

POISON

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

 OzCrop

Clodinafop

HERBICIDE

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

GROUP A HERBICIDE

For 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 specified in the Directions for Use table.

CONTENTS:

5L, 10L, 20L

**NOT A DANGEROUS GOOD
ACCORDING TO THE AUSTRALIAN
DANGEROUS GOODS (ADG) CODE.**

BATCH NO.

DATE OF MANUFACTURE:

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DIRECTIONS FOR USE

Restraints: 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 prolonged period of frosts.
 DO NOT apply under poor growing conditions.

CROP	WEEDS CONTROLLED	STATE	RATE PER HECTARE	WEED GROWTH STAGE	CRITICAL COMMENTS	
Wheat 2 leaf to late jointing (Zadocks 12 – 37)	Wild Oats	Qld, Nthn NSW only	65 mL + 1 L of D-C-Trate oil or 500 mL Hasten or Uptake oil per 100 L of water.	2 to 5 leaf	NOT TO BE TANK 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 D-C-Trate or Uptake.	
			85 mL + 1 L of D-C-Trate oil or 500 mL Hasten or Uptake oil per 100 L of water.	2 leaf to mid tillering		
			85 mL + 1 L of D-C-Trate oil or 500 mL Hasten or Uptake oil per 100 L of water.	2 to 5 leaf		
			125 mL + 1 L of D-C-Trate oil or 500 mL Hasten or Uptake oil per 100 L of water.	2 leaf to mid tillering		
		Sthn NSW, Vic, SA, WA only	65 mL + 1 L of D-C-Trate oil or 500 mL Hasten or Uptake oil per 100 L 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 Ozcrop Clodinafop 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 125 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 D-C-Trate or Uptake.
			85 mL + 1 L of D-C-Trate oil or 500 mL Hasten or Uptake oil per 100 L of water.	2 leaf to mid tillering		

CROP	WEEDS CONTROLLED	STATE	RATE PER HECTARE	WEED GROWTH STAGE	CRITICAL COMMENTS	
Wheat 2 leaf to late jointing (Zadocks 12 – 37) – continued	Paradoxa Grass <i>(Phalaris paradoxa)</i> , Canary Grass <i>(Phalaris minor)</i>	Qld, NSW, Vic, SA only	85 mL + 1 L of D-C-Trate oil or 500 mL Hasten or Uptake per 100 L of water.	2 to 3 leaf	NOT TO BE TANK MIXED WITH BROADLEAF HERBICIDES AT RATES BELOW 160 mL/ha. Apply in mixtures for broadleaf weed control only when weeds are actively growing. When mixing Ozcrop Clodinafop 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 D-C-Trate or Uptake.	
			125 mL + 1 L of D-C-Trate oil or 500 mL Hasten or Uptake per 100 L of water.	2 to 5 leaf		
			160 mL + 1 L of D-C-Trate oil or 500 mL Hasten or Uptake per 100 L of water.	2 leaf to early tillering		
	Annual Ryegrass	NSW, Vic, SA, WA only	160 mL + 1 L of D-C-Trate oil or 500 mL Hasten or Uptake per 100 L 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 Ozcrop Clodinafop 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 D-C-Trate or Uptake.
			210 mL + 1 L of D-C-Trate oil or 500 mL Hasten or Uptake 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

Ozcrop Clodinafop Herbicide should be applied only when weeds are actively growing.

RESISTANT WEEDS WARNING

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

Weed biotypes resistant to diclofop-methyl and other “grass specific” herbicides can also often be resistant to Ozcrop Clodinafop Herbicide. Before using Ozcrop Clodinafop 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 Ozcrop Clodinafop 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, Ozcrop Clodinafop 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) Program. Consult your farm chemical supplier, consultant, local Department of Agriculture or Primary Industries, or local OzCrop representative for details.

