

SELECTIVE HERBICIDE

750G/LITRE MCPA

MCPA 750

HERBICIDE

SAFETY & APPLICATION GUIDELINES

This booklet contains critical hazard, safety and application information.
Please open and read thoroughly before use.



24-HOUR EMERGENCY
0800 CHEMCALL (243 622)



HAZARD CLASSIFICATIONS: Acute oral toxicity, Category 4; Severe eye damage, Category 1; Specific target organ toxicity, repeated exposure Category 2; Hazardous to soil organisms; Hazardous to terrestrial vertebrates; Hazardous to aquatic life (acute exposure), Category 1; Hazardous to aquatic life (chronic exposure), Category 1.

TOXICITY

DANGER: May cause severe eye damage. May cause organ damage from repeated or prolonged exposure. Harmful if swallowed.

ECOTOXICITY

Very toxic to aquatic life and with long-lasting effects. Very toxic to the soil environment. Toxic to terrestrial vertebrates.

Selective Herbicide – very toxic to some plant species. **Beware: Spray drift hazard. Apply this product carefully. Spray drift may cause serious damage to other desirable plants. Do not allow drift to occur outside the target area.**

Do not apply directly into or onto water. Take all reasonable steps to ensure product does not cause any significant adverse effects to the environment beyond the application area.

Ensure compliance with relevant regional air management plans. To minimise the risk of damage from drift, especially where susceptible vegetation is within 0.5km, use low drift nozzles which minimise the production of small droplets (less than 100 microns). Maintain a water rate of at least 30 litres per ha for aerial spraying. Do not add additional wetter specified on the label. Preferred wind conditions for spraying are a light constant breeze away from any sensitive crop.

QUALIFIED HANDLER: This product must be under the control of a suitably qualified handler when mixing, loading or applying. This product must not be used for any purpose or in any manner contrary to this label unless authorized under appropriate legislation.

RECORD KEEPING: If 3 kg or more of **Rainbow & Brown MCPA 750** is applied within 24 hours, in a place where the substance is likely to enter the air or water and leave the application area, written records must be kept for 3 years.

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN. Avoid contact with skin, eyes and inhalation of spray mist. Use only outdoors or in well-ventilated area. When handling, wear eye protection, waterproof gloves, boots and overalls. Remove protective clothing and wash hands and face thoroughly before meals and after work. Wash protective clothing and equipment after use. Do not eat, drink or smoke while using.

STORAGE

Store in the original container in a locked, dry, cool area away from foodstuffs, fertilizers and seeds. Avoid storage at temperatures below 5°C and above 35°C. Storage must be in accordance with the current version of NZS 8409 Management of Agrichemicals. Stores containing 100 litres or more require signage, secondary containment and emergency response plans.

Shelf life: When stored appropriately this product should show no significant degradation for two years from the date of manufacture. Contact Rainbow & Brown for information about the use of product that is older than this.

EQUIPMENT

Apply using well maintained spray equipment that is accurately calibrated to apply 100-300 litres of water/ha for ground spraying and 30-100 litres of water/ha for aerial spraying. Use higher water rates for larger weeds.

PRODUCT DISPOSAL

Dispose of this product only by using in accordance with this label, or at an approved landfill, or other approved facility. If this is not possible then contact Rainbow & Brown for advice. Do not dispose of this product down drains or sewers.



CONTAINER DISPOSAL

Triple rinse empty containers and add rinsate to the spray tank. Do not burn containers. Crush or puncture and bury in a suitably approved landfill or through Agrecovery recycling service.

SPILLAGE

Collect spill. Wear appropriate protective clothing and prevent material from entering waterways. Contain liquid spills and absorb with inert material and place in waste container. Wash area with water and alkaline detergent then absorb any remaining liquid with further inert material. Sweep up solids without creating dust. Dispose of waste safely in a suitable landfill.

FIRST AID

Call the NATIONAL POISONS CENTRE (0800) POISON (0800 764766) or a doctor for advice. Have product label or container at hand. Get medical advice if you feel unwell.

IF SWALLOWED: Rinse mouth. Get medical advice. **DO NOT** induce vomiting unless instructed to do so following medical advice.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

IF ON SKIN: Wash with plenty of soap and water. Do not scrub skin. If skin irritation persists: Get medical attention. Wash contaminated clothing before reuse.

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Begin artificial respiration if breathing has stopped and get immediate medical assistance.

SAFETY DATA SHEET: Additional information is provided in the safety data sheet. Phone Rainbow & Brown on 0508 299 299 or visit www.rainbowbrown.co.nz. for a copy.

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

EMERGENCY RESPONSE: In a transport emergency call 111, Police or Fire Brigade and 0800-CHEMCALL (0800 243 622).



