

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

**CHEMAG
ESTER 800
HERBICIDE**

Active Constituent: 800g/L 2,4-D PRESENT AS THE ETHYL ESTER

GROUP I HERBICIDE

**For the control of broadleaved weeds before
direct drilling or sowing and pastures;
and in cereal crops (not oats), pastures, sugar
cane and non-agricultural areas as per the
Directions For Use table.**

**READ THE ATTACHED LEAFLET BEFORE OPENING OR USING THE
PRODUCT.**

CONTENTS: 5/20/200/1000 Litres

**ChemAg Pty Ltd. ABN 27 009 234 691
PO Box 395, Como, WA, 6152**

GENERAL INSTRUCTIONS:

Before opening, carefully read Directions for Use, Precautionary Statements, Safety Directions and First Aid Instructions.

DO NOT spray in high winds. DO NOT spray crops or weeds outside the stages indicated in the Critical Comments as damage, loss of yield or inadequate weed control may result.

APPLICATION INFORMATION: This product may be used in either high or low volume sprays. Just pour into water and stir.

BOOM SPRAYING - Use 30-120 litres water/ha.

AERIAL SPRAYING - Use 10-90 litres water/ha.

EQUIPMENT MAINTAINENCE AND USAGE: Keep the spray unit for herbicides only if possible. Otherwise wash out the unit with hot soapy water followed by several clear water rinses. Do not use wooden spray vats as they cannot be cleaned. Hoses cannot be cleaned and new hoses should be fitted when the unit is to be used for any other purpose.

COMPATIBILITY: This product can be tank mixed Banvel®, Glean®, Seige®, Gramoxone®, Propon™, Nutrazine®, Sprayseed® and Glyphosate.

RESISTANT WEEDS WARNING: CHEMAG ESTER 800 Herbicide is a member of the Phenoxy group of herbicides. CHEMAG ESTER 800 has the Disruptors of plant cell growth mode of action. For weed resistant management CHEMAG ESTER 800 is a Group I herbicide.

Some naturally-occurring weed biotypes resistant to CHEMAG ESTER 800 and other disruptors of plant cell growth 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 CHEMAG ESTER 800 or other disruptors of plant cell growth herbicides.

Since the occurrence of resistant weeds is difficult to detect prior to use, ChemAg Pty Ltd accepts no liability for any losses that may result from the failure of CHEMAG ESTER 800 to control resistant weeds.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS:

Legume Tolerance: If clovers are present, care should be taken to ensure that they have reached the 3-4 leaf stage before spraying. Rates above 350ml of this product per hectare will destroy most clovers, whilst lucerne and medics are susceptible at any strength.

Drift Warning: DO NOT apply under meteorological conditions or from spraying equipment which could be expected to cause spray to drift onto nearby susceptible plants, adjacent crops, crop lands or pastures. In particular, avoid spray drift and vapour movement onto susceptible crops such as cotton, tobacco, tomatoes, vines, fruit trees, ornamentals, oilseed and legume crops and other susceptible plants and trees (Eg. Kurrajongs, Eucalyptus and Belahs).

PROTECTION OF LIVESTOCK: Low hazard to bees. May be applied on any plants at any time as recommended.

PROTECTION OF WILDLIFE, FISH, CRUSTACEA AND ENVIRONMENT:

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

STORAGE AND DISPOSAL: Store in the closed, original container in a dry, well-ventilated area away from children, animals, food, feedstuffs, seed and fertilizers. Do not store for prolonged periods in direct sunlight. Dispose of excess spray solution and empty containers by burial at an approved disposal site. Triple (or preferably) pressure rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemical on-site. Break, crush, or puncture and bury empty containers in a local authority landfill. If not available bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, vegetation and roots. Empty containers and product should not be burnt.

SAFETY DIRECTIONS: Poisonous if swallowed. Avoid contact with eyes and skin. Do not inhale spray mist. When preparing spray wear PVC or rubber apron, elbow-length PVC gloves and face shield. When using the prepared spray wear face shield. If product on skin immediately wash area with soap and 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 and contaminated clothing.

FIRST AID: If poisoning occurs, contact a doctor, or Poisons Information Center (Phone 131126). If swallowed, and more than 15 minutes from a hospital induce vomiting, preferably using Ipecac Syrup APF.

CONDITIONS OF SALE: "ChemAg Pty Ltd 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 ChemAg's skill of judgment in purchasing or using the same and every person dealing with this product does so at his own risk absolutely. No representative of ChemAg has any authority to add to or alter these conditions".

NRA Approval No.

