

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

NAADCO
MCPA
Low-Volatile Ester
Herbicide

ACTIVE CONSTITUENT: 500 g/L MCPA
present as the iso-octyl ester

GROUP I HERBICIDE

For selective control of certain weeds in agricultural crops
as listed in the Directions of Use.

**IMPORTANT: READ THE ATTACHED LEAFLET
BEFORE USING THIS PRODUCT.**

Contents:

5L - 20L
20L - 1000L

NAADCO
Level 13
99 Elizabeth St
Sydney NSW 2000
Tel: (02) 8090-8090
Fax: (02) 8090-8092



RLP
Approved



STORAGE AND DISPOSAL (5L, 20L, 200L only)

Store in the closed, original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemical 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 available, bury the containers below 500mm 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.

Refillable Containers (1000L only):

Store in the closed, original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. Empty contents fully into application equipment. Close all valves and return to point of sale for refill or storage.

Envirodrum 110L Mini Bulk Returnable Container:

Store the original sealed Envirodrum™ in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. DO NOT tamper with the Micro Matic valve or the security seal. DO NOT contaminate the Envirodrum with water or any foreign matter. After each use of the product, please ensure that the Micro Matic coupler, delivery system and hoses are disconnected, triple rinsed with clean water and drained accordingly. When the contents of the Envirodrum have been used, please return the empty Envirodrum to the point of purchase. The Envirodrum remains the property of NAADCO.

SAFETY DIRECTIONS

Harmful if swallowed. Attacks eyes. Will irritate the skin. When preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and goggles. If product 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, goggles and contaminated clothing.

FIRST AID

If poisoning occurs, contact a Doctor or Poisons Information Centre (Phone 13 1126).

MATERIAL SAFETY DATA SHEET

For further information refer to the Material Safety Data Sheet (MSDS) available from NAADCO.

CONDITIONS OF SALE

NAADCO shall not be liable for any loss, injury, damage or death whether consequential or otherwise whatsoever or howsoever arising whether through negligence or otherwise in connection with the sale, supply, use or application of this product. The supply of this product is on the express condition that the purchaser does not rely on NAADCO's skill or judgment in

purchasing or using the same and every person dealing with this product does so at his own risk absolutely. No representative of NAADCO has any authority to add or to alter these conditions.

APVMA Approval No.: 64548/55747

Batch No.

Date of Manufacture

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DIRECTIONS FOR USE:

Situation & Crop	Weeds	Rate/ha	Critical Comments
Wheat (up to early flag leaf (Z37) only)	Refer Weed Table	500 mL-2.1 L	Use the lower rate (500 mL/ha) when crop is at 3-5 leaf stage (Z13-Z15). Apply higher rates from 5 leaf stage through to flag leaf just visible (Z15-Z37). Kulin: Use only from Z15-Z37 (WA only).
Oats, Barley, Triticale and Cereal Rye (up to early flag leaf (Z37) only)		500 mL-1.6 L	Use lower rate (500 mL/ha) when crop is at 3-5 leaf stage (Z13-Z15). Apply higher rates from 5 leaf stage through to flag leaf just visible (Z15-Z37). Barley: use only from 5 leaf stage to flag leaf just visible (Z15-37).
Grass Pastures and Grass Seed Crops		500 mL-2.1 L	Apply to established grass based pastures. Damage may occur to Legumes if present. See Legume Tolerance under Protection of Crops. NOTE: Capeweed, Paterson's Curse (Salvation Jane) and Variegated Thistle may be poisonous to stock after spraying.
CEREALS Wheat, Barley, Oats, Triticale, Cereal rye	Wild Radish Stage of weed growth	NAADCO MCPA 200 mL + Nugrex 350 mL	* Reduced efficacy (suppression only) may be achieved on wild radish larger than 8 leaf or greater than 180 mm in diameter.
	Up to the 4 leaf stage and not more than 120 mm in diameter		DO NOT use this tank-mix if cereals are undersown with lucerne or annual medics.
	Up to the 6 leaf stage and not more than 150 mm in diameter		<p>Crop Stage Nugrex 350 mL + NAADCO MCPA 200 mL: Apply from 3 leaf to fully tillered (Zadok's Z13 to Z30). Nugrex 500 mL + NAADCO MCPA 200 mL: Apply from 3 leaf to fully tillered (Zadok's Z13 to Z30).</p>
Up to the 8 leaf stage and not more than 180 mm in diameter*	NAADCO MCPA 400 mL + Nugrex 500 mL	<p>Nugrex 500 mL + NAADCO MCPA 400 mL: Apply from 5 leaf stage to fully tillered (Zadok's Z16 to Z30). Optimum results are achieved when spraying at 3-5 leaf crop stage (generally 4-8 weeks post-sowing) WA only: DO NOT apply to Barley or Kulin Wheat before the 5 leaf stage (Z15) Warning: Nugrex may cause transient crop yellowing of cereals. Some varieties of oats have not been tested. (Refer to "Crop Tolerance" section of General Instructions on the Nugrex label).</p>	

