

CAUTION

KEEP OUT OF REACH OF CHILDREN

ECOPAR[®]

HERBICIDE

ACTIVE CONSTITUENT: 20 g/L PYRAFLUFEN-ETHYL

GROUP	G	HERBICIDE
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For the control of annual broadleaf weeds in winter cereals and pastures; for improvement in the brownout of a range of broadleaf weeds and improved control of marshmallow and wild radish, when used in tank mixtures with Raze[®] or other glyphosate based herbicides as per the Directions For Use Table.

IMPORTANT: READ THE ATTACHED LEAFLET BEFORE USE.

Contents: 5L, 10L, 20L, 110L

APVMA Approval No: 60493 / 102297



SIPCAM PACIFIC AUSTRALIA PTY LIMITED
Level 1, 191 Malop Street Geelong VIC 3220

® Registered Trademark of Sipcam Pacific Australia Pty Ltd

ECOPAR HERBICIDE

STORAGE AND DISPOSAL

Store in the closed, original container in a cool, well ventilated area. Do not store for prolonged periods in direct sunlight. Triple 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 deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots, in compliance with relevant local, state or territory government regulations. Do not burn empty containers or product.

Refillable containers

Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Telephone 131 126 Australia-wide.

SAFETY DATA SHEET

For further information, refer to the Safety Data Sheet (SDS) which is available from the supplier or from our web site, www.sipcam.com.au

NOTICE TO BUYER

This product must be used in accordance with the directions for use. Where this product is not a good of a kind ordinarily acquired for personal, domestic or household use or consumption under the Australian Consumer Law, Sipcam's liability for any direct, indirect or consequential loss which you incur, including, without limitation, loss or damage to crop, loss of equipment, property damage, personal injury or death is limited, at Sipcam's option, to the replacement of the product or the supply of an equivalent product. By opening this package, you agree to be bound by these terms. If you do not agree to these terms, please return the entire unopened package intact to Sipcam or the place in which you purchased this product for a full refund.

Batch Number:

Date of Manufacture:

Not a Dangerous Good for transport by road or rail according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

For specialist advice in emergency only, call 1800 033 111 all hours, Australia wide

G.H.S. STATEMENTS

PREVENTION P262: Do not get in eyes, on skin, or on clothing. P281: Use personal protective equipment as required.

RESPONSE P353: Rinse skin or shower with water. P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P370+P378: Not combustible. Use extinguishing media suited to burning materials.



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THIS LEAFLET IS PART OF THE LABEL

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DIRECTIONS FOR USE: All States

RESTRAINTS:

DO NOT tank mix ECOPAR plus MCPA amine with any wetter, crop oil concentrates or blended oil/surfactant adjuvants (see compatibility section).

DO NOT tank mix MCPA LVE with Ecopar Herbicide.

DO NOT tank mix Ecopar Herbicide plus MCPA amine treatments with selective grass herbicides.

DO NOT apply the tank mix of ECOPAR plus MCPA amine before the two leaf crop stage.

DO NOT apply by aircraft.

DO NOT apply if rain is expected within 6 hours of application.

DO NOT apply to weeds suffering from stress caused by conditions such as frost, drought or soil water logging.

DO NOT apply where the slope exceeds 4%.

SPRAY DRIFT RESTRAINTS

DO NOT apply with spray droplets smaller than a **MEDIUM** spray droplet size category according to nozzle manufacturer specifications that refer to the ASAE S572 Standard or the BCPC Guideline.

DO NOT apply when wind speed is less than 3 or more than 20 kilometres per hour, as measured at the application site.

DO NOT apply during surface temperature inversion conditions at the application site. Users of this product **MUST** make an accurate written record of the details of each spray application within 24 hours following application, and must **KEEP** this record for at least 2 years. The spray application details that must be recorded are: 1 date with start and finish times of application 2 location address and paddock(s) sprayed 3 full name of this product 4 amount of product used per hectare and number of hectares applied to 5 crop or situation and weed or pest 6 wind speed and direction during application 7 air temperature and relative humidity during application 8 nozzle brand, type, spray angle, nozzle capacity and spray system pressure measured during application 9 name and address of person applying this product. (Additional record details may be required by the state or territory where this product is used.)

MANDATORY NO-SPRAY ZONES

DO NOT apply if there are sensitive crops, gardens, landscaping vegetation, protected native vegetation or protected animal habitat within 5 metres downwind from the application area. **DO NOT** apply if there are aquatic and wetland areas including aquacultural ponds, surface streams and rivers within 60 metres downwind from the application area.