For further information, refer to the Material Safety Data Sheet (MSDS)

In case of emergency: Phone 000 Police or Fire Brigade

**CHEMAG
ESTER 800**

HERBICIDE

Active Constituent: 800g/L 2,4-D PRESENT AS THE ETHYL ESTER

GROUP I HERBICIDE

For the control of broadleaved weeds before direct drilling or sowing of cereals and pastures; and in cereal crops (not oats), pastures, sugar cane and non-agricultural areas as per the Directions For Use table.

READ THOROUGHLY BEFORE USING

**MICROBERT Pty. Ltd. ACN 009 234 691
PO Box 395, Como, WA, 6152**

DIRECTIONS FOR USE

Restraints: DO NOT spray if rain seems likely within 6 hours or if strong wind prevails.
DO NOT apply if crop or weeds are stressed due to dry or excessively moist conditions.

1. FIELD CROPS

Situation & Crop	Weeds Controlled	State	Rate / ha	Withholding Period (days)	Critical Comments	
Wheat, Barley	Refer Weed Table	Vic only	180 to 700ml	7	CROP STAGES: ALL CEREALS Apply at tillered to boot stages (Vic only) Apply after when the first node can be felt at the base of a tiller and before swelling of the head can be felt in a tiller (NSW only) Apply from mid-tillering to before the boot stage (Qld only) Apply from completion of tillering to early jointing stage (SA only) Apply from 5 leaf stage up to jointing stage (Zadoks 15-33) Apply only at 6 leaf stage for Cranbrook and Jacup Wheats (Z16) to avoid possible damage (WA only).	
		Qld, NSW only	350 to 700ml			
		SA only	200 to 700ml			
		WA only	700ml			
		Triticale	Qld, NSW only			350 to 700ml
			SA only			200 to 700ml
			Vic only			180 to 700ml
		Cereal Rye	NSW, Qld only			350 to 700ml
			Vic only			180 to 700ml
		Sugar Cane	Qld only			2.1 to 4L
Fallow, Stubble Spray prior to Direct Drilling or Sowing a) Winter Cereals	Refer Weed Table	Vic only	180 to 700ml	Do not sow within 2 weeks of spraying under wet soil conditions and 3 weeks under dry soil conditions as establishment may be impaired. Sowing need not be delayed in Qld. Can be tank mixed with Glyphosate Gramoxone ® or Spray Seed ® where grasses are present.		
		NSW only	350 to 700ml	For skeleton weed, spraying should only be done 6-8 weeks before anticipated sowing date and subsequent cultivation limited to a minimum. (NSW only)		
		Qld only				
b) Winter Cereals & Maize, Sweetcorn, Peanuts						
Harvest Aid or Salvage Spray - Winter Cereals	Broadleaf Weeds	NSW, Vic only	1.4L		Apply after dough stage of crop. Interval between application and effectiveness is 10-20 days. For dessication of green matter, estimate harvest date and apply spray approximately 14 days earlier. Rain between spraying and actual harvest can negate results N.B. Where thistles are tall and branching above the crop, spraying can turn the branches down into the crop, presenting more stalks to cause header comb blockages. Spraying may increase seed contamination or harvest by accelerating maturity. Do not use with undersown legumes that have not set seed.	
	Refer to Weed Table					

2. PASTURES, NON-AGRICULTURAL, INDUSTRIAL

Situation & Crop	Weeds Controlled	State	Rate/ha	Withholding Period (days)	Critical Comments
Improved Pasture containing Clover	Refer to Weed Table	NSW, SA Qld only	350 to 700ml	7	Clover must be well covered by the grass or extensive damage may result.
Pastures - non legumes, Rights of Way, Industrial		NSW, SA WA, Qld only	700ml to 4L		Control of most perennial weeds, but due to the rooting habits of most species, control may take a number of years. Damage may result to legumes in pasture.
		Vic only	700ml to 5.6L 60 to 500ml		Boom spray. Spot spraying
Pastures - Direct Drilling or Surface Sowing	Charlock, Clover, Medics, Mustards, Paterson's Curse, Saffron, Slender, Variegated and Spear Thistles, Turnip Weed, Wild Radish, Wild Turnip	NSW, Qld, Vic, WA only	700ml to 1.25L (Aerial Application)		Apply to young, actively growing weeds. SOWING: Do not sow pasture seed for at least 21 days after application. If soil moisture is dry, delay sowing for at least 30 days.
	As above plus: Capeweed, Wireweed, Storksbill/Erodium, Flatweed, Horehound (seedlings), Skeleton Weed, Nodding Thistles.		700ml to 1L (Ground Application)		
	St John's Wort		2.8 to 4L (Aerial or Ground)		
	All of the above plus grasses.		As above plus Propon or Glyphosate		

3. SPOT SPRAYING

Situation & Crop	Weeds Controlled	State	Rate/ha	Withholdin g Period (days)	Critical Comments
Spot Spraying (All Situations)	Refer to Weed Table	NSW, Qld Vic, SA, WA only	1/100 th of rate on Weed Table per 10L water per 100m ²	7	Apply through Knapsack. Thorough wetting of weed is essential.

