

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



LV MCPA /Diflufenican

SELECTIVE HERBICIDE

ACTIVE CONSTITUENTS: 250 g/L MCPA present as the ethyl hexyl ester
25 g/L DIFLUFENICAN
SOLVENTS: 330 g/L LIQUID HYDROCARBONS
150 g/L N-METHYL-2-PYRROLIDONE

GROUP F I HERBICIDE

For the control of certain broadleaf weeds in winter cereals and clover as specified in the DIRECTIONS FOR USE table
IMPORTANT: READ THIS LEAFLET BEFORE OPENING OR USING THIS PRODUCT

4 FARMERS AUSTRALIA PTY LTD
A.B.N. 51 160 092 428

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Batch Number: _____ Date of Manufacture: _____
APVMA Approval No.: 64175/1109

GENERAL INSTRUCTIONS: RESISTANT WEEDS WARNING

GROUP F I HERBICIDE

4Farmers LV MCPA/Diflufenican Selective Herbicides is a member of the phenoxy and nicotinanilide groups of herbicides and acts by inhibiting carotenoid biosynthesis and disrupting plant cell growth. For weed resistance management 4Farmers LV MCPA/Diflufenican Selective Herbicides is both a Group F and a Group I herbicide. Some naturally occurring weed biotypes resistant to 4Farmers LV MCPA/Diflufenican Selective Herbicides and other Group F and I herbicides may exist through normal genetic variability in any weed population. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds will not be controlled by 4Farmers LV MCPA/Diflufenican Selective Herbicides or other Group F or Group I herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, 4 Farmers Australia Pty Ltd accepts no liability for any losses that may result from the failure of 4Farmers LV MCPA/Diflufenican Selective Herbicides to control resistant weeds.

TOLERANCE

Some pre-emergence herbicides, such as atrazine, can cause stress to certain crops resulting in an increase in crop damage when using this product. Subterranean clover is particularly sensitive.

Cereals

After application some transient crop yellowing may occur. This usually appears as yellow or white banding on leaves. Provided the crop is not under stress from pre-emergent herbicide, root disease, insect damage, frost, dry or excessively moist conditions, the development of the crop and subsequent growth will be unaffected.

Warning (Oats)

The tolerance of oat varieties Esk and Nile (the two main varieties grown in Tasmania) to 4Farmers LV MCPA/Diflufenican Selective Herbicides has not been tested. Test a small area of crop before using 4Farmers LV MCPA/Diflufenican Selective Herbicides over large areas. Consult your local 4 Farmer's Australia Pty Ltd representative for advice on specific varieties.

Pasture

The tolerance of clover varieties to 4Farmers LV MCPA/Diflufenican Selective Herbicides can vary with rate of application, soil type, crop health, stage of growth and degree of moisture and temperature stress.

Warning

4Farmers LV MCPA/Diflufenican Selective Herbicides may result in transient crop yellowing and suppression of growth with a resultant initial reduction in dry matter, particularly at rates in excess of 500 mL/ha and in areas of double spray. For this reason we recommend application prior to the 8 trifoliolate leaf stage. However, at the lower rates (500 mL/ha and less) and under normal growing conditions, subsequent growth and seed yield should not be affected.

Under normal growing conditions, the following varieties have shown acceptable levels of foliage tolerance to 4Farmers LV MCPA/Diflufenican Selective Herbicides applied at 500 mL/ha:

ArrowLeaf: Zulu
Balansa: Paradana
Berseem: Sacromonte
Persian: Kyambro, Lupers, Maral
White: Haifa

Subterranean clover: Daliak, Dalkeith, Denmark, Esperance, Geraldton, Goulburn, Karridale, Larissa, Mt.Barker, Nungarin, Rosedale, Seaton Park, Trikkala and Woogenellup.

The effects of 4Farmers LV MCPA/Diflufenican Selective Herbicides on clover seed yield have been tested on the following varieties. Under normal growing conditions they show acceptable levels of tolerance to 4Farmers LV MCPA/Diflufenican Selective Herbicides applied at 500 mL/ha:

Subterranean clover: Esperance, Goulburn, Larissa, Seaton Park and Trikkala.