Table 1 Wheat, barley, oats, triticale

Crop	Weeds Controlled	Rate/Ha	Critical Comments
Wheat, barley, oats, triticale	Wild radish (<i>Raphanus raphanistrum</i>)	300 to 800 mL plus 330mL Agroxone® 750 (or 500 mL of a 500g/L amine formulation of MCPA)	Apply as a post-emergence treatment to actively growing weeds up to the 6 leaf stage and when the crop is between 2 leaves and stem elongation (Zadoks 12 to 29). Do not apply after Zadoks 29 (end of tillering). Use the higher rates on larger weeds or dense infestations. The 400 mL/ha Ecopar plus 330 mL/ha Agroxone 750 rate is the maximum rate when applied at the 2 leaf stage of the crop. As the crop grows, higher rates of Ecopar plus Agroxone 750 can be used. Refer to Agroxone 750 label for higher recommended rates of MCPA amine in cereals.
	Bedstraw (<i>Galium tricoratum</i>), Bifora (<i>Bifora testiculata</i>), Capeweed (<i>Arctotheca calendula</i>), Indian hedge mustard (<i>Sisymbrium orientale</i>), Long storks bill (<i>Erodium botrys</i>), Prickly lettuce (<i>Lactuca serriola</i>), Volunteer canola (<i>Brassica napus</i>), Volunteer lupin (<i>Lupinus</i> sp), Wild turnip (<i>Brassica tournefortii</i>)	400 to 800 mL plus 330mL Agroxone® 750 (or 500 mL of a 500 g/L amine formulation of MCPA)	Under favourable growing conditions some weed regrowth may occur. A follow up application of a suitable herbicide e.g., 2,4-D amine, may be required as part of a good weed management strategy.
Wheat, barley, triticale	Any of the above weeds plus any of the following: Chickweed (<i>Stellaria media</i>), Clover Subterranean (<i>Trifolium subterraneanum</i>), Common sowthistle (<i>Sonchus oleraceus</i>), Dead nettle (<i>Lamium amplexicale</i>), Dense flower fumitory (<i>Fumaria densiflora</i>), Medic (<i>Medicago</i> spp), Patterson's curse (<i>Echium plantagineum</i>), Smallflower fumitory (<i>Fumaria parviflora</i>), Sorrel (<i>Rumex acetocella</i>), Soursob (<i>Oxalis pes-capre</i>), Spiny emex (<i>Emex australis</i>), Stagger weed (<i>Stachys arvensis</i>), Turnip weed (<i>Rapistrum rugosum</i>), Volunteer faba beans (<i>Vicia faba</i>), Volunteer chickpeas (<i>Cicer arietum</i>), Wireweed (<i>Polygonum arviculare</i>)	400mL plus 330mL Agroxone® 750 (or 500mL of a 500 g/L amine formulation of MCPA) plus 5g Esteem® (metsulfuron methyl 600g/kg)	As above plus: Do NOT add a surfactant to this tank-mix. Wireweed: apply before the 4-leaf stage. Do NOT use if undersown legumes are present. CAUTION: Observe minimum re-cropping intervals on labels of Esteem (metsulfuron methyl 600g/kg). This 3-way tank mix is not required if these weeds only are present.

Table 2 Pastures – including:

- various legume pasture species (newly sown, self sown or established);
- pasture legume species under-sown in cereal crops;
- mixed grass/legume pastures (newly sown, self sown or established)