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

WITHHOLDING PERIOD: PASTURES, CEREAL CROPS - DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 7 DAYS AFTER APPLIACION.

WEED TABLE

NOTE: 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 for 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 product should only be used in those states where a rate or range of rates is indicated for the particular weeds listed.

**Application Rate Per Hectare
PASTURES - NON LEGUMES**

WEEDS CONTROLLED	VIC	SA	NSW	QLD	WA	VIC	NSW, SA, QLD, WA only	CRITICAL COMMENTS
Amaranthus spp Angled Onion Apple of Sodom Bathurst Burr			700ml			2.8L	700ml to 1.4L 2.5 to 2.8L	Critical Comments Spray when buds forming or early flowering.
Black Knapweed Buffalo Burr			700ml			1.4 to 2.8L	1 to 1.4L	Spray from seedling to pre-flowering. Use higher rate as plant matures. In SA use 1.4 to 2.8L/ha.
California Burr			700ml			1.8L	700ml to 1L (not Qld and WA)	Spray before flowering. DO NOT cultivate these infestations. Spray from seedling to pre-flowering. Use higher rate as plant matures.
Caltrop			500-700ml			1.4 to 2.8L	1 to 1.4L (not SA)	Spray from seedling to pre-flowering. Use higher rate as plant matures.
Cape Tulip Capeweed Charlock Clover Colocynth Deadnettle	700ml 350ml	700ml 350ml	450-700ml 350ml 500-700ml 700ml		700ml	2.8L 2.8L	1.4 to 2.8L 1 to 1.4L 700ml 700ml	Spray before flowering. Spray up to rosette stage. Spray up to rosette stage. Spray at seedling stage only.

Devil's Claw			700ml			1.1L	1 to 1.4L (not SA)	Spray prior to pods forming.
Dock	700ml	700ml		700ml	700ml		1.4 to 2.1L	Spray at rosette stage to kill top growth only.
Fathen			350-700ml					
Flatweed			700ml				700ml to 1L	In SA use 2.1 to 2.8L/ha
Fumitory red		700ml	700ml				2.1 to 2.8L	Spray up to rosette stage.
Fumitory white	700ml	350ml	700ml				2.2 to 2.8L	Spray up to rosette stage.
Galvanised Burr						4L	4L (not Qld and WA)	Spray from seedling to pre-flowering
Goosefoots			700ml					
Hard Head or Russian								
Knapweed						2.8 to 4.4L		Spray before flowering.
Hogweed/Wireweed	700ml	700ml	700ml	700ml			1 to 1.4L	Spray up to rosette stage.
Horary Cress/Whiteweed		700ml	700ml			1.4 to 2.8L	1.4 to 1.8L	Spray from late rosette to pre-flowering.
Horehound (seedlings)		700ml					1.4 to 2.8L	Late Autumn to early Spring.
Iron Weed, Corn			700ml				1 to 1.4L	
Gromwell								
Khaki Weed							700ml to 1L (not SA)	Spray young seedlings only.
Lincoln Weed		700ml						Autumn spray before sowing improves control.
London Rocket					500ml			
Lupins	700ml		350-700ml					Spray up to rosette stage.
Melilotus/Hexam Scent	700ml	700ml		700ml			1 to 1.4L	Spray up to rosette stage.
Melons, camel, paddy			350-700ml					
Mustards	280ml	200-700ml	350-700ml	500ml	500ml	2.8L	700ml to 1L	Spray up to rosette stage.
Mexican Poppy			700ml				700ml to 1L	Spray rosette stage and before flowering. In SA use 2/3L/ha
Mintweed			700ml	500ml			700ml to 1L	
Muskweed	700ml							Spray up to rosette stage.
New Zealand Spinach			700ml					
Noogoora Burr			700ml					
Nut Grass						1.4 to 2.8L	1.4 to 2.8L	Spray seedling to pre-flowering.
Patersons Curse			700ml			2.8 to 4.4L		Spray within 4 weeks of foliage emergence, repeat spray when necessary.
Poppy Wild	350ml					1.4 to 2.8L	700ml to 1.4L	Spray seedling to rosette stage.
Ragwort						2.8L	1.8 to 2.5L	Spray up to rosette stage.
Rapeseed	700ml		350-700ml				2.8L	Spray at rosette to cabbage stage.
Rough Poppy		350ml	350-700ml					Spray up to rosette stage.
St John's Wort						2.8 to 4.4L	700ml	Spray young seedlings only.
Safflower			350-700ml				1.8 to 4L	Spray before flowering. Spray before plants are 40cm.
Sand Mustard/Rocket						2.8L		Spray before flowering.
Shepherd's Purse			700ml					
Silver Leaf Nightshade						2.8L		Spray at flowering. Fallowland: controls top growth only.
Skeleton Weed		700ml	700ml			2.8L		Spray rosettes before aerial growth commences.
Stingless Nettle		700ml					1 to 1.4L	
Stinging Nettle	700ml						1.8 to 2.1L	
Stinkwort			700ml					Spray up to rosette stage.
Storksbill/Erodium			700ml			1.4 to 2.8L	1.4 to 2.8L	Spray younger plants, use high rates as plant mature.