Warning

Rose and Strawberry clover have shown increased sensitivity to 4Farmers LV MCPA/Diflufenican Selective Herbicides. 4Farmers LV MCPA/Diflufenican Selective Herbicides may affect the seed yield of subterranean clover variety Woogenellup. Some pasture grasses, including Phalaris and Cocksfoot, may show some initial reduction in vegetative growth after application of 4Farmers LV MCPA/Diflufenican Selective Herbicides. Care should be exercised if sensitive clover varieties or grasses are included in the pasture sward.

Varieties not listed should be tested before using 4Farmers LV MCPA/Diflufenican Selective Herbicides over large areas. Consult your local 4 Farmer's Australia Pty Ltd representative for advice on specific varieties.

Subsequent Crops

To reduce effect on subsequent susceptible crops (e.g. canola), ensure thorough cultivation of soil prior to the sowing of these crops.

MIXING

To ensure even mixing, half fill the spray tank with clean water and add the required amount of product. Agitate thoroughly then add the remainder of the water. Agitate again before spraying commences. Reseal part-used product container immediately after use. Spray mixtures containing 4Farmers LV MCPA/Diflufenican Selective Herbicides should not be left to stand overnight. Prolonged periods of exposure to cold temperatures could result in settling out of the product in the mixture.

Warning

The rubber components present in some spraying units may be affected by exposure to the solvents in 4Farmers LV MCPA/Diflufenican Selective Herbicides and some other agricultural products. To reduce this risk it is recommended that the spray unit be thoroughly washed with a boom cleaner and fresh water after use. Contact the spray unit manufacturer to determine the suitability of the rubber components for use with agricultural products.

APPLICATION

Boom Sprayer

A minimum of 50 L of water per hectare should be used, however, for optimum results water rates of 70-100 L/ha are recommended. Increase the water volume if weed infestation is heavy or crop cover is dense. Complete coverage of weeds is essential.

Aircraft (NSW, Vic, SA only)

Apply in a minimum of 30 L water per hectare. Effective weed control will only be achieved where good coverage of leaf surface is achieved.

DIRECTIONS FOR USE

RESTRAINTS

DO NOT apply if crop or weeds are stressed due to dry or excessively moist conditions.

DO NOT apply to crops under stress due to disease or insect damage.

DO NOT apply to frost-affected crops or if frosts are imminent.

DO NOT apply when heavy rain is expected within 4 hours.