Crop	Weeds Controlled	Rate/Ha	Critical Comments
Pastures Arrowleaf, Balansa, Gland, Persian, Red and White clovers, Subterranean clovers, Barrel, Gamma and Burr medics. Refer to the Pasture Safety section of the label for information on specific varieties.	Bedstraw (<i>Galium tricornutum</i>), Bifora (<i>Bifora testiculata</i>), Capeweed (<i>Arctotheca calendula</i>), Common storksbill (<i>Erodium cicutarium</i>), Indian hedge mustard (<i>Sisymbrium orientale</i>), Long storks bill (<i>Erodium botrys</i>), Musky storksbill (<i>Erodium moschatum</i>), Prickly lettuce (<i>Lactuca serriola</i>), Shepherd's purse (<i>Capsella bursa-pastoris</i>) Volunteer canola (<i>Brassica napus</i>), Volunteer lupin (<i>Lupinus</i> sp), Wild radish (<i>Raphanus raphanistrum</i>) Wild turnip (<i>Brassica tournefortii</i>)	400 to 500 mL plus 330 mL Agroxone 750 (or 500 mL of a 500 g/L amine formulation of MCPA)	Apply to actively growing weeds up to the 6 leaf stage and not more than 8 cm in diameter. Typically less than 8 weeks old or 8 weeks from the autumn break. Use the higher rates on larger weeds or dense infestations. The 400 mL/ha Ecopar plus 330 mL/ha Agroxone 750 rate is the maximum rate when applied at the 3 trifoliolate leaf stage of seedling pasture species. As the pasture grows, higher rates of Ecopar plus Agroxone 750 can be used. Refer to the spray-graze section of the Agroxone 750 label for higher recommended rates of MCPA amine in pastures. 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.

Table 3 Prior to Sowing or Starting a Fallow

Crop/ Situation	Weeds	Rate/Ha	Critical Comments
Prior to sowing broadacre crops or starting a fallow	Deadnettle (<i>Lamium amplexicaule</i>) Fat hen (<i>Chenopodium album</i>) Marshmallow (<i>Malva parviflora</i>) Prickly lettuce (<i>Lactuca serriola</i>) Storksbill (<i>Erodium</i> spp.) Veronica (<i>Veronica</i> sp.) Wild Radish (<i>Raphanus raphanistrum</i>) Wireweed/Hogweed (<i>Polygonum arviculare</i>) Tree hogweed (<i>Polygonum patulum</i>) Afghan Melon (<i>Citrullus lanatus</i>) Dwarf amaranth (<i>Amaranthus macrocarpus</i>)	100 - 200 mL plus recommended label rate of Raze, or other glyphosate product	Apply as a tank mix with Raze or other glyphosate product. Apply when weeds are actively growing and at the 2-6 leaf growth stage. The higher rate of Ecopar will provide the maximum speed of brownout and control. Visible symptoms of brownout may take from 2-7 days to develop. Addition of Hot-Up Spray Adjuvant at 0.5% v/v may be beneficial when applying Ecopar with a glyphosate herbicide. To ensure uptake of Ecopar, DO NOT sow crops for at least 1 hour after application. Always refer to the appropriate companion product label in case a longer re-crop sowing period is required.

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

WITHHOLDING PERIOD:

HARVEST: NOT REQUIRED WHEN USED AS DIRECTED.

GRAZING (CEREALS): DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 14 DAYS AFTER APPLICATION.

GRAZING (PASTURES): DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 7 DAYS AFTER APPLICATION.

GENERAL INSTRUCTIONS

Ecopar Herbicide is an early post-emergence contact herbicide with rapid foliar uptake. Herbicide effects on susceptible weeds can occur within 1 to 7 days of application. Subsequent germinations will not be controlled.

In wheat, barley, oat, triticale and pastures, Ecopar Herbicide should always be tank mixed with Agroxone 750 (750 g/L MCPA amine) or registered 500 g/L MCPA amine products. The addition of wetters, spray oils or oil/surfactant blends will greatly increase crop/pasture injury without any significant improvement in weed control. When applied prior to sowing broadacre crops or starting a fallow, ECOPAR should always be mixed with Raze or other glyphosate product to improve weed control.

MIXING AND APPLICATION

DO NOT apply with spray droplets smaller than a MEDIUM spray droplet size category according to nozzle manufacturer specifications that refer to the ASAE S572 Standard or the BCPC Guideline.

With MCPA amine:

Add half the required volume of water to spray tank and start agitation. Add the required amount of Agroxone 750 followed by the Ecopar Herbicide. Additional herbicides such as Esteem, Sipgran, Sylon or Volley should be added last if including these in the tank mix. Add the remaining water. Maintain good agitation at all times until spraying is completed. Apply Ecopar Herbicide plus Agroxone 750 (or "mixtures") as a broadcast application. Use conventional boom sprayers with either mechanical or bypass agitation. Spray equipment should be properly calibrated to ensure correct application. Use a spray volume of 70 to 150 litres per hectare. This is particularly important on hard-to-control weeds. Use the higher volume if weed infestation is heavy or the crop cover is dense. The best application conditions are when soil is moist, weather fine and rain unlikely within 6 hours.

