

**ECOTOXIC, HARMFUL
KEEP OUT OF THE REACH OF CHILDREN
NOT TO BE USED ON TURF**



Monarch™

**A selective herbicide for the control of fathen and black nightshade
in fodder brassica and oilseed rape (Biofuel) crops**

Read the Label Carefully before use

Contains:

267g/l clopyralid and 67g/l picloram, both as the monoethanolamine salt, in the form of a soluble concentrate

Registered to
Agricultural Imports Direct NZ Ltd
Level 1, 101 Station Rd, Penrose, Auckland
Distributed by
Etec Crop Solutions Limited
PO Box 51 584, Pakuranga, Auckland.
Phone: 0800 100 325
www.etec.co.nz

**NET CONTENTS:
5 Litres**



HSNO Classifications: 6.4A, 9.1C, 9.2A, 9.3C

ECOTOXIC: Very toxic to aquatic organisms. Avoid contamination of any water supply with product or empty container. Very toxic to the soil environment. Selective herbicide – very toxic to some plant species (certain plants may be killed or damaged from root uptake of this product). Do not allow spray drift outside the target area.

Harmful to Terrestrial Vertebrates. Do not allow animals or birds access to the undiluted material or unused spray mix.

HARMFUL: May cause mild skin irritation and sensitisation from prolonged skin contact. May cause eye irritation. Avoid skin and eye contact. Avoid spray mist.

RECORD KEEPING: Records of use as described in the current version of NZS 8409 Management of Agrichemicals must be kept if 3L or more of the substance is applied in a place where it is likely to enter air or water and leave the place.

APPROVED HANDLER: This product must be under the control of an approved handler during use.

HANDLING PRECAUTIONS:

PERSONAL PROTECTION: When mixing or applying, avoid contact with skin and eyes. Wear full protective clothing, gloves and goggles. Do not eat or drink while using. Wash hands and face before meals and after work. Wash protective clothing after work.

EQUIPMENT: Apply using accurately calibrated and maintained equipment in accordance with the New Zealand Standard for the Management of Agrichemicals (NZS8409). Flush spray equipment thoroughly with water after use.

STORAGE: Store in original container tightly closed and in a locked, dry, cool, well ventilated area away from fertilisers, feed, seeds and foodstuffs. Keep out of reach of children. Store in accordance with NZ 8409 Management of Agrichemicals. Stores containing 100L of Monarch® are subject to signage & secondary containment. More than 1000L requires an emergency response plan. When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture. Contact your supplier for further information about the use of any product that is older than this. See the PRODUCT SAFETY CARD for further information.

SPILLAGE: Move non-essential people from the area. Wear appropriate protective clothing and prevent material from entering waterways. Absorb spills with inert material and place in waste containers. Sweep up solids without creating dust. Wash area with water and absorb with further inert material. Dispose of waste safely (such as to a suitable landfill).

PRODUCT DISPOSAL: Ensure unwanted product is used by another operator strictly in accordance with label directions.

CONTAINER DISPOSAL: Triple rinse container and add rinsate to spray tank. Dispose of cleaned container at your local AGRECOVERY collection site.

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

DIRECTIONS FOR USE

Fodder Brassicas (Kale, Swede, Spring & summer sown Turnip, Pasja, Rape) and Oil Seed Rape (BioFuel)
Pre-emergence: Apply at 350-500 ml plus 250-400 ml Magister®2CS (refer Magister CS label for specific use rate required). Adequate moisture is required. Treatment may be applied at any time before rainfall or irrigation or during light rainfall.

POST-EMERGENCE: Apply at 350-500 ml/ha to small actively growing 2-8 leaf seedling weeds in 100-300L of water per hectare using the higher rate on vigorous/dense crops. Application can be made up until the crop begins to form a canopy.

Always apply Monarch in combination with Peptol®¹ Crop Oil. Aerial and ground spray use 500ml per 100L spray mix.

Weeds Controlled: Fathen, Black nightshade.

RE-CROPPING AND SOIL RESIDUES: Beans, cucurbits, Lucerne, potatoes, peas, tomatoes and other crops that are highly susceptible to picloram.

Do not sow for at least 1 year and not until it has been demonstrated that it is safe to do so.

Do Not use Monarch® if it will be necessary to sow susceptible crops within the above-suggested periods. Avoid repeat treatments of Monarch® to successive brassica crops as this can increase the potential for soil residues.

Clovers: Establishment and growth are possible in pastures sown after brassicas treated with recommended rates of Monarch®.