CROP	WEEDS CONTROLLED	STAGE OF WEED GROWTH	STATE	RATE/HA	CRITICAL COMMENTS	
CEREALS Wheat, barley, oats, triticale, cereal rye (including cereals undersown with clover)	Wild radish	Up to the 2 leaf stage and not more than 60 mm in diameter	WA only	250 mL	CROP STAGE Cereals Up to 750 mL (3 leaf to fully tillered stage - Z13 to 30) Over 750 mL (5 leaf to fully tillered stage - Z15 to 30) Optimum results are achieved when sprayed 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: 4Farmers LV MCPA/ Diflufenican Selective Herbicide may cause transient crop yellowing of cereals. Some varieties of oats have not been tested. (Refer to "Crop Tolerance" section of General Instructions) Clover Application is recommended prior to the eighth trifoliolate leaf stage, however, applications prior to the third leaf stage may result in crop damage especially under stressed conditions and in sandy soils. DO NOT apply to Annual Medics or lucerne. Warning: 4Farmers LV MCPA/ Diflufenican Selective Herbicide may cause transient crop yellowing of clover, and may affect growth and seed set of some varieties of clover. (Refer to "Crop Tolerance" section of General Instructions). WEED STAGE Apply when weeds are actively growing. In most situations the rate specified for each weed size will give satisfactory control. Under certain conditions such as: * high crop and weed density * late season germinations * abnormal weed growth (including early flowering), higher rates of product (up to the maximum rate of application specified for that weed) may be required. 4Farmers LV MCPA/ Diflufenican Selective Herbicide will not effectively control: • regrowth of suppressed weeds; • transplanted weeds; • regrowth from rhizomes or roots; • weeds growing under stress from previous herbicide applications GRAZING Efficacy on larger weeds will be improved by grazing with normal levels of stock after the 7 day withholding period. Refer to "Protection of Livestock" for grazing precautions. APPLICATION Activity of this product will be reduced if weeds are stressed. Optimum results will be obtained if good soil moisture exists at and after application. Where crop or weed density is high, water volume should be increased. WILD RADISH 4Farmers LV MCPA/ Diflufenican Selective Herbicide will provide residual control of Wild Radish for up to 4 weeks after application. Effective residual activity of this product may be reduced where: • rates lower than 1.0 L/ha are used; • dry conditions prevail; • poor coverage of the soil surface is achieved; • crop is planted in non-wetting sand; • soils contain a high content of organic matter. Optimum results will be obtained if good soil moisture exists at and after application.	
		Up to the 4 leaf stage and not more than 120 mm in diameter	All States	500 mL		
		Up to the 6 leaf stage and not more than 150 mm in diameter		750 mL		
		Up to the 8 leaf stage and not more than 180 mm in diameter		1.0 L		
	PASTURE Newly sown and established clover-based pasture, clover for hay and seed production	Charlock, hedge mustard, Indian hedge mustard, shepherd's purse, turnip weed, wild turnip	Up to the 2 leaf stage and not more than 60 mm in diameter			500 mL
			Up to the 4 leaf stage and not more than 120 mm in diameter			750 mL
			Up to the 6 leaf stage and not more than 150 mm in diameter			1.0 L
	London rocket	Up to the 5 leaf stage and not more than 120 mm in diameter	Qld only	SA only		750 mL
	Ward's weed					
	Capeweed	Up to the 2 leaf stage and not more than 60 mm in diameter	All States			500 mL
		Up to the 4 leaf stage and not more than 120 mm in diameter				1.0 L
	Crassula	Up to the 2 leaf stage				500 mL
						Up to the 4 leaf stage
	Prickly lettuce	Up to the 2 leaf stage				500 mL
Up to the 4 leaf stage					750 mL	
Up to the 6 leaf stage					1.0 L	
Dense-flower fumitory	Up to the 2 leaf stage			750 mL		
Corn gromwell, saffron thistle, toad rush				1.0 L		
Deadnettle			NSW, Vic, SA only			
Sorrel	Up to the 2 leaf stage		Vic only	1.0 L		
Canola (rape)	Up to the 4 leaf stage		All States	500 mL		
Purple goosefoot	Up to the 6 leaf stage		Qld only	500 mL		
Turnip weed, wild turnip	Cotyledon 2 leaf stage		NSW only (West of Newell Hwy.) SA only (Eyre peninsula north of the line between Venus Bay and Cowell)	350 mL		
CEREALS Wheat, barley, oats, triticale, cereal rye	Fumitory	2 - 6 leaf stage	All States	500 mL + 200 mL terbutryn1 (500 g/L)		
SUPPRESSION OF THE FOLLOWING WEEDS						
CEREALS Wheat, barley, oats, triticale, cereal rye (including cereals undersown with clover)	Saffron thistle	Up to the 6 leaf stage	All States	1.0 L		
				Chickwee, fireweed, hexham scent (King Island melilot), iceplant, mouse-eared chickweed, night-scented stock, Paterson's curse, peppercress, skeleton weed, long storkbill, volunteer lupins	750 mL	
					1.0 L	
PASTURE Newly sown and established clover based pasture, clover for hay and seed production	Wireweed (hogweed)	Up to the 2 leaf stage		1.0 L		
				Common sowthistle (milk thistle), cowvine, dock, doublegee (spiny emex), fat hen, horehound, hyssop loosestrife, marshmallow, rough poppy, scarlet pimpernel, stemless thistle, tree hogweed, variegated thistle, vetch (tares)		
CEREALS Wheat, barley, oats, triticale, cereal rye	Wild radish	Up to the 4 leaf stage and not more than 120 mm in diameter		350 mL plus 200 mL 4Farmers MCPA LVE (500 g/L)		
		Up to the 6 leaf stage and not more than 150 mm in diameter		500 mL plus 200 mL 4Farmers MCPA LVE (500 g/L)		
		Up to the 8 leaf stage and not more than 180 mm in diameter*		500 mL plus 400 mL 4Farmers MCPA LVE (500 g/L)		

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

WITHHOLDING PERIODS

CROP HARVEST: NOT REQUIRED WHEN USED AS DIRECTED

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

COMPATIBILITY

The following products are physically compatible with 4Farmers LV MCPA/Diflufenican Selective Herbicides as a two-way mixture in the spray tank but should only be used for the crops specified:

