

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

# ARVESTA MOTSA™ HERBICIDE

ACTIVE CONSTITUENTS: 200g/L CLETHODIM  
48 g/L HALOXYFOP present as the haloxyfop-R methyl ester  
SOLVENT: 652 g/L LIQUID HYDROCARBON


GROUP A HERBICIDE

For the control of certain grass weeds in canola, chickpeas, faba beans, field peas, lentils and lupins

CONTENTS: 1 Litre, 5 Litre, 10 Litre, 20 Litre and 200 Litre

**TOMEN AUSTRALIA LIMITED**  
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**Sydney NSW 2000**  
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<b>N.R.A.</b>	
<b>APPROVED LABEL (TEXT)</b>	
Label No:	55382/0203
Date:	11.12.03
Signature:	

**DIRECTIONS FOR USE**

**RESTRAINTS:** DO NOT apply to weeds that are stressed by moisture or temperature extremes  
 DO NOT apply if rain is expected within one hour of application  
 DO NOT apply Arvesta Motsa Herbicide more than once to any one crop  
 DO NOT apply in combination with other clethodim or haloxyfop based herbicides

Crop	Weeds	Stage of weed growth	Rate/ha	Critical comments
Canola, lupins, faba beans, field peas, chick peas, lentils	Wild oats Barley grass Volunteer wheat Volunteer barley Volunteer oats Paradoxa grass Lesser Canary grass ( <i>Phalaris minor</i> ) Brome grass	2 leaf to early tillering	150-200ml	The lower doses will provide effective control if applied under ideal conditions to weeds that are smaller, actively growing and free from stress. Always apply with Hasten, Kwickin or Uptake at 1L/100L of spray volume. <b>Lentils</b> -application up to 7-node/early branching crop growth stage only. <b>Canola</b> -application prior to bud formation and stem elongation only. <b>Lupins, Faba beans, Field peas, Chick peas</b> -Do not apply beyond full flowering.
Canola, lupins, faba beans, field peas, chick peas, lentils	Annual ryegrass	2 leaf to early tillering	200-300ml	The lower doses will provide effective control if applied under ideal conditions to weeds that are smaller, actively growing and free from stress. Always apply with Hasten, Kwickin or Uptake at 1L/100L of spray volume <b>Lentils</b> -application up to 7-node/early branching crop growth stage only. <b>Canola</b> -application prior to bud formation and stem elongation only. <b>Lupins, Faba beans, Field peas, Chick peas</b> -Do not apply beyond full flowering.

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

**HARVEST WITHHOLDING PERIODS:**

**Chickpeas, faba beans, field peas, lentils and lupins: Not required when used as directed.**

**Canola: DO NOT apply later than 8 weeks before harvest**

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**GRAZING WITHHOLDING PERIODS:**

**All crops: DO NOT graze or cut for stock food for 8 weeks after application**

**GENERAL INSTRUCTIONS**

**MIXING**

Add water to the spray tank to 10 cm above the level of agitation and ensure the agitation device is working vigorously. (There must be a minimum of 100 L of water in the tank before any pesticide is added.)

If tank mixing, firstly, add any soluble liquid formulations and allow agitation for approximately one minute.

Then add Arvesta Motsa Herbicide at the point where agitation is strongest. (**Do not add Arvesta Motsa Herbicide through a strainer or sieve**). Allow further agitation for one minute.

Half fill the spray tank.

If using wettable powder or water dispersible granules, or other emulsifiable concentration formulations, these should be **added after the Arvesta Motsa Herbicide** to the half full spray tank ensuring vigorous agitation.

Finally add the spraying oil/wetter and continue filling the tank to the required volume maintaining agitation at all times.

Only mix sufficient solution for immediate use. Arvesta Motsa Herbicide and any other tank mixes should be applied immediately for best results.

**COMPATIBILITY**

Arvesta Motsa Herbicide is compatible with the following grass herbicides: Targa\*, Fusilade\*, Sertin\* and Correct\*. (Refer to the Bayer Correct label for detail on adjuvant recommendations for that product).

NOTE: In all situations where Arvesta Motsa Herbicide is mixed with another grass herbicide, Arvesta Motsa Herbicide should be used at the full label rate specified for the target weed species.

Arvesta Motsa Herbicide may also be applied in tank mixtures with one of the following products: Sumi-Alpha<sup>1</sup> 50 EC, Sumi-Alpha<sup>1</sup> Dual, Fastac\* 100 and Le-Mat\*.

Arvesta Motsa Herbicide should not be applied in a tank mix with Brodal\*. Apply as separate applications.

For information on compatibility of products not listed, please refer to Tomen Australia Limited.

**APPLICATION:**

**Ground Application:**

Arvesta Motsa Herbicide should be applied with calibrated spray equipment producing a median droplet range of 200 to 300 microns VMD. Apply in a minimum of 50 litres of water per hectare. Use 150 L/ha when spraying dense populations.