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

WITHHOLDING PERIOD:

FOR HARVESTING: NOT REQUIRED WHEN USED AS DIRECTED

DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 7 DAYS AFTER APPLICATION

GENERAL INSTRUCTIONS

Before opening, carefully read Directions of Use, Precautionary Statements, Safety Directions and First Aid Instructions. Weeds should be sprayed while actively growing and at their most susceptible stage. As a general guide, annuals should be sprayed when young and perennials just prior to appearance of bud stage. Extremes of cold or drought are unfavourable. The best conditions are when soil is moist, weather fine and rain unlikely within 6 hours following application. **DO NOT** spray weeds outside the stages indicated in “Critical Comments” as damage, loss of yield or inadequate weed control may result. **DO NOT** spray in high winds.

APPLICATION/MIXING INFORMATION

This product mixes readily with water. Half fill the spray tank with clean water and add the required amount of product. Agitate thoroughly before adding remainder of water.

BOOM SPRAYING – Use 30-120 L/ha of water

AERIAL SPRAYING – Use 10-90 L/ha of water

EQUIPMENT MAINTENANCE AND USAGE

Equipment that have been used for this chemical should not be used for the application of other materials to sensitive plants unless it has been well washed out with Spraymate Tank & Equipment Cleaner following by several clear water rinses.

COMPATIBILITY/ TANK MIXES

This product can be mixed with Ally*/Associate*, Kamba*, Bromicide*, Flowable Diuron, Flowable Terbutryn, Glean*/Siege*, Glyphosate, Roundup[^], Grasp*, Nugrass*/Hoegrass*, Nugran/Logran*, Nugrex/Tigrex*, Lontrel*/Archer™, Propon, Puma*. When tank mixing add the required amount of compatible product when the spray tank is nearly full and while continuously agitating. If left overnight, agitate thoroughly before spraying. When mixing with Nugrass or Hoegrass, add an approved surfactant and do not exceed 700 mL of NAADCO MCPA per hectare. For consistent results, use a minimum of 80 L water per hectare by ground and 30 L by air, and if wild oats are present, use 2 L of Nugrass per hectare.

RESISTANT WEEDS WARNING

GROUP I HERBICIDE

NAADCO MCPA Low-Volatile Ester Herbicide is a member of the Phenoxy group of herbicides. NAADCO MCPA Low-Volatile Ester Herbicide has the Disruptors of plants cell growth mode of action. For weed resistance management NAADCO MCPA Low-Volatile Ester Herbicide is a Group I Herbicide. Some naturally-occurring weed biotypes resistant to NAADCO MCPA Low-Volatile Ester Herbicide and other Group I herbicides may exist through normal genetic variability in any weed population. The resistance individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds will not be controlled by NAADCO MCPA Low-Volatile Ester Herbicide or other Group I herbicides.

Since the occurrence of resistant weeds is difficult to detect prior to use, NAADCO accepts no liability for any losses that may result from the failure of NAADCO MCPA Low-Volatile Ester Herbicide to control resistant weeds.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

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. Avoid spray drift and vapour movement onto susceptible crops such as cotton, vines, tomatoes, vegetables, fruit trees, lucerne, legume crops and pastures, oilseed crops or other susceptible crops or trees (eg. Kurrajongs, belahs, eucalypts).