MIXING: Add two thirds of the required quantity of water to the spray tank. With the agitation system going, add the product to the spray tank. Agitate for 3-5 minutes while adding remaining water. Ensure **Rainbow & Brown MCPA 750** is completely mixed before spraying.

CLEANING: Flush equipment thoroughly with clean water after use. If the spray unit which has applied **Rainbow & Brown MCPA 750** is to be used for the application of other chemicals to sensitive crops, ensure the unit is completely decontaminated.

COMPATIBILITY: **Rainbow & Brown MCPA 750** is compatible with most other agricultural chemicals. **Rainbow & Brown MCPA 750** may be incompatible with some foliar fertilisers, especially where water rates below 50 litres/ha are used. If compatibility is unknown, make up a small test batch before mixing large quantities. **Rainbow & Brown MCPA 750** is not compatible with Reaction 9-5-6 or Reaction 14-4-4.

RESISTANCE MANAGEMENT

Rainbow & Brown MCPA 750 contains MCPA from the phenoxy carboxylic acid chemical group [GROUP 4 HERBICIDE] with the action like indole acetic acid (synthetic auxins) mode of action. Naturally occurring weed biotypes resistant to phenoxy herbicides are known to exist. These become more prevalent after many years of continuous use of the product. Species with known resistant biotypes include nodding thistle, slender winged thistle and buttercups. To prevent or delay development of resistant biotypes, use **Rainbow & Brown MCPA 750** in tank mixture or rotation with herbicides of a different mode of action. Consult www.resistance.nzpps.org/ for alternative modes of action and details of resistance management strategies (if any) for the crops listed on the label.

GENERAL INFORMATION

RAINBOW & BROWN MCPA 750 is a selective herbicide for the control of a range of annual and perennial broadleaf weeds in established pastures, cereals, seed crops such as grass and linseed, on amenity turf and in waste and non-crop areas. **RAINBOW & BROWN MCPA 750** is

absorbed through the leaves and roots, where it translocates within the weed to inhibit growth and effectively control the weed.

PASTURE MANAGEMENT: RAINBOW & BROWN MCPA 750 may be used for weed control in newly established pastures where weeds are too large for, or not well controlled by MCPB 375g/L + MCPA 25g/L SL. Do not exceed 3 litres of **RAINBOW & BROWN MCPA 750** per hectare. If red clover was sown do not exceed 1litre/ha. Clover should have at least 3 trifoliate leaves, and pastures **MUST BE GRAZED** prior to application to remove clover foliage and minimise clover damage.

Ensure any nitrogen deficiency is addressed before applying **RAINBOW & BROWN MCPA 750**. Apply **RAINBOW & BROWN MCPA 750** 3-7 days after the first full grazing. Clover growth will be suppressed for 3-4 months. Application of **RAINBOW & BROWN MCPA 750** to seedling clovers which have not been grazed may result in some plant mortality. On newly sown young pastures use MCPB Star SL (MCPB 375g/L + MCPA 25g/L) herbicide for maximum clover selectivity.

It is an offence for users of this product to cause residues exceeding the relevant MRL in the Food Notice: Maximum Residue Levels for Agricultural Compounds.

WITHHOLDING PERIOD: Except for animal safety reasons no withholding period is required when **RAINBOW & BROWN MCPA 750** is used as directed.

ANIMAL SAFETY: Poisonous plants may become more palatable after spraying with **RAINBOW & BROWN MCPA 750**. Stock should be kept away from the treated area until weed plants have died down.

RAINFALL: Do not apply **RAINBOW & BROWN MCPA 750** if rainfall is expected within 2 hours of spraying.

CONDITIONS OF SALE:

This product is warranted by Rainbow & Brown Limited to conform to the chemical description and concentration specified on the label, and to be reasonably fit for the purposes stated in the directions if used in accordance with the directions. The user bears all risks of damage or failure resulting from factors beyond the control of Rainbow & Brown. Rainbow & Brown declines all liability for any damage resulting from the improper use of this product.

Registered pursuant to the ACVM Act 1997, No. P8173.

See www.foodsafety.govt.nz for registration conditions.

Approved pursuant to the HSNO Act 1996, EPA Approval Code HSR000381.

See www.epa.govt.nz for approval controls.

Registrant:

Rainbow & Brown Ltd

68a Tallyho Street, Rotorua 3015.

PO Box 100 49, Mail Centre, Rotorua 3046.

Freecall 0508 299 299.

www.RainbowBrown.co.nz



APPLICATION GUIDELINES

RATES AND TIME OF APPLICATION: RAINBOW & BROWN MCPA 750 is most active on seedling weeds. Use the lower specified application rates on seedling and young weeds. Use the higher rates on more established and harder to kill weeds. Established perennial weeds may not be well controlled. An autumn, early winter or early spring treatment is recommended for best control at label rates. Variable control may occur during winter when weeds are growing less actively. Do not apply to weeds under stress such as frost or drought.

