Dow AgroSciences

Maestro™

Herbicide

Controls broadleaf weeds in pastures and cereals

READ THE LABEL COMPLETELY BEFORE MIXING OR APPLYING

ACTIVE INGREDIENT:
Contains 750 g/litre MCPA as the dimethylamine salt in the form of a soluble concentrate.

GROUP 01 HERBICIDE

WARNING:
HARMFUL and CORROSIVE- keep out of reach of children

ECOTOXIC

CONTENTS: 1-200L

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**HAZARD CLASSIFICATION:**
6.1D, 6.9A, 8.3A, 9.1A, 9.2A, 9.3B

**APPROVED HANDLER**
This product must be under the personal control of an approved handler when:
- a) applied in a wide dispersive manner; or
- b) used by a commercial contractor.

**RECORD KEEPING**
Records of use, as described in the relevant HSNO regulations and the New Zealand Standard for the Management of Agrichemicals (NZS8409), must be kept if more than 3L of Maestro™ Herbicide is applied, or discharged within 24 hours in a place where members of the public may be present or where the substance may enter air or water and leave the place.

**TOXICITY**
**WARNING**
THIS SUBSTANCE MAY BE HARMFUL IF SWALLOWED, OR INHALED. MAY CAUSE ORGAN DAMAGE FROM REPEATED ORAL EXPOSURE AT HIGH DOSES. Do not eat, drink or smoke while using. Remove protective clothing immediately after handling this product and wash hands and face before meals and after work.
MAY CAUSE SKIN IRRITATION. Avoid contact with the skin.

**CORROSIVITY**
This product is corrosive to the eye. Avoid contact with eyes.

**ECOTOXICITY**
VERY TOXIC TO AQUATIC ORGANISMS. Do not contaminate an aquatic environment with chemical or empty container. Do not spray over, or allow to drift over, an aquatic environment.

SELECTIVE HERBICIDE - VERY TOXIC TO SOME PLANT SPECIES. Some plants may be damaged or killed from contact with this product. Do not allow drift outside the target area to occur.
Decontaminate equipment before use on sensitive plants (see Application Methods section).
TOXIC TO TERRESTRIAL VERTEBRATES. Do not allow animals or birds access to the undiluted material or unused spray mix.
HANDLING PRECAUTIONS

EQUIPMENT
Apply using accurately calibrated and maintained equipment in accordance with the New Zealand Standard for the Management of Agrichemicals (NZS8409).
Flush equipment thoroughly with clean water after use according to Cleaning Spray Equipment instructions below. Dispose of cleaning water according to the disposal instructions below.

STORAGE
Store in original container tightly closed and in a locked, dry, cool, well ventilated area, away from foodstuffs. Storage must be generally in accordance with the New Zealand Standard for the Management of Agrichemicals (NZS8409).
Stores containing more than 100L of Maestro Herbicide (or substances of the same hazard class) require bunding and are subject to signage. See the Hazardous Substances Emergency Management and Identification Regulations and The New Zealand Standard for the Management of Agrichemicals (NZS8409) for further information.

PERSONAL PROTECTION
When mixing or applying wear safety goggles, cotton overalls buttoned to the neck and wrist, chemical resistant gloves made of a material such as neoprene or polyvinyl chloride, and chemical resistant boots.
Do not eat, drink or smoke while using. Remove protective clothing immediately after handling this product and wash hands and face before meals and after work.

SPILLS
Do not touch or walk through spilled material. Wear a face shield or goggles, overalls buttoned to neck and wrist, chemical resistant gloves and footwear. Stop leak when safe to do so. Dam area and prevent entry into waterways, and drains. Small spills/leaks: Absorb with proprietary absorbent suitable for chemical spills or inert material such as sand, soil or sawdust. Collect spilled product and place in sealable container for disposal. Spill residues may be cleaned using water and detergent. Contain and absorb wash water for disposal. Absorb and collect washings and place in the same sealable container for disposal. Large spills/leaks: Dam the area of and report them to Dow AgroSciences Emergency Services at 0800 CHEMCALL (0800 243 622).