To minimise potential damage to clovers from picloram soil residues, allow a minimum of 6 months after treatment, deep plough and surface cultivate before sowing pasture. The rate of decline of soil residues is dependent on several factors including soil type, rainfall and will vary from district to district. Under low rainfall conditions (less than 800 mm per year) or in heavy, poor draining soil, delay planting of susceptible crops for at least 2 years.

CAUTION:

Do not use any plant material treated with Monarch® for mulching or composting as residues in plant tissues which have not completely decayed may damage succeeding susceptible crops. Incorporate all remaining plant material as soon as possible after harvest to release any residues into the soil where they will break down at a faster rate. Ensure the stubble or any plant remains are completely decayed before planting susceptible crops.

SPRAY EQUIPMENT DECONTAMINATION:

To prevent injury to subsequently sprayed sensitive crops, decontaminate spraying equipment thoroughly, immediately after spraying Monarch®.

1. Drain tank and flush tank, boom and hoses with clean water for at least 10 minutes.
2. Fill tank with clean water and add 1 litre chlorine bleach (3% sodium hypochlorite) per 100 litres water, while flushing hoses and boom keep agitation system running—then drain.
3. Repeat step 2.
4. Remove and clean nozzles, filters and screens separately. Rinse thoroughly with clean water and flush through hoses and boom to remove traces of chlorine.

GENERAL DIRECTIONS:

Monarch® is a pre and post-emergence herbicide for use on Fodder Brassicas and oilseed rape for the control of certain broadleaf weeds. Monarch® is absorbed through the roots and foliage of weeds and translocated to other parts of the plant. The ideal timing for application is either pre-emergence to the crop and weeds in combination with Magister®2CS or alone post emergence when weeds are small and actively growing. Monarch® works faster under warm, moist growth conditions, and slower under cold, dry conditions following application. Adequate moisture (13mm of rain or irrigation) is essential for effective pre emergence activity.

WITHHOLDING PERIOD:

Other than for animal safety or crop rotation purposes a withholding is not required when used as directed. Poisonous plants may become more palatable to Animals after spraying. If concerned that stock health may be affected, keep stock away from the treated areas until plants have died down.

RAINFALL: Do not spray if rainfall is expected within 6 hours of spraying when applying Monarch® post emergence.

COMPATIBILITY: Monarch® is compatible with Magister®2CS and most commonly used herbicides, insecticides and fungicides.

MIXING: Half fill the spray tank with water and add the required amount of Monarch®. Fill up the spray tank, agitating continuously to ensure thorough mixing and maintain agitation until spraying is complete. When used in combination with Magister®2CS add Monarch® as above followed by Magister®2CS when the tank is ¾ full. Use only clean water.

APPLICATION: Monarch® can be applied using calibrated conventional ground or aerial spraying equipment. Equipment should be decontaminated before and after using Monarch®, particularly if herbicides such as MCPA, MCPB, 2,4-D or sulfonylurea herbicides have been used prior to Monarch® or if susceptible crops are to be sprayed after use of Monarch® (see Soil Residue and Crop Rotation section). Small amounts of the above herbicides can severely affect brassica crops.

Only mix sufficient spray solution for immediate use & avoid storing mixed solution. Do not apply through CDA applicators.

Do not spray crops that are under stress from cold, drought, disease, insect damage, nutrient deficiency etc. Crop injury may result from spray overlap. When starting, slowing or stopping, shut off the spray boom.

Thorough sprayer decontamination is necessary to prevent injury to subsequently sprayed sensitive crops.

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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 skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If concentrate is splashed in the eyes, flush with running water immediately.

BEWARE: APPLY THIS PRODUCT CAREFULLY. SPRAY DRIFT MAY CAUSE SERIOUS DAMAGE TO OTHER DESIRABLE PLANTS. MINIMISE SPRAY DRIFT WHEN APPLYING NEAR AQUATIC ENVIRONMENTS.

IMPORTANT

Do not spray, or drain or flush equipment on or near trees or other desirable plants, where their roots may extend or where the chemical may be washed or moved into contact with their roots. Do not use on areas like lawns, walks, driveways, tennis courts as injury or loss of trees or other desirable plants may result.

CONDITIONS OF SUPPLY: All goods supplied by us are produced under rigid quality control procedures which assure the purchaser that at the time of sale they are physically suitable for use in the manner stated. However, to the extent permitted by law, buyers and/or users of the goods accept that neither the manufacturer, Agricultural Imports Direct NZ Ltd as registrant, nor any other distributor have any liability or responsibility whatsoever for any loss, damage or injury whether in contract or tort, whether direct, indirect or consequential howsoever arising in connection with the supply of these goods.



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