Sunflower (seedlings)	700ml		350-700ml	500ml				Spray multiple leaves.
Thistle								
- Golden						2.8L	2.8L	Spray at rosette stage.
- Nodding						2.8L	1 to 1.4L	Spray rosette to pre-flowering.
- Saffron	550ml	700ml	350-700ml	700ml	700ml	700ml-1.4L	700ml to 2.1L	Spray up to rosette stage.
- Slender, Shore			700ml			1.4 to 2.8L	700ml to 2.8L	Spray at rosette stage.
- Soldier						2.8L		Spray at rosette stage.
- Spear	700ml					700ml-2.1L	1 to 1.8L	Spray at seedling to rosette stage. Use higher rate as plant matures.(pastures)
- Stemless						2.8L	2.1 to 2.8L	
- St Barnaby's							1 to 1.4L	Spray rosette stage to flowering.
- Star			700ml			1.4 to 2.8L	1 to 1.4L	
- Variegated			350-700ml	500ml		700ml-2.1L	700ml to 1L	Spray seedling to rosette stage.
Thornapple			350-700ml			2.8L	700ml to 1.4L	Use higher rate as plant matures.
Tree Hogweed	700ml							Spray at rosette stage. Can cause stock poisoning.
TurnipWeed		350ml	350-700ml	350ml	500ml		700ml	Spray at seedling stage. In SA use 3L/ha.
Vetches / Tares	700ml	550ml						Spray up to rosette stage.
Wards Weed		350ml						Spray seedlings only.
Wild Cabbage	700ml							
Wild Garlic						5.6L		Spray at seedling stage.
Wild Mignonette						2.8L		Spray up to rosette stage.
Wild Radish	700ml	700ml	350-700ml	700ml	500ml		700ml	Suppresses aerial growth only.
Wild Sage							2.1 to 2.8L	Spray at rosette stage.
Wild Teasel						1.4 to 2.8L		Spray up to rosette stage.
Wild Turnip	180ml	200ml	350-700ml		350ml		700ml	Spray at rosette stage. Use higher rate as plant matures.
								Spray up to rosette stage.

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

STORAGE AND DISPOSAL: Store in the closed, original container in a dry, well-ventilated area away from children, animals, food, feedstuffs, seed and fertilizers. Do not store for prolonged periods in direct sunlight. Dispose of excess spray solution and empty containers by burial at an approved disposal site. Triple (or preferably) pressure rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemical on-site. Break, crush, or puncture and bury empty containers in a local authority landfill. If not available bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, vegetation and roots. Empty containers and product should not be burnt.

SAFETY DIRECTIONS: Poisonous if swallowed. Avoid contact with eyes and skin. Do not inhale spray mist. When preparing spray wear PVC or rubber apron, elbow-length PVC gloves and face shield. When using the prepared spray wear face shield. If product on skin immediately wash area with soap and 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 and contaminated clothing.

FIRST AID: If poisoning occurs, contact a doctor, or Poisons Information Center. If swallowed, and more than 15 minutes from a hospital induce vomiting, preferably using Ipecac Syrup APF.

CONDITIONS OF SALE: "MICROBERT Pty Ltd 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 MICROBERT's skill of judgment in purchasing or using the same and every person dealing with this product does so at his own risk absolutely. No representative of MICROBERT has any authority to add to or alter these conditions".

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