240 EC HERBICIDE

ACTIVE CONSTITUENTS: 240 g/L CLODINAPOP
60 g/L CLOQUINTOCET-MEXYL

SOLVENTS: 575 g/L LIQUID HYDROCARBONS
100 g/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 as per the Directions for Use.

IMPORTANT: READ THIS BOOKLET BEFORE USING THIS PRODUCT



FOUR SEASONS
AGRIBUSINESS



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 STAGE GROWTH	CRITICAL COMMENTS
Wheat 2 leaf to late jointing (Zadoks 12-37)	Wild Oats	Nth NSW, Qld only	65 mL + 1 L of DC-Trate oil or 500mL Hasten or Infuse oil per 100L of water	2 to 5 leaf	NOT TO BE MIXED WITH BROADLEAF HERBICIDES AT THESE RATES. Apply at 85 mL/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 Hasten instead of DC-Trate or Infuse.
			85mL + 1L of DC-Trate oil or 500mL Hasten or Infuse oil per 100L of water.	2 leaf to mid tillering	
			85mL + 1L of DC-Trate oil or 500mL Hasten 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 F.S.A Clodinafop 240 EC Herbicide with certain broadleaf weed herbicides some reduction in grass weed control may occur. Unless otherwise specified always use DCTrate, Infuse or Hasten 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 Hasten instead of DC-Trate or Infuse.
			125mL + 1L of DC-Trate oil or 500mL Hasten or Infuse oil per 100L of water	2 leaf to mid tillering	

CROP	WEEDS CONTROLLED	STATE	RATE PER ha	WEED STAGE GROWTH	CRITICAL COMMENTS
Wheat 2 leaf to late jointing (Zadoks 12-37)	Wild Oats	Sthn NSW, VIC, SA, WA only	65 mL + 1L of DC-Trate oil or 500mL Hasten 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 F.S.A. 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 DC-Trate, Infuse or Hasten when tank mixing broadleaf herbicides. Apply at 85 mL/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 Hasten instead of DC-Trate or Infuse.
			85mL + 1L of DC-Trate oil or 500mL Hasten or Infuse oil per 100 L 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 + 1 L of DC-Trate oil or 500mL Hasten or Infuse oil per 100 L of water	2 to 3 leaf	NOT TO BE MIXED WITH BROADLEAF HERBICIDES AT BELOW 160 mL/ha. Apply in mixtures for broadleaf weed control only when weeds are actively growing. When mixing F.S.A. Clodinafop 240 EC Herbicide with certain broadleaf weed herbicides some reduction in grass weed control may occur. Apply at 160 mL/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 Hasten instead of DC-Trate or Infuse.
			125 mL + 1L of DC-Trate oil or 500mL Hasten or Infuse oil per 100 L of water	2 to 5 leaf	
			160 mL + 1L of DC-Trate oil or 500mL Hasten or Infuse per 100 L of water	2 leaf to early tillering	

CROP	WEEDS CONTROLLED	STATE	RATE PER ha	WEED STAGE GROWTH	CRITICAL COMMENTS
Wheat 2 leaf to late jointing (Zadoks 12-37)	Annual Ryegrass	NSW, VIC, SA, WA only	160 mL + 1L of DC-Trate oil or 500mL Hasten or Infuse 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 F.S.A. Clodinafop 240 EC Herbicide with certain broadleaf weed herbicides some reduction in grass weed control may occur. Apply at 210 mL/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 Hasten instead of DC-Trate or Infuse.
			210 mL + 1L of DC-Trate oil or 500mL Hasten or Infuse per 100 L 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

F.S.A. Clodinafop 240 EC Herbicide should be applied only when weeds are actively growing.

MIXING

Fill the spray tank to one quarter full. Then add F.S.A. Clodinafop 240 EC Herbicide while adding water to make up the final spray volume. Pour F.S.A. Clodinafop 240 EC Herbicide into the stream of incoming water. Good agitation at the time F.S.A. Clodinafop 240 EC Herbicide is added to the tank will ensure good mixing. Add the required amount of DC-Trate*, Hasten, 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 -

1. Water conditioners or buffers
2. Water dispersible granules (WG)
3. Wettable powders (WP)
4. Flowable or suspension concentrates (SC)
5. Emulsifiable concentrates (EC) (F.S.A. Clodinafop 240 EC Herbicide)
6. Water based or soluble concentrates
7. Oils and wetters - e.g. Hasten, 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 F.S.A. Clodinafop 240 EC Herbicide will depend on the type of oil used. When applying F.S.A. 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 DC-Trate), DO NOT apply less than 500mL oil/ha.
- For oils normally applied at 0.5% v/v (eg Hasten), DO NOT apply less than 250 mL oil/ha.