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**Aerial Application:**

Arvesta Motsa Herbicide can be applied through aircraft fitted with boom or Micronair equipment. A spray volume of 20 to 30 L/ha is recommended and equipment should be adjusted to deliver droplets in the range of 200 to 250 microns VMD.

Best results will be obtained when aerial applications are made in a light crosswind. Applications should not be made during temperature inversions or in conditions of very low relative humidity. Care should be taken to avoid drift damage to adjoining grass crops.

## CLEANING SPRAY EQUIPMENT

If broadleaf herbicides, particularly sulfonylureas, have been used in the spray equipment at any time prior to Arvesta Motsa Herbicide, particular care should be taken to follow the directions on the relevant broadleaf herbicide label for equipment cleaning, or damage to susceptible crops may occur.

After using Arvesta Motsa 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, maize, sorghum or other sensitive crops, wash the tank and rinse the system as above. Then quarter fill the tank and add an alkali detergent (e.g. SURF<sup>®</sup>, Cold Water SURF Concentrate<sup>®</sup>, DynamoMatic Concentrate<sup>®</sup>, OMO<sup>®</sup> or DRIVE<sup>®</sup>) at 500 mL/100 L of water or the powder equivalent at 500 g/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. Chlorine based cleaners are not recommended.

**Rinse water should be discharged onto a designated disposal area, or if this is unavailable, onto unused land away from desirable plants and water sources.**

## RESISTANT WEEDS WARNING

GROUP	A	HERBICIDE
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Clethodim is a member of the cyclohexanedione group of herbicides. Haloxyfop is a member of the aryloxyphenoxy propionate group of herbicides. Clethodim and haloxyfop have the acetyl CoA carboxylase inhibitor mode of action. For weed resistance management, Arvesta Motsa Herbicide is a Group A Herbicide. Some naturally-occurring weed biotypes resistant to Arvesta Motsa 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 Arvesta Motsa Herbicide or other Group A Herbicides.

Since the occurrence of resistant weeds is difficult to detect prior to use, Tomen Australia Limited accepts no liability for any losses that may result from the failure of Arvesta Motsa Herbicide to control resistant weeds.

Strategies to minimize the risk of herbicide resistance are available. Contact your farm chemical supplier, consultant or local Department of Agriculture.

## PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

This product damages cereals and grasses.

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.

Cereal crops or grasses planted 12 weeks of application may be damaged by the residual effects of Arvesta Motsa Herbicide, particularly on light red soils.

Care should be taken to avoid damage to adjoining native grasses or grass crops.

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## PROTECTION OF LIVESTOCK

DO NOT graze or cut treated stock food except as specified under withholding periods.

## PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Arvesta Motsa Herbicide is toxic to fish. DO NOT contaminate streams, rivers or waterways with the chemical or used container.

## STORAGE AND DISPOSAL

Store in the closed original container in a cool, well-ventilated area. Do not store for prolonged periods in direct sunlight. DO NOT store near feedstuffs, fertilizers or seeds.

Triple rinse 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.

## SMALL SPILL MANAGEMENT

Wear protective equipment (see SAFETY DIRECTIONS). Apply absorbent material such as earth, sand, cat litter or clay granules to the spill. When absorption is complete, sweep up material and contain in a refuse vessel for disposal (see STORAGE AND DISPOSAL). If necessary, wash the spill area with an alkali detergent and water and absorb this wash liquid for disposal as described above.

## SAFETY DIRECTIONS

Harmful if swallowed. Will irritate the eyes and skin. Avoid contact with the eyes and skin. When preparing spray and using the prepared spray, wear cotton overalls buttoned to the neck and wrist, washable hat, elbow-length PVC gloves and face shield or goggles. If product is 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 (Tel. 131126).

If in eyes, hold eyes open and flood with water for at least 15 minutes and see a doctor.

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## MATERIAL SAFETY DATA SHEET

Additional information is listed in the Material Safety Data Sheet (MSDS).

Main panel

NOTICE TO BUYER

Tomen Australia Limited will not accept any responsibility whatsoever and howsoever arising and whether for consequential loss or otherwise in connection with the supply or use of these goods other than responsibility for the merchantable quality of the goods and such responsibilities mandatory imposed by Statutes applicable to the sale or supply of these goods. To the extent allowed by such statutes the liability of Tomen Australia Limited is limited to the replacement of the goods or (at the option of Tomen Australia Limited) the refund of the price paid and is conditional upon a claim being made in writing and where possible sufficient part of the goods to enable proper examination being returned to Tomen Australia Limited.

NRA Approval No: 55382/0203

Batch No:

Date of Manufacture:

THIS PRODUCT IS NOT CONSIDERED TO BE A DANGEROUS GOOD UNDER THE AUSTRALIAN CODE FOR THE TRANSPORT OF DANGEROUS GOODS BY ROAD AND RAIL

IN A TRANSPORT EMERGENCY

FOR SPECIALIST ADVICE IN AN EMERGENCY ONLY

DIAL: 000

PHONE: 1800 024 973

POLICE OR FIRE BRIGADE

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