

**KEEP OUT OF REACH OF CHILDREN
READ THE LABEL COMPLETELY BEFORE MIXING OR APPLYING**

ETHOKEN 500 SC

HERBICIDE

**ACTIVE INGREDIENT: 500 g/litre ETHOFUMESATE in the form
of a suspension concentrate.**

GROUP 15 HERBICIDE

For Barley Grass control in pasture (grass) and weed control
in turf Ryegrass, Fodder Beet and Red Beet.
Also a post-emergence herbicide for used on bulb onion crops.



Registered pursuant to the ACVM Act 1997, No. P009348
See www.foodsafety.govt.nz for registration conditions
Approved pursuant to the HSNO Act 1996, Approval No. HSR000826
See www.epa.govt.nz for approval controls

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Registrant:
Kenso Corporation (M) Sdn Bhd
Lot 29, Jalan Sungai Pinang 5/4, Taman Perindustrian Pulau
Indah, 42920 Pelabuhan Klang, Selangor, Malaysia.

NZ Agent:
Kenso NZ Limited
2 Bond Crescent, Forrest Hill, Auckland 0620 New Zealand.
Ph: 0800 536 766

ETHOKEN 500 SC HERBICIDE

HAZARD CLASSIFICATION

Hazardous to soil organisms, Hazardous to the aquatic environment chronic Category 2

WARNING

Toxic to aquatic organisms with long-lasting effects. Very toxic in the soil environment.

PERSONNEL QUALIFICATION & EXPERIENCE

This product must be under the control of an appropriately trained and experienced person during storage, use and disposal. For guidance refer to the requirements for class 6 and 9 substances of the Health and Safety at Work (Hazardous Substances) Regulations 2017 part 4.5 and the Hazardous Substances (Hazardous Property Controls) Notice 2017 Part 4 Subpart C.

HANDLING PRECAUTIONS

PERSONAL PROTECTION

Avoid skin or eye contact and inhalation of spray mist. When mixing or applying wear chemical resistant: coveralls, eye protection, gloves and footwear. Do not eat, drink or smoke while using. Remove protective clothing and wash hands and face thoroughly before meals and after work.

STORAGE

Store in original container tightly closed and in a locked, dry, cool area away from animal and human foodstuffs, seeds and fertilisers. Store in accordance with NZS 8409 Management of Agrichemicals. Stores containing 100 litres are subject to secondary containment and signage and more than 100 litres require emergency response plans.

DISPOSAL

Triple rinse empty container and add residue to spray tank. Recycle empty container through Agrecovery (0800 247 326, www.agrecovery.co.nz). Otherwise, submit empty, triple rinsed containers to a local authority waste receival facility. DO NOT reuse this container for any other purpose.

SPILLAGE

When dealing with spills wear personal protective clothing and equipment as described in the PERSONAL PROTECTION section. Contain the spill by damming, recover spilt product by absorbing with sand, soil or clays or an inert absorbent material then transfer he recovered spilt material to a properly labelled drum. Deal with all spillages immediately. If contamination of drains, streams, watercourses, etc is unavoidable, immediately contact the local

water authority.

BEWARE: Apply this product carefully. Spray drift may cause serious damage to other desirable plants.

FIRST AID

If swallowed do NOT induce vomiting. For advice, contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately.

If skin contact occurs, remove contaminated clothing and flush skin with running water. If irritation occurs, seek medical advice. If splashed in eyes, wash out immediately with water. If irritation persists, get medical advice. If inhaled, move the victim to fresh air immediately.

SAFETY DATA SHEET

A Safety Data Sheet is available from the Kenso NZ website: www.kenso.co.nz

CONDITIONS OF SALE

Kenso Corporation (M) Sdn. Bhd. will not accept any responsibility whatsoever and howsoever arising and whether for consequential loss or otherwise in connection with the supply of these goods other than responsibility for the merchantable quality of the goods and such responsibilities mandatorily imposed by Statutes applicable to the sale or supply of these goods. To the extent allowed by such Statutes the liability of Kenso Corporation (M) Sdn. Bhd. is limited to the replacement of the goods or (at the option of Kenso Corporation (M) Sdn. Bhd.) the refund of the price paid and where possible sufficient part of the goods to enable proper examination being returned to Kenso Corporation (M) Sdn. Bhd. within thirty days of delivery.



EMERGENCY RESPONSE
Ring 0800 CHEMCALL, or
0800 243 622 (24 hours)

Product of China



UN NO: 3082

ENVIRONMENTALLY HAZARDOUS
SUBSTANCE, LIQUID, N.O.S.

(CONTAINS ETHOFUMESATE)

PACKING GROUP III, HAZCHEM 3Z

CONTAINS SPILLAGE, CLASS 9



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Fire Service. For specialist advice in
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labelled drum. Deal with all spillages immediately. If contamination of drains, streams, watercourses, etc is unavoidable, immediately contact the local water authority.

BEWARE: Apply this product carefully. Spray drift may cause serious damage to other desirable plants.

Equipment:

Thorough and even application is essential. Apply only through properly calibrated boom spraying or handgun equipment. Do not use impact nozzles or broadcast nozzle cluster equipment.

Non-reinforced PVC tubing may soften or swell after prolonged contact. Thoroughly clean sprayer after use with water and detergent. Spray out completely and rinse twice with clean water. Open tank lid and remove nozzles to allow access to air.