DISPOSAL
Triple rinse empty container and add rinsate to spray tank. Triple rinsed containers containing the Agrecovery logo on the label and that are free of all residues (liquid and dry) and have an intact legible label should be taken to an Agrecovery collection site. Otherwise crush and bury in a suitably approved landfill. Do not burn empty containers.
Dispose of the product only by using according to the label, via Agrecovery (visit www.agrecovery.co.nz or call 0800 AGRECOVERY (247 326) for information about the type and quantity of chemical acceptable for disposal), or at an approved landfill. Do not burn.
Dispose of equipment cleaning water onto ground away from susceptible crops and plants.
DO NOT dispose of this product, spray mix or equipment cleaning water down drains or sewers.

FIRST AID
If swallowed do not induce vomiting. For advice contact the National Poisons Centre 0800
POISON (0800 764 766) or a doctor immediately. If splashed in eyes, wash out immediately with running water for several minutes. Protect the unharmed eye. Take care not to wash the chemical from one eye into the other. If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.

TRANSPORT
Do not carry this product on a passenger service vehicle.

SAFETY DATA SHEET
A Safety Data Sheet is available from Dow AgroSciences on request. Call Customer Service Toll Free on 0800 803 939 or visit www.dowagrosciences.co.nz.

NOTICE

Important: You must read the warning and conditions given on this label. If they are not acceptable, or if you are in doubt as to the proper handling of this product (including its transport, storage, use, disposal, and requirements for approved handlers [if applicable]) then return the unopened product to the supplier at once.

Warning: This product is subject to controls and could be hazardous if handled incorrectly. The user is responsible for ensuring that the handling of this product is in accordance with the law (including the Hazardous Substances and New Organisms Act 1996 and the Agricultural Compounds and Veterinary Medicines Act 1997) and with the directions provided. The Registrant declines all liability (whether in contract, tort (including but not limited to negligence), or otherwise) to the maximum extent permitted by law in relation to the handling of this product in a manner which is contrary to the directions given or to any applicable Acts, Regulations or Guidelines.

Further information regarding the applicable Acts, Regulations and Guidelines for the proper handling of this product may be obtained by contacting EPA New Zealand (www.epa.govt.nz) or the Ministry for Primary Industries (MPI) (www.foodsafety.govt.nz).

This product is warranted to contain the specified active ingredients within accepted analytical tolerance when packed.

Registered pursuant to the ACVM Act 1997, No P7316
See www.foodsafety.govt.nz for registration conditions.

Approved pursuant to HSNO Act 1996, EPA Approval Code HSR000381
See www.epa.govt.nz for approval controls.

Registered to:
Dow AgroSciences (NZ) Ltd
89 Paritutu Road
Private Bag 2017
New Plymouth 4342
Telephone 0800 803 939

EMERGENCY RESPONSE
(All hours)
Ring from anywhere in New Zealand
0800 CHEMCALL, or
0800 243 622
Or Globally
+64-3-353-0199

IN A TRANSPORT EMERGENCY
DIAL 111
FOR POLICE OR FIRE
DIRECTIONS FOR USE

APPLICATION METHODS

Maestro Herbicide can be applied using conventional ground or aircraft spraying equipment. Flush equipment thoroughly with clean water after use. Decontaminate before using on plants that are sensitive to MCPA. Crops susceptible to Maestro Herbicide include, but are not limited to: peas, lucerne, beans, and other legumes; flowers, fruit trees, grapes, kiwifruit, ornamentals, shade trees, potatoes, tomatoes, and vegetables.

Cleaning the spray equipment:

Rinsing

After using Maestro Herbicide:

- Empty the spray unit completely and drain the whole system. Thoroughly wash inside the unit using a pressure hose. Drain the spray unit, and clean any filters in the tank, pump, lines, hoses and nozzles.
- After cleaning the spray unit as above, quarter fill with clean water and circulate through the pump, lines, hoses and nozzles. Drain and repeat the rinsing procedure twice.