CROP	4Farmers LV MCPA/Diflufenican Selective Herbicides	COMPATIBLE PRODUCT
Wheat, triticale and cereal rye only	Up to 750 mL/ha	4Farmers Diclofop-P-Methyl 375 or 500 EC (also barley), Wildcat (wild oats only), Tristar ¹ Advance (1.5 L rate only).
Cereals (including undersown)	All rates	4Farmers Chlorpyrifos 500 EC, 4Farmers Dimethoate 400, Thiodan ¹ .
Cereals (not undersown)	Up to 500 mL/ha	4Farmers Metsulfuron-Methyl 600WG, 4Farmers Chlorsulfuron 750WG, 4Farmers Triasulfuron 750WG, 4Farmers MCPA LVE 500 EC
	All rates	4Farmers Bromoxynil 200 EC, 4Farmers Clopyralid 300 herbicide, Tordon ¹ 50-D, Cadence ¹ (up to 115 g only), Eclipse ¹
Wheat, barley, triticale, and cereal rye only (not undersown)	All rates	4Farmers Tralkoxydim 400 WG
Wheat only (not undersown)	All rates	4Farmers Clodinafop 240 EC
Clover	Up to 750 mL/ha	4Farmers Quizalofop-P-Ethyl 100 or 200 EC, Fusilade ¹
Subterranean clover		4Farmers Paraquat 250 mixture
	Up to 1.0 L/ha	2,4-DB amine (500 g/L)

When mixing with other herbicides, crop yellowing may be enhanced. When mixing with products containing the active constituent Diclofop-P-Methyl, Fenoxaprop-P-Ethyl or with Wildcat or Tristar Advance¹ some reduction in the efficacy and speed of action of these products may occur. If the crop is stressed, the application of the herbicide tank-mixtures may cause yield reduction. When mixing with Cadence¹ a temporary wilting may be evident in some crops after application. Growers should seek advice before spraying recently released cereal varieties.

Use the recommended rates for both herbicides in the tank-mixture as well as the surfactant recommendation of the grass herbicide. If another herbicide is applied as a tank mix, observe the plantback restrictions on that label. DO NOT add surfactant when mixing 4Farmers LV MCPA/Diflufenican Selective Herbicides and 4Farmers Metsulfuron-Methyl 600WG Herbicide.

Simazine: Refer to the simazine label for correct application rates, especially with regard to soil types.

This product may be mixed in the spray tank with one of the following insecticides according to the directions for use on this product: Hallmark¹ 50EC, 4Farmers Alpha-Cypermethrin 100EC, Karate¹, Decis Options¹, and 4Farmers Bifenthrin 100EC.

¹ NOT A TRADE MARK OF 4 FARMERS AUSTRALIA PTY LTD

Common name	Scientific name
Canola (rape)	<i>Brassica napus</i>
Capeweed	<i>Arctotheca calendula</i>
Charlock	<i>Sinapis arvensis</i>
Chickweed	<i>Stellaria media</i>
Common sowthistle (milk thistle)	<i>Sonchus oleraceus</i>
Corn gromwell	<i>Buglossoides arvensis</i>
Cowvine	<i>Ipomoea lonchophylla</i>
Crassula	<i>Crassula spp.</i>
Deadnettle	<i>Lamium amplexicaule</i>
Dense-flower fumitory	<i>Fumaria densiflora</i>
Dock	<i>Rumex spp.</i>
Doublegee (spiny emex)	<i>Emex australis</i>
Fat hen	<i>Chenopodium album</i>
Fireweed	<i>Senecio spp.</i>
Fumitory	<i>Fumaria spp.</i>
Hedge mustard	<i>Sisymbrium officinale</i>
Hexham scent (King Island melilot)	<i>Melilotus indicus</i>
Horehound	<i>Marrubium vulgare</i>
Hyssop loosestrife	<i>Lythrum hyssopifolia</i>
Iceplant	<i>Mesembryanthemum spp.</i>
Indian hedge mustard	<i>Sisymbrium orientale</i>
London rocket	<i>Sisymbrium irio</i>
Long storksbill	<i>Erodium botrys</i>
Marshmallow	<i>Malva parviflora</i>
Mouse-eared chickweed	<i>Cerastium glomeratum</i>
Night-scented stock	<i>Matthiola longipetala</i>
Paterson's curse	<i>Echium plantagineum</i>
Peppercress	<i>Lepidium spp.</i>
Prickly lettuce	<i>Lactuca serriola</i>
Purple goosefoot	<i>Scleroblitum atriplicinum</i>
Rough poppy	<i>Papaver hybridum</i>
Saffron thistle	<i>Carthamus lanatus</i>
Scarlet pimpernel	<i>Anagallis arvensis</i>
Shepherd's purse	<i>Capsella bursa-pastoris</i>
Skeleton weed	<i>Chondrilla juncea</i>
Sorrel	<i>Rumex spp.</i>
Stemless thistle	<i>Onopordum acaulon</i>
Toad rush	<i>Juncus bufonius</i>
Tree hogweed	<i>Polygonum patulum</i>
Turnip weed	<i>Rapistrum rugosum</i>
Variegated thistle	<i>Silybum marianum</i>
Vetch (tares)	<i>Vicia sativa</i>
Volunteer lupins	<i>Lupinus spp.</i>
Ward's weed	<i>Carrichtera annua</i>
Wild radish	<i>Raphanus raphanistrum</i>
Wild turnip	<i>Brassica tournefortii</i>
Wireweed (hogweed)	<i>Polygonum aviculare</i>

