

POISON

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

Magister[®] G Herbicide



ACTIVE CONSTITUENT: 30 g/kg CLOMAZONE

GROUP	F	HERBICIDE
-------	----------	-----------

For the control of certain annual grasses in rice
as per the Directions for Use Table

NET CONTENTS: 25, 40 & 50 kg



FMC International A.G.

Suite 3, 3 Belbora Road
Shailer Park Qld 4128

Contact number – (07) 3801 4799

Directions for use**RESTRAINTS:**

DO NOT apply to highly stressed crops at time of application eg. slime, salty soils or cold deep water.

CROP	WEEDS CONTROLLED	RATE	CRITICAL COMMENTS
<p>Rice, Application to PERMANENT WATER to crops established by sod or combine sowing, aerial sowing or broadcasted onto soil surface prior to permanent flood.</p>	<p>Barnyard grass (<i>Echinochloa</i> spp.)</p> <p>(Suppression only) Silver top grass (<i>Leptochloa fusca</i>) (syn: <i>Diplachne fusca</i>)</p>	<p>6.5 kg/ha</p> <p>8 kg/ha</p> <p>10 kg/ha</p> <p>8 to 10 kg/ha</p>	<p>Application to Permanent Water: To achieve optimum control ensure seedbed is free of germinated grasses prior to flooding. Aerially apply direct to the flood water of permanently flooded bays. Apply to flood water from pre sowing up to the 4 leaf rice stage. Lock up bays prior to application to cease water movement. Refer to general instruction for application and water management details.</p> <p>Apply to weeds up to 4 leaf in size.</p> <p>Apply to small weeds up to 2 leaf in size.</p> <p>Apply when high barnyard grass populations are expected or weeds up to 3 leaf in size.</p> <p>Use the highest rate when a range of weed sizes occur up to 4 leaf in size.</p> <p>Apply to weeds up to 2 leaf in size which have germinated since flooding. Use the higher rate when high silver top populations are expected or weeds are at the 2 leaf stage.</p>

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

WITHHOLDING PERIOD:

HARVEST: Not required when used as directed.

GRAZING: Do not graze or cut for stock food for 3 months after application.

GENERAL INSTRUCTIONS

Magister[®] G Herbicide is a short residual, water applied herbicide, in a granule formulation for the control of certain grass weeds in direct seeded rice crops. Plant uptake of Magister G occurs through both the roots and the foliage. The movement of the active constituent clomazone within the plant occurs upward and outwards to the leaf. Clomazone is not downward systemic, nor translocated from leaf to leaf.

SYMPTOMS

Clomazone, the active constituent in Magister, inhibits the biosynthesis of photosynthetic pigments of both chlorophyll and carotenoids. Accordingly the foliage of susceptible plants show signs of chlorosis (whitening or bleaching), followed by necrosis (browning).

RICE SAFETY

Transient bleaching of rice seedlings can occur in some circumstances particularly at the higher rates, or if application is delayed post seedling, or if the rice plant is under stress at time of application eg slime, salty soils or cold, deep water. Sod or combine sown rice is especially susceptible to cold, deep water which can exacerbate the effect of clomazone. In most cases seedlings usually recover rapidly. The variety Illabong is especially susceptible to bleaching.

COMPATIBILITY

Magister G may be applied in sequence with other rice herbicides and insecticides.

RESISTANT WEEDS WARNING

GROUP	F	HERBICIDE
-------	----------	-----------

Magister G is a member of the Isoxazolidinone group of herbicides. Magister G has the inhibitors of carotenoid biosynthesis mode of action. For weed resistance management Magister G is a Group F Herbicide.

Some naturally occurring weed biotypes resistant to Magister G and other Group F Herbicides may exist through normal genetic variability in any weed population if these herbicides are used repeatedly. These resistant weeds will not be controlled by Magister G or other Group F Herbicides.

Since the occurrence of resistant weeds is difficult to detect prior to use, FMC International A.G. accepts no liability for any losses that may result from the failure of Magister G or other Group F Herbicides.

APPLICATION

Granules may be applied as a full blanket treatment (100% cover) to the permanent water surface of the bay, down to a minimum fifty percent cover treatment (50% cover) when applied as a double rate on alternative swaths.