With Glyphosate:

Apply by ground application only. Half fill the spray tank with good quality water and begin agitation. While agitating, add the required volume of Ecopar then the required volume of Raze or other glyphosate product, then Hotup if required, followed by the remaining water. Prepare only enough spray solution for immediate use, and do not stand overnight. If tank mixtures are prepared, maintain good agitation and use promptly. The addition of Ecopar to Raze or other glyphosate products increases the rate of brownout and final control of certain weeds when compared to the use of the glyphosate products alone. Refer to the product label for Raze or other glyphosate product and select a rate suitable for the conditions and weed size in fallow situations.

CROP ROTATION RECOMMENDATIONS

Observe minimum re-cropping intervals on Esteem® WDG Selective Herbicide (metsulfuron methyl 600g/kg) label when using tank-mixes with this product. Also observe re-cropping intervals when mixing with any compatible products.

COMPATIBILITY

Ecopar Herbicide is compatible with 500 and 750 g/L amine formulations of MCPA (eg Agroxone 750 or 500). Ecopar plus Agroxone 750 is compatible with Esteem® (metsulfuron-methyl), Sipgran® (triasulfuron), Sylon® 750 SG (clopyralid), Volley® SG (dicamba) and certain trace elements in cereals. Do NOT mix Ecopar Herbicide mixtures with selective grass herbicides as grass weed control will be significantly reduced and excessive crop or pasture injury may occur. Instead, allow a 10 to 14 day interval between spraying Ecopar Herbicide mixtures and grass herbicide applications. Prior to applying Ecopar Herbicide mixtures, clean the spray tank to remove any wetters or adjuvants remaining from previous spray operations otherwise crop injury may result. Ecopar mixtures may be mixed in the spray tank with one of the following insecticides or fungicides: Rover (dimethoate), Alphasip Duo 100 (alpha-cypermethrin), Le-mat (omethoate), Slipstream (propiconazole), Laguna (tebuconazole) and Overture® (epoxiconazole). Ecopar Herbicide is compatible with Raze and other formulations of glyphosate and Hotup adjuvant. Mixtures with all other products should be tested before mixing or applying commercial quantities.

RESISTANT WEEDS WARNING

GROUP	G	HERBICIDE
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Ecopar Herbicide is a member of the phenylpyrazole group of herbicides. Its mode of action is through a process of membrane disruption, which is initiated by the inhibition of the enzyme protoporphyrinogen oxidase. This inhibition interferes with the chlorophyll biosynthetic pathway. For weed resistance management, Ecopar Herbicide is a Group G herbicide. Some naturally occurring weed biotypes resistant to Ecopar Herbicide and other herbicides that inhibit the enzyme protoporphyrinogen oxidase may exist through normal genetic variability in any weed population and increase if these herbicides are used repeatedly. These resistant weeds will not be controlled by Ecopar Herbicide or other herbicides that inhibit the enzyme protoporphyrinogen oxidase. Since the occurrence of resistant weeds is difficult to detect prior to use, Sipcam Pacific Australia Pty Ltd accepts no liability for any losses that may result from the failure of Ecopar Herbicide or other herbicides that inhibit the enzyme protoporphyrinogen oxidase.

CROP SAFETY

Some herbicidal symptoms may appear on wheat, barley or triticale in the form of leaf spotting due to environmental conditions. However, the crop recovers quickly usually within 2-3 weeks of treatment. For pasture species undersown in cereal crops, observe the same recommendations as for pastures. Do not apply metsulfuron methyl (ESTEEM) tank mixes on oats.

PASTURE SAFETY

Ecopar mixed with Agroxone 750 can be used to control broadleaf weeds in newly sown pastures, self-sown pastures and established pastures. The tolerance of clover and certain other pasture species to Ecopar mixtures can vary with variety, soil type, disease, stage of growth and degree of moisture and temperature stress. The pasture should be at least 3 trifoliate leaf stage at spraying, growing well with adequate fertiliser and mite/insect control. Do not apply any later than the early flowering stage of desired pasture species. Ecopar mixtures may result in transient spots, red colouring and suppression of growth, particularly in areas of double spray. Plants will recover given good conditions for spring growth. Pasture yields of more sensitive varieties may be suppressed if there is a dry spring. Frost soon after application may result in higher levels of pasture damage. Ecopar mixtures will not harm seedling or established grasses in pastures. Do not apply any other broadleaf herbicide to pastures in the same season as the Ecopar mixture. For pasture species undersown in cereal crops, observe the same recommendations as for pastures.