Decontamination

Before applying to sensitive crops with equipment that has been used to apply Maestro Herbicide:

- Quarter fill the tank and add a standard alkali based laundry detergent at 500g (or mL)/100L water and circulate throughout the system for at least 15 minutes. If using a concentrated laundry detergent use 250g (or mL)/100L water. Do not use chlorine based cleaners.
- Drain the whole system. Remove filters and nozzles and clean them separately. Finally flush the system with clean water and allow to drain.

Cleaning water should be discharged onto a designated disposal area, or onto unused land away from desirable plants and water sources.
Using the spray equipment:

IMPORTANT: In order to select the appropriate nozzles for the required spray quality and to operate the equipment to minimize spray drift, this product must be applied in accordance with the New Zealand Standard for the Management of Agrichemicals (NZS8409).

**Boom Spraying:** Use 100-200 litres water per hectare as a medium quality spray as defined by the British Crop Protection Council (BCPC) system or the American Society of Agricultural and Biological Engineers (ASABE S572). For difficult-to-control perennial weeds use 300 litres water per hectare as a medium quality spray to obtain more complete coverage.

**CDA Spraying:** For pasture weeds use 15-50 litres water per hectare using spray equipment which will produce a droplet size not less than 150 microns.

**Aerial Spraying:** For pasture weeds use 30-100 litres water per hectare as a coarse quality spray as defined by the British Crop Protection Council (BCPC) system or the American Society of Agricultural and Biological Engineers (ASABE S572). Use the higher water volumes where maximum penetration into the crop canopy is required.

**Spot Spraying:** For pasture weeds use a pressure of 600-800 kPa through a No. 4 tip and apply as a wetting spray.

**MIXING:**

Pour the measured quantity of Maestro Herbicide into the partly filled spray tank and add the remainder of the water, agitating thoroughly during filling.

**ANIMAL SAFETY**

Poisonous plants (e.g. ragwort) may become more palatable after spraying. If concerned that stock health may be affected, stock should be kept away from the treated area until plants have died down.

**WITHHOLDING PERIODS**

It is an offence for users of this product to cause residues exceeding the relevant MRL in the New Zealand (Maximum Residues Limits of Agricultural Compounds) Food Standards.

Not required when used as directed other than for animal safety purposes.

**DIRECTIONS FOR USE:**

Maestro Herbicide is a selective herbicide for the control of many broadleaf weeds in pastures and cereals.

**TIME OF APPLICATION:**

Autumn, early winter or early spring treatment is recommended for best control. During mid winter when weeds are growing less actively, variable control can occur. Do not apply to weeds under growth stress (frost, drought). Avoid application prior to expected heavy rain.
RESISTANCE MANAGEMENT

Maestro Herbicide is a phenoxy-carboxylic-acid herbicide (Group 01). Some naturally occurring individual weeds may become resistant when excessive use of the same herbicide occurs. To maximize the effectiveness of herbicides, products containing alternate modes of action should be used in the spray program. Consult http://www.resistance.nzpps.org/ for alternate modes of action and the details of resistance management strategies (if any) for the crops listed on the label.

PASTURE:

PRE TREATMENT MANAGEMENT:
Graze the area before spraying to reduce clover leaf and to expose the weeds to the spray. Leave for one week to allow weeds to freshen prior to spraying. Delay grazing the sprayed paddock for two weeks as premature grazing of the treated weeds may reduce the level of control.