APPLICATION METHODS

RAINBOW & BROWN MCPA 750 can be applied using conventional ground or aerial spraying equipment.

Boom Spraying: For cereals or annual weeds in pasture, use 100 - 200 litres of water per hectare. For difficult to control perennial weeds use 300 litres of water per hectare to obtain more effective coverage.

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

Aerial Spraying: Use 30 - 100 litres of water per hectare. Use the higher rate where maximum penetration into the crop canopy is required.

Spot Spraying: Apply as a fine wetting spray to the point of run-off.

Knapsack application: Use 25 - 50 mL in 10 litres of water. Use higher rate for perennial or hard to kill weeds.

Handgun application: Use 500 mL in 100 litres of water.

Motorised Mist Blower: Use 130 mL per 10 litres of water.

DIRECTIONS FOR USE

BEWARE: APPLY THIS PRODUCT CAREFULLY AS SPRAY DRIFT MAY CAUSE SERIOUS DAMAGE TO OTHER DESIRABLE PLANTS.

CROP	WEEDS CONTROLLED	RATE/HECT ARE	CRITICAL COMMENTS
Cereal (Wheat, oats, ryecorn & barley)	Black Nightshade, Seedling Docks, Fathen, Hedge Mustard, Nettle, Shepherd's Purse, Wild Turnip, Redroot.	1.5L in 200-300L of water.	Apply when weeds are at the 2-6 leaf stage and growing actively. Spray oats from 1 leaf stage to start of jointing, and other cereals when the crop is between the 5-leaf stage and jointing. Do not use on cereals undersown with clovers.
Linseed	For weeds mentioned under Cereals	0.75-1.0L in 200-300L water and early bud formation.	Apply while the crop is up to 8cm in height. Weeds should be young and actively growing.
Grass Seed Crops	For weeds mentioned under Cereals	0.7-1.7L in 200-300L water	Apply soon after shutting up. Weeds should be young and actively growing
Pasture (grass/established clover) ^{Note 1} and Amenity turf (grasses)	Annual Buttercup, Scotch Thistle, Hedge Mustard	1.5-2.0L in 200-300L water	Apply the lower rate on seedlings and younger plants.
	Nodding Thistle		Apply the lower rate on small rosettes with a crown less than 2cm in diameter. Use the higher rate for plants with a crown 2-4cm in diameter and apply before flower stalk development. Thistles with crowns greater than 4cm in diameter and multi-crown plants are not well controlled.
	Variegated Thistle		Apply the lower rate to seedlings and the higher rate on small rosettes less than 15cm in diameter.
	Winged Thistle		Apply the lower rate to seedlings and the higher rate on small rosettes prior to flower stalk development.

CROP	WEEDS CONTROLLED	RATE/HECT ARE	CRITICAL COMMENTS
	Ragwort	1.5-3.0L in 200-300L water	Seedling and plants up to small rosette stage will be controlled. However, large rosette arid regrowth ragwort (characterised by mulitcrowns) will not be controlled.
	Catsear, Dandelion, Nettle, Plantains, Twin Cress, Wild Turnip and Willow Weed	2.0-3.0L in 200-300L water	Treat young plants while actively growing.
	Hoary Cress and Creeping Mallow	3.0L in 200-300L water	Apply in early Spring during active growth. Follow up treatments may be necessary. Do not use if clover is of importance.
	Californian Thistle and Perennial Buttercups	2.0-3.0L in 200-300L water	Apply at early flower bud stage but when plants are about 30-40cm high. Repeat treatments are likely to be required. Apply the first treatment early summer followed by a second treatment in Autumn. A third application the following summer is also usually necessary.
	Hard-to-Kill Thistles		In areas where thistles have been found hard to control use Rainbow & Brown MCPA750 at 3L/ha in combination with a Clopyralid 300 g/L herbicide at the recommended rate. Note: clopyralid herbicides are damaging to clover.
Waste and non-crop areas	Annual Buttercup, Black Nightshade, Catsear, Creeping Mallow, Hedge Mustard, Seedling Docks, Fathen, Hedge Mustard, Hoary Cress, Nettle, Perennial Buttercups, Plantains, Thistle (nodding, scotch, variegated, winged), Ragwort, Redroot, Shepherd's Purse, Twin cress, Wild Turnip.	1.5 – 3 litres in 200-300L water	Apply the lower rate on seedlings and younger plants.
Note 1: Refer to the PASTURE MANAGEMENT section for additional information.			