CLEANING SPRAY EQUIPMENT

After using F.S.A. 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. SURE, OMO, DRIVE) at 0.5 L/100 L 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 110 L water per hectare. The ideal droplet size is 200 to 300 microns VMD.

Aircraft Application: For best results use 20 to 30 L water per hectare and spray at 2 m to 3 m 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 degrees to 65 degrees. Where booms and nozzles are attached, flat fan nozzles with a spray angle of 65 degrees to 90 degrees should be used. Avoid applying F.S.A. Clodinafop 240 EC Herbicide if wind speeds are greater than 5 m/sec. If spraying in calm conditions use larger droplets and reduce flying height.

COMPATIBILITY

When F.S.A. 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: F.S.A. Clodinafop 240 EC Herbicide is compatible with diclofop methyl.

Broadleaf Herbicides: Some broadleaf weed herbicides are incompatible with F.S.A Clodinafop 240 EC Herbicide because they reduce the effectiveness of F.S.A. Clodinafop 240 EC Herbicide or because in mixture they may cause crop yellowing. For the latest information on compatibility of F.S.A. Clodinafop 240 EC Herbicide with broadleaf herbicides refer to your reseller or Four Seasons Agribusiness Pty Ltd.

Incompatible:

The following herbicides are known to be incompatible with F.S.A. Clodinafop 240 EC Herbicide:

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

Insecticides: F.S.A. Clodinafop 240 EC Herbicide is compatible with methidathion.

RESISTANT WEEDS WARNING

GROUP	1	HERBICIDE
-------	---	-----------

F.S.A. Clodinafop 240 EC Herbicide is a member of the aryloxyphenoxypropionate ('fop') group of herbicides. F.S.A. Clodinafop 240 EC Herbicide has the inhibition of fat (lipid) synthesis, (or inhibitors of acetyl CoA carboxylase) mode of action. For weed resistance management F.S.A. Clodinafop 240 EC Herbicide is a Group 1 herbicide.

Some naturally-occurring weed biotypes resistant to F.S.A. 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 F.S.A. Clodinafop 240 EC Herbicide or other Group 1 herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, Four Seasons Agribusiness Pty Ltd accepts no liability for any losses that may result from the failure of F.S.A. 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 F.S.A. Clodinafop 240 EC Herbicide. Before using F.S.A. 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 F.S.A. 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 1 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, F.S.A. Clodinafop 240 EC Herbicide or other Group 1 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) Program. Consult your farm chemical supplier, consultant, local Department of Agriculture or Primary Industries, or local F.S.A. representative for details.

PRECAUTION

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 drift onto nearby susceptible plants, adjacent crops, crop lands or pastures. DO NOT allow spray to drift onto adjacent fallow lands.

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

Keep out of reach of children.

Store in the closed, original container in a dry, cool, well-ventilated area out of direct sunlight.

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 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.

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 and preparing spray wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and 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 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 days use, wash gloves, face shield or goggles and contaminated clothing.

FIRST AID INSTRUCTIONS

If swallowed, DO NOT induce vomiting. If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26, New Zealand 0800 764 766.

SAFETY DATA SHEET

Additional information is listed on the Safety Data Sheet that is available from the supplier.

CONDITIONS OF SALE

The sale, supply, storage, use and application of this product is beyond the control of the manufacturer, and, subject to this provision, all warranties, conditions, rights and remedies express or implied under common law, statute or otherwise, in relation to the sale, supply, storage, use or application are excluded. Four Seasons Agribusiness Pty Limited and its associated entities shall not accept any liability whatsoever (including consequential loss) or however arising (including negligence) for any damage, injury or death connected with the sale, supply, storage, use or application of this product except for liability which cannot be excluded by statute.

Combustible liquid. Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation. May damage fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.

Do not handle until all safety precautions have been read and understood. Keep away from heat, sparks, open flames and hot surfaces. - No smoking. Do not breathe fumes, mists, vapours or spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Use only outdoors or in a well ventilated area. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves, protective clothing and eye or face protection.

**IN A TRANSPORT EMERGENCY
DIAL 000
POLICE OR FIRE BRIGADE**



**FOUR SEASONS
AGRIBUSINESS**

Four Seasons Agribusiness Pty Ltd
287 Boorowa Street, Young, New South Wales, Australia, 2594
ABN 98 115 133 189 ACN 115 133 189 Phone 1300 449 255
www.fourseasonsag.com