Warning

DO NOT use crop oils with 4Farmers LV MCPA/Diflufenican Selective Herbicides or 4Farmers LV MCPA/Diflufenican Selective Herbicides tank mixtures with other products in cereals.

As formulations of other manufacturer's products are beyond the control of 4 Farmers Australia Pty Ltd, all mixtures should be tested prior to mixing commercial quantities.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

DO NOT apply under weather conditions, or from spraying equipment, that may cause drift onto nearby susceptible plants/crops, cropping lands or pastures. Avoid spray drift and vapour movement onto susceptible crops such as cotton, tobacco, tomatoes, vines, lupins, fruit trees and ornamentals.

PROTECTION OF LIVESTOCK

Grazing Precaution

Sprayed weeds may become more palatable to stock and a higher intake of some weeds may result in stock poisoning and death from causes such as nitrate poisoning. Care should be taken especially where capeweed, Paterson's curse and variegated thistles predominate in the pasture. Avoid grazing with young or breeding stock. Do not graze horses or pigs on Paterson's curse. If in doubt, contact your nearest Department of Agriculture.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Dangerous to fish. DO NOT contaminate streams, rivers or waterways with the chemical or used containers.

STORAGE AND DISPOSAL

(20L 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 the spray tank. Do not dispose of undiluted chemicals 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 is available, bury the empty 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. If the container is a returnable/refillable type, when empty, or contents no longer required, return the container to the point of purchase. This type of container remains the property of 4Farmers Australia Pty Ltd.

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 supply for refill or storage.

ENVIRODRUM MINI BULK CONTAINER

(110L Only)

Store the original sealed ENVIRODRUM in a cool well ventilated area. DO NOT store for prolonged periods in direct sunlight. DO NOT tamper with Micro Matic valve or 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 4 Farmers Australia Pty Ltd.

SAFETY DIRECTIONS

Harmful if swallowed. Will damage the eyes. Will irritate the skin. Avoid contact with eyes and skin. When opening the container and preparing the spray, wear cotton overalls buttoned to the neck and wrist, washable hat, elbow length PVC gloves and face shield or 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, face shield or goggles and contaminated clothing.

FIRST AID

If poisoning occurs contact a doctor or Poisons Information Centre. Phone Australia 13 11 26. If swallowed, DO NOT induce vomiting. Give a glass of water. If in eyes, wash out immediately with water.

SAFETY DATA SHEET

For further information please refer to the Safety Data Sheet. For a copy visit our website at www.4farmers.com.au

EXCLUSION OF LIABILITY

This product must be used strictly as directed, and in accordance with all instructions appearing on the label and in other reference material. So far as it is lawfully able to do so, 4 Farmers Australia Pty Ltd accepts no liability or responsibility for loss or damage arising from failure to follow such directions and instructions.

In a Transport Emergency Dial 000 Police or Fire Brigade	Special Poisons Advice: 13 11 26
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