Ecopar plus Agroxone 750 (MCPA amine)

Under normal growing conditions, the following varieties have shown acceptable levels of tolerance to Ecopar plus Agroxone 750 applied at 400 to 500 mL/ha plus 330 mL/ha.

Safety to pasture	Pasture	Varieties
Good	Arrowleaf clover (<i>Trifolium vesiculosum</i>) Balansa clover (<i>Trifolium michelianum</i>) Barrell medic (<i>Medicago trunculata</i>) Burr medic (<i>Medicago polymorpha</i>) Gland clover (<i>Trifolium glanduliferum</i>) Gama medic (<i>Medicago rugosa</i>) Persian clover (<i>Trifolium resupinatum</i>) Persian clover (<i>Trifolium resupinatum var majus</i>); Red clover (<i>Trifolium pratense</i>) Subterranean clovers (<i>Trifolium subterraneum</i>)	Zulumax, Zulu; Bolta, Paradana; Caliph, Mogul; Cavalier; Prima; Paraponto; SARDI, Nitro, Turbo, Shaftal; Astred, NZ red; Coolamon, Dalkeith, Dalsa, Gosse, Leura, Napier, Riverina, Siera, Trikkala, Urana.
Intermediate	White clover (<i>Trifolium repens</i>)	Victorian.
Not recommended	French serradella (<i>Ornithopus sativus</i>); Snail medic (<i>Medicago scutallata</i>)	N/A Silver snail.

Tolerance Definitions

Good	Varieties have shown good tolerance to Ecopar mixtures. Poor growing conditions may result in transient spots, red colouring and suppression of growth, particularly in areas of double spray. Plants will recover given good conditions for spring growth.
Intermediate	Ecopar mixtures will result in transient spots, red colouring and suppression of growth, particularly in areas of double spray. Pasture yields may be suppressed if there is a dry spring.
Not recommended	Trials conducted showed relatively low tolerance to the Ecopar mixture on the variety(s) tested.

Pasture varieties not listed should be tested before using Ecopar mixtures over large areas. Consult Sipcam for current information.

SPRAYER CLEAN-OUT

Do not allow the spray solution to dry in the application equipment. After application and before using the sprayer equipment for any other applications, the sprayer must be thoroughly cleaned. Applicators must ensure proper equipment clean-out for any other products mixed with Ecopar Herbicide as provided on the other product label(s). Immediately following application, clean all equipment thoroughly with detergent or a spray tank cleaner and water as described below. Should residues of Ecopar Herbicide remain in inadequately cleaned equipment, they may be released in subsequent applications and cause injury to crops.

1. Drain sprayer tank, hoses and spray boom and thoroughly rinse with clean water the inside of the spray tank, sprayer hoses, boom, and nozzles to remove any sediment or residues.
2. Fill the tank with clean water, add an alkaline detergent or boom cleaner (follow manufacturer's directions for use). Fill tank to capacity and operate the sprayer with agitation for 15 minutes to flush hoses, boom and nozzles.
3. Drain the sprayer tank, lines, and booms. Rinse the tank with clean water and flush through the hoses, boom and nozzles. Remove and clean spray nozzles, tips and screens.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

Do NOT apply under weather conditions or from spraying equipment that may cause drift on to non-target vegetation, wetlands, waterbodies or watercourses. Ecopar Herbicide does not provide residual activity, therefore no crop rotational restrictions apply. However, when tank-mixing with other products, including Esteem[®] WDG or with Sylon[®] 750 SG Herbicide, observe warnings and recommendations on the labels of such products.

PROTECTION OF LIVESTOCK

Certain plants such as Caltrop, Capeweed, Paterson's Curse and Variegated Thistle may be naturally toxic to stock when eaten in large quantities under certain conditions. Where plants are known to be toxic, grazing should be delayed until complete browning of treated plants has occurred. Do not graze horses or pigs on Paterson's Curse.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Very toxic to aquatic life. Do NOT contaminate wetlands or watercourses with this product or used container.

STORAGE AND DISPOSAL

Store in the closed, original container in a cool, well ventilated area. Do not store for prolonged periods in direct sunlight. Triple 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 deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots, in compliance with relevant local, state or territory government regulations. Do not burn empty containers or product.

Refillable containers

Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Telephone 131 126 Australia-wide.

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