Legume Tolerance: The tolerance of pasture legumes to this product can vary with species, variety, growing conditions, stages of growth and companion crop cover. While MCPA is preferable to 2,4-D in most situations, this product will cause greater damage than MCPA amine formulation. Lucerne and medics should not be sprayed under any circumstances with this product as severe damage will result.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

DO NOT contaminate streams, rivers or waterways with the chemical or used container.

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^ Roundup is a registered trademark of Monsanto Technology LLC.

* Other registered trademarks

APVMA Approval No.: /

WEED TABLE: Specific Weed Control Recommendations

Where weeds are to be sprayed in a crop or pasture, use only the rates given for the particular crop or situation indicated under the Directions of Use table.

In most cases this will give control, however some hard to kill weeds or those in advanced stages of growth may only be suppressed.

The rates listed in the weeds table below are for use where weeds only are present and crop or pasture is not involved. Use at these rates in a crop or pasture other than for spot spraying may cause damage.

Weeds	Rate/ha	Critical Comments
Bathurst Burr (<i>Xanthium spinosum</i>)	1.6 L	Moderately susceptible. Spray young seedlings.
Capeweed (<i>Arctotheca calendula</i>)	1.7 L	Apply up to 2-4 leaf stage only when plants are no larger than 5cm in diameter.
Charlock (<i>Sinapis arvensis</i>)	500 mL- 1.6 L	Young rosettes very susceptible.
Dandelion (<i>Taraxacum officinale</i>)	1.6 L	Apply in early rosette stage.
Fat Hen (<i>Chenopodium album</i>)	1-1.6 L	Tolerance increases with age. Use lower rate only on seedlings.
Fumitory (<i>Fumaria</i>)	1.1 L	Moderately susceptible. Spray up to first true leaf stage. (Not Tas).
Hedge Mustards (<i>Sisymbrium spp</i>)	560 mL- 1 L	Apply at rosette stage.
Lincoln Weed (<i>Diplotaxis tenuifolia</i>)	700 mL	Apply up to rosette stage only.
London Rocket (<i>Sisymbrium irio</i>)	1.1 L	Spray at young stage.
Noogoora Burr (<i>Xanthium occidentale</i>)	1.6 L	Tolerance increases with age. Spray young seedlings only.
Paterson's Curse (<i>Echium plantagineum</i>)	1.7 L	Apply at 2 to 4 leaf stage
Saffron Thistle (<i>Carthamus lanatus</i>)	1.1-1.9 L	Spray young rosettes before leaves become spiny.
Scotch (Cotton) Thistle (<i>Onopordum acanthium</i>)	700 mL- 1.7 L	Spray young rosettes.
Skeleton Weed (<i>Chondrilla juncea</i>)	1.1-1.6 L	Moderately susceptible. Spray rosettes before aerial growth commences.
Slender Thistle (<i>Carduus tenuiflorus</i>)	2.1 L	Moderately susceptible. Spray young rosettes.
Spear Thistle (<i>Cirsium vulgare</i>)	1.5-2.1 L	Moderately susceptible. Spray young rosettes.
Stinkwort (<i>Dittrichia graveolens</i>)	1.6 L	Spray very young before plants 15cm high.
Turnip Weed (<i>Rapistrum rugosum</i>)	700 mL- 1.1 L	Apply up to rosette stage. Apply lower rates to seedlings.

Weeds	Rate/ha	Critical Comments
Volunteer Canola (<i>Brassica napus</i>)	1.5 L	Apply to seedlings only.
Variegated Thistle (<i>Silybum marianum</i>)	840 mL- 1.1 L	Spray at pre-cabbage stage.
Volunteer Safflower (<i>Carthamus tinctorius</i>)	1 L	Apply to seedlings only.
Volunteer Sunflower (<i>Helianthus annuus</i>)	1.5 L	Apply to seedlings only.
Wild Radish (<i>Raphanus raphanistrum</i>)	1.1-1.6 L	Apply up to 2 to 3 leaf stage only.
Wild Sage (<i>Salvia verbenaca</i>)	1.1 L	Spray young seedlings.
Wild Turnip (<i>Brassica spp</i>)	500 mL- 1.5 L	Spray young rosettes. Lower rates for seedlings.