Only use the double swath method when applying pre-sowing or soon after sowing but before rice plants are visible above the water surface. Inappropriate application techniques can result in highly visible off target symptoms. Apply Magister G granules by aircraft fitted with a spreader calibrated to give the correct rate per hectare. Apply direct to the water surface of permanently flooded bays. Because of the solubility of clomazone and redistribution in water, granules do not need to be applied right to the edges of the bay. Ensure the spreader applicator is completely shut off at all other times. Avoid application of Magister G onto bare soil surfaces to avoid incidence of off target whitening (for further detail refer to section Protection of Crops, Native and Other Non Target Plants).

WATER MANAGEMENT

Application to permanent water: For best results lock up bays prior to application to cease water movement. It is essential to prevent water movement for at least 3 days after treatment of Magister G. Floodwater must cover all ground to a sufficient depth at application to maintain water cover until water can be added after the 3 day period. Normal water levels should then be maintained. Care should be taken when applying Magister G under cold conditions to not stress rice seedlings with deep water. Sod sown crops may be more susceptible.

Do not drain rice water into regional drains within the withholding period, after Magister G application, as defined by the Local Irrigation Authority and/or the NSW Environment Protection Authority or for 10 days, whichever is the greater.

CROP ROTATION RECOMMENDATIONS

Magister G treated areas may be replanted to any of the specified crops after the interval indicated in the following table.

**Minimum Recropping Intervals
For Magister G**

Minimum Recropping INTERVAL (months after application)			
Rate	0	6	9
10 kg/ha or less	Poppies, Potatoes, Cucurbits, Beans, Tobacco, Rice	Barley, Oats, Wheat, Lucerne, Rye grass, Onions, Canola, Sub-clover	All other crops

Tolerance of other crops (grown through to maturity) should be determined on a small scale before sowing into larger areas.

Cover crops however may be planted anytime but stand reductions may occur in some areas. Do not graze, or harvest for food or feed, cover crops.

Re-planting: If initial seedlings fail to produce a stand, the crop may be replanted in fields treated with Magister G alone. Do not retreat field with a second application of Magister G. Do not replant treated fields with any crop at intervals, which are inconsistent with the rotational crop guidelines on this label.

RE-ENTRY

Do not allow entry into treated areas for 12 hours. When prior entry is necessary, wear impervious footwear and chemical resistant gloves. Clothing must be laundered after each day's use.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

OFF TARGET WHITENING

If incorrectly applied Magister G could cause whitening of species of trees, shrubs, ornamentals, agronomic crops, vines and fruits. The effects may last a few weeks and plants usually grow out of it with no long term effect. This phenomenon is unlikely to occur when the granule formulation is applied to water in rice. However all steps should be taken to minimise the likelihood of this whitening occurring:-

1. Apply only with calibrated equipment
2. Apply direct to the water surface of permanently flooded bays.
3. Ensure the spreader applicator is completely shut off at all other times.
4. Avoid application to soil surfaces.
5. DO NOT empty or clean application equipment near homes or sensitive plants.
6. Remove contaminated clothing before entering areas where sensitive plants exist e.g. homes, nurseries or green houses.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS, AND ENVIRONMENT

DO NOT contaminate streams, rivers or waterways with Magister G or used container.

Do not drain rice water into regional drains within the withholding period, after Magister G application, as defined by the local irrigation authority and/or the NSW Environment Protection authority or for 10 days, whichever is the greater.

STORAGE AND DISPOSAL

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

Spillage - In case of spillage, confine and sweep up granules. Do not dispose of unused granules on-site. Dispose of waste as indicated below or according to the Australian Standard 2507 - Storage and Handling of Pesticides. Do NOT allow spilled product to enter sewers, drains, creeks or any other waterways.

Shake empty bag into hopper. Puncture, shred or bury empty containers in a local authority landfill. If not 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.

SAFETY DIRECTIONS

Harmful if swallowed. May irritate the eyes, skin, nose and throat. Avoid contact with eyes and skin. Do not inhale dust. When opening and preparing the product for use, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), elbow length PVC gloves and disposable dust mask. Wash hands after use. After each day's use, wash gloves and contaminated clothing.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia (13 11 26).

MATERIAL SAFETY DATA SHEET

Additional information is listed in the MSDS **FMC/MAG G/1**, which is available from the supplier.

WARRANTY

FMC makes no warranty expressed or implied, concerning the use of this product other than that indicated on the label. Except as so warranted the product is sold as is. Buyer and user assume all risk of use and/or handling and/or storage of this material when such use and/or handling and/or storage is contrary to label instructions.

BATCH NO:

DATE OF MANUFACTURE:

NRA APPROVAL No: 52541/0900