

POISON

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

Mandate[®]

Herbicide

ACTIVE CONSTITUENTS:

240 g/L CLODINAFOP-PROPARGYL

60 g/L CLOQUINTOCET-MEXYL

SOLVENT: 570 g/L HYDROCARBON LIQUID

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

Formulation type

Emulsifiable
Concentrate

EC



ADAMA

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CONTENTS: 1 L, 5 L, 10 L, 20 L

DIRECTIONS FOR USE

Restrains: 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 - 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	
			125 mL + 1 L of D-C-Trate* oil or 500 mL Hasten* or Uptake* oil per 100 L 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 MANDATE [®] 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*.

CROP	WEEDS CONTROLLED	STATE	RATE PER HECTARE	WEED GROWTH STAGE	CRITICAL COMMENTS	
Wheat 2 leaf to late jointing (Zadocks 12 – 37) – continued	Wild Oats	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. Or 100 mL of a 100% non-ionic surfactant per 100 L 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 MANDATE® 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 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. Or 100 mL of a 100% non-ionic surfactant 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	85 mL + 1 L of D-C-Trate* oil or 500 mL Hasten* or Uptake* per 100 L of water.	2 - 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 MANDATE® 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 - 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		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 MANDATE® 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

MANDATE® Herbicide should be applied only when weeds are actively growing.

MIXING

Fill the spray tank to one quarter full. Then add MANDATE® while adding water to make up the final spray volume. Pour MANDATE® into the stream of incoming water. Good agitation at the time MANDATE® 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 dispersible granules (WG)
3. Wettable powders (WP)
4. Flowable or suspension concentrates (SC)
5. Emulsifiable concentrates (EC) (MANDATE®)
6. Water based or soluble concentrates
7. Oils and wetters – e.g. 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 MANDATE® will depend on the type of oil used. When applying MANDATE® 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 500 mL oil/ha.
- For oils normally applied at 0.5% v/v (e.g. Uptake*, Hasten*, Amplify®, Hotwire®), DO NOT apply less than 250 mL oil/ha.

CLEANING SPRAY EQUIPMENT

After using MANDATE®, 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 0.5 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 roads.

APPLICATION

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

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

COMPATIBILITY

When MANDATE® 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: MANDATE® is compatible with diclofop methyl, e.g. Rhino®.

Broadleaf Herbicides: Some broadleaf weed herbicides are incompatible with MANDATE® because they reduce the effectiveness of MANDATE® or because in mixture they may cause crop yellowing. For the latest information on compatibility of MANDATE® with broadleaf herbicides refer to your local reseller, Adama Territory Manager or the Adama web site, adama.com

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

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

Insecticides: MANDATE® is compatible with Suprathion® 400 EC.

RESISTANT WEEDS WARNING

MANDATE® Herbicide is a member of the aryloxyphenoxypropionate ("fop") group of herbicides. MANDATE® has the inhibition of fat (lipid) synthesis, (or inhibitors of acetyl CoA carboxylase) mode of action. For weed resistance management MANDATE® is a Group A herbicide. Some naturally-occurring weed biotypes resistant to MANDATE® 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 MANDATE® or other Group A herbicides.

Since the occurrence of resistant weeds is difficult to detect prior to use, Adama Australia accepts no liability for any losses that may result from the failure of MANDATE® to control resistant weeds.

Weed biotypes resistant to diclofop-methyl and other "grass specific" herbicides can also often be resistant to MANDATE®. Before using MANDATE® 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 MANDATE®.

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, MANDATE® 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 Adama representative for details.

RE-ENTRY

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 (1 L)

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 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 the relevant State, Local or Territorial government regulation. DO NOT burn empty containers or product.

STORAGE AND DISPOSAL (5 L, 10 L, 20 L)

Store in the closed, original container in a cool, well-ventilated area as cool as possible, out of direct sunlight. This container can be recycled if it is clean, dry, free of visible residues and has the *drumMUSTER* logo visible. Triple or pressure rinse container for disposal. Add rinsing to spray tank. DO NOT dispose of undiluted chemicals on-site. Wash outside of the container and the cap. Store cleaned container in a sheltered place with cap removed. It will then be acceptable for recycling at any *drumMUSTER* collection or similar container management program site. The cap should not be replaced but may be taken separately. If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the container 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 the relevant State, Local or Territorial government regulation. 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.

FIRST AID

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

SDS

Additional information is listed in the safety data sheet (SDS). A safety data sheet for MANDATE® is available from adama.com or call Customer Service on 1800 423 262.

CONDITIONS OF SALE: The use of MANDATE® Herbicide being beyond the control of the manufacturer, no warranty expressed or implied is given by Adama Australia 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 Adama Australia accepts no responsibility for any consequence whatsoever resulting from the use of this product.

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

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