High rates of Maestro Herbicide may cause temporary suppression of clovers particularly red, subterranean and suckling clovers. On newly sown or young pastures use MCPB Herbicide or Select™ Herbicide for maximum clover selectivity.
<table>
<thead>
<tr>
<th>WEEDS</th>
<th>RATE litre/ha</th>
<th>COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Buttercups (annual), hedge mustard</td>
<td>1.5-2</td>
<td>Apply the low rate on seedling and young plants.</td>
</tr>
<tr>
<td>Scotch thistle</td>
<td>1.5-2</td>
<td>Apply the low rate on seedling and young plants.</td>
</tr>
<tr>
<td>Nodding thistle</td>
<td>1.5</td>
<td>Apply to small rosettes only whose root crown (determined by cutting plant off at ground level) is less than 2 cm in diameter.</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>Apply to rosettes whose root crown is 2-4 cm in diameter and before flower stalk development. For thistles with root crowns greater than 4 cm diameter and multicrown plants add 100 ml/ha of Versatill™ Herbicide.</td>
</tr>
<tr>
<td>Variegated thistle</td>
<td>1.5</td>
<td>Apply to seedlings only.</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>Apply to small rosettes less than 15 cm in diameter.</td>
</tr>
<tr>
<td>Winged thistle</td>
<td>1.5</td>
<td>Apply to seedlings only.</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>Apply to rosettes prior to flower stalk emergence.</td>
</tr>
<tr>
<td>Californian thistle, buttercups (perennial)</td>
<td>2-3</td>
<td>Ap[ply at the early flower bud stage when plants are about 30-40 cm high. These weeds normally require repeat treatments for long term control. Apply the first treatment in early summer followed with a second treatment in autumn. A third application the following summer is usually necessary. In areas where thistles have been found to be hard to control add Versatill™ Herbicide at 100 ml/ha. NOTE: If Versatill Herbicide is added, perennial clover will be severely suppressed and annual clovers may be removed from the sward.</td>
</tr>
</tbody>
</table>
Pasture continued

<table>
<thead>
<tr>
<th>WEEDS</th>
<th>RATE (litre/ha)</th>
<th>COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Catsear, plantains, nettle, dandelion, wild turnip, willow weed, twin cress</td>
<td>2-3</td>
<td>Treat young plants only when under active growth.</td>
</tr>
<tr>
<td>Hoary cress, creeping mallow</td>
<td>3</td>
<td>Treat in the early spring during active growth (if clover is of importance, use Maestro Herbicide 1.5 litres/ha plus MCPB Herbicide at 3 litres/ha). Some regrowth can be expected and follow-up treatments may be necessary.</td>
</tr>
</tbody>
</table>

Spot Spraying:
For gun application use 500ml Maestro Herbicide per 100 litres of water. For knapsack application use 5 ml per litre of water.

CEREALS:
Weeds should be treated as actively growing seedlings. Use up to 1.5 litres Maestro Herbicide per hectare on wheat, barley and oats. Spray from the five leaf stage to jointing (the appearance of nodes or joints at the base of the plant). DO NOT USE ON CEREAL CROPS UNDERSOWN WITH CLOVERS.

<table>
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<tr>
<td>Redroot, black nightshade, docks (seedling), fathen, hedge mustard, nettle, shepherds purse, wild turnip</td>
<td>1.5</td>
<td>Weeds should be at the 2-6 leaf stage and actively growing.</td>
</tr>
<tr>
<td>Chickweeds, cleavers, fumitory, spurrey, speedwells, willow weed, wireweed</td>
<td></td>
<td>These weeds are best controlled with an alternative cereal herbicide.</td>
</tr>
<tr>
<td>Californian thistle, stinking mayweed, chamomiles, vetches, yarrow</td>
<td></td>
<td>These weeds are controlled by Versatill™ Herbicide.</td>
</tr>
</tbody>
</table>

LINSEED:
For the control of the weeds listed for cereals use 0.75-1.0 litres Maestro Herbicide per hectare ensuring the crop is between 8 cm in height and early bud formation. Weeds should be young and actively growing.

GRASS SEED CROPS
For the control of the weeds listed for cereals use 0.7 - 1.7 litres Maestro Herbicide per hectare soon after shutting up. Weeds should be young and actively growing.

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