MIXING

Fill the spray tank to one quarter full. Then add Ozcrop Clodinafop Herbicide while adding water to make up the final spray volume. Pour Ozcrop Clodinafop Herbicide into the stream of incoming water. Good agitation at the time Ozcrop Clodinafop Herbicide is added to the tank will ensure good mixing. Add the required amount of Amplify*, D-C-Trate*, Hasten*, Hotwire* 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 dispersable granules (WG)
3. Wettable powders (WP)
4. Flowable or suspension concentrates (SC)
5. Emulsifiable concentrates (EC) (Ozcrop Clodinafop Herbicide)
6. Water based or soluble concentrates
7. Oils and wetters – eg Hasten, BS 1000

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 Ozcrop Clodinafop Herbicide will depend on the type of oil used. When applying Ozcrop Clodinafop 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 500 mL oil/ha.
- For oils normally applied at 0.5% v/v (eg Uptake, Hasten, Amplify, Hotwire), DO NOT apply less than 250 mL oil/ha.

CLEANING SPRAY EQUIPMENT

After using Ozcrop Clodinafop 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 (eg SURF*, 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° to 65°. Where booms and nozzles are attached, flat fan nozzles with a spray angle of 65° to 90° should be used. Avoid applying Ozcrop Clodinafop Herbicide if wind speeds are greater than 5 m/s. If spraying in calm conditions use larger droplets and reduce flying height.

COMPATIBILITY

When Ozcrop Clodinafop 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: Ozcrop Clodinafop Herbicide is compatible with diclofop methyl, eg OzCrop Diclofop-Methyl 375EC.

Broadleaf Herbicides: Some broadleaf weed herbicides are incompatible with Ozcrop Clodinafop Herbicide because they reduce the effectiveness of Ozcrop Clodinafop Herbicide or because in mixture they may cause crop yellowing. For the latest information on compatibility of Ozcrop Clodinafop Herbicide with broadleaf herbicides refer to your local reseller or OzCrop Territory Manager.

Incompatible: The following herbicides are known to be incompatible with Ozcrop Clodinafop Herbicide: Diuron, LOGRAN*, Barrel* (bromoxynil + dicamba + MCPA) and all 2,4-D formulations.

Herbicides which are incompatible with Ozcrop Clodinafop Herbicide must be applied separately. In this situation, apply Ozcrop Clodinafop Herbicide first and then allow at least 10 days between its application and application of the broadleaf weed herbicide.

Insecticides: Ozcrop Clodinafop Herbicide is compatible with methidathion 400 g/L.

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 as cool as possible, out of 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 of designed 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, 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.

Safe Work Australia:

Combustible liquid.

May be fatal if swallowed and enters airways.

May cause respiratory irritation.

May damage fertility or the unborn child.

May cause damage to organs through prolonged or repeated exposure.

Use only outdoors or in a well ventilated area.

Contaminated work clothing should not be allowed out of the workplace.

IF SWALLOWED: Immediately call a POISON CENTRE or doctor.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Eliminate all ignition sources if safe to do so.

In case of fire, use carbon dioxide, dry chemical, foam. Alcohol resistant foam is the preferred firefighting medium but, if it is not available, normal foam can be used.

FIRST AID

If poisoning occurs contact a doctor or Poisons Information Centre. Phone Australia 131126. If in eyes, wash out immediately with water.

SDS

Additional information is listed in the safety data sheet (SDS). A safety data sheet for Ozcrop Clodinafop Herbicide is available from OzCrop on request. Call Customer Service on (02) 8199 3610.

CONDITIONS OF SALE: The use of Ozcrop Clodinafop Herbicide being beyond the control of the manufacturer, no warranty expressed or implied is given by OzCrop Pty Ltd, regarding its suitability, fitness or efficiency for any purpose for which it is used by the buyer, whether in accordance with the directions or not and OzCrop Pty Ltd accepts no responsibility for any consequence whatsoever from the use of this product.

* Other trademarks



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