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Batch No. :

Date of Manufacture :

GENERAL INFORMATION

Ethoken 500 SC Herbicide is an early post-emergence herbicide for the control of Barley Grass in pasture (grass), grass weeds in turf Ryegrass and for pre- and early post-emergence weed control in Fodder Beet and Red Beet. Ethoken 500 SC Herbicide is a post-emergence herbicide for use on bulb onion crops. It provides good suppression of a number of weeds, including black nightshade, fathen, fumitory, hairy nightshade, spurrey, twincrest, white clover and wireweed. This suppression effect enhances overall weed control when used in a programme with other selective herbicides such as ioxynil and methabenzthiazuron. Target weeds should be no more than the 2 leaf stage for optimum efficacy.

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

DIRECTIONS FOR USE

Mixing:

Use only clean water which is above 5°C temperature. Do not add surfactants. Add the required amount to the partly-filled spray tank with the agitator operating. Complete filling tank with water and use immediately, maintaining agitation until spraying is complete.

RECOMMENDATIONS:

Use	Rate	Remarks
Barley grass control in pasture (grass)	Boom application: 4 litres/ha in 200-400 litres of water Hand gun application: 400mL/100 litres of water	For optimum results treat Barley Grass growing in moist conditions at an early growth stage but after the main germination has occurred. The normal timing is between April and July following Autumn rain, but this will vary by season and region. Before treatment remove any debris (e.g. leaves, rank sward) and harrow large dung pats. Graze to 3-5cm in height and allow to freshen up. Complete coverage of Barley Grass is essential. Ethoken 500 SC Herbicide will not control Barley Grass in the green seedhead stage. Do not apply after July. Raw organic matter on stock camps will reduce efficiency and follow up treatments may be required. NB In areas of dense Barley Grass where the sward contains less than 5% Ryegrass, Ryegrass seed should be sown as soon as possible after spraying.
Grass weed control in turf Ryegrass	Boom application: 4 litres/ha in 200-400 litres of water Hand gun application: 400mL/100 litres of water	Use only on turf Ryegrass. To control Annual poa follow the recommendation for Barley Grass control in pasture (grass) above. Do not mow treated area for 4-5 days after spraying. To control summer germinating annual grasses apply treatment just prior to expected germination of weeds – usually September-October. A repeat treatment may be required after 6-8 weeks. Over-sow with Ryegrass following treatment of densely weed infested areas.
Red Beet (Beetroot) Fodder Beet	3-4 litres/ha in 200-300 litres of water 2 litres/ha in 200-300 litres of water	Pre-sowing or pre-emergence: Apply before drilling or as soon as possible after drilling but before crop or weed emergence. The seedbed should be firm, fine and moist. If moisture is limited, shallow (2-5 cm) incorporation of pre-sowing treatment may be preferred. Use the highest rate where moisture is limited or the seedbed is less than ideal.

Post-emergence: For Red Beet (Beetroot) use 4 litres/ha when weeds are from cotyledon to 2 true leaf stage. For Fodder Beet make 2 applications at 2 litres/ha in mixture with Fender 320 EC Herbicide at 1.5 litres/ha after the crops has 2 true leaves fully developed. Apply the first application when weeds are from cotyledon to 2 true leaf stage and the second 10-14 days later.

Notes

1. Ethoken 500 SC Herbicide can be applied post-emergence following pre-emergence treatment with other herbicides.
2. Fender 320 EC Herbicide may be applied post-emergence to crops previously treated with Ethoken 500 SC Herbicide pre-emergence.
3. Any crop may be sown 5 months after a single application of Ethoken 500 SC Herbicide at recommended rates. Ploughing to a minimum depth of 15cm should precede seedbed preparation for following crops.

SUPPRESSION:

Use	Rate	Remarks
Onions	0.9-1.2 litres/ha in 200-300 litres of water	Apply Ethoken 500 SC Herbicide to onions from 1st true leaf onwards in 200-300 litres of water/ha at 7-14 day intervals. Use the higher rate if weeds are past the first true leaf stage at the time of application. Apply a maximum of three applications per crop, followed by an Ionix 250 EC Herbicide/ methabenzthiazuron regime, used in accordance with their label claims. DO NOT add a wetting agent.

Withholding Periods

Pasture (grass) – 28 days. Do not graze stock on treated areas for 28 days after spraying.

Fodder Beet – 56 days. Do not graze stock on treated areas for 56 days after spraying.

Bulb onions – 90 days.

Plant back of following crops:

Residues may persist in the treated soil. Unless a test sowing of an intended follow up crop has demonstrated no effect, allow 150 days from the last use of product before sowing or planting into a well cultivated seed bed.

Weed susceptibility:

Crop	Weeds		
	Susceptible	Suppression	Suppression
Pasture (Grass) Turf Ryegrass Red beet (Beetroot) Fodder beet	Annual poa Chickweed Cleavers Fumitory Redroot Sow thistle Spurrey Summer grass Wild portulaca	Barnyard grass Black nightshade Fathen Speedwells Wild oats Willow weed Wireweed Annual nettle# Cornbind# Shepherd's purse#	Dead nettles Galinsoga Groundsel Perennial weeds Ryegrasses Wild radish
Onions	N/A	Black nightshade Fathen Fumitory Hairy nightshade Spurrey Twincrest White clover Wireweed	Chickweed, Pearlwort, most rhizomatous weeds and weeds emerging from root fragments (particularly large fragments)

These weeds controlled pre-emergence only

Additional notes:

Ethoken 500 SC Herbicide is active pre-emergence through absorption by the emerging shoots of grass weeds and by the roots of broad-leaved weeds soon after germination. Lack of soil moisture and the presence of raw organic matter will reduce or prevent pre-emergence activity.

Post-emergence treatments are initially absorbed through the foliage and later via the root. Root absorption is also affected by moisture and organic matter. Ethoken 500 SC Herbicide is very selective in ryegrass spp. in pasture (grass) and in turf but will suppress clovers. Areas where clover production is important should not be treated with Ethoken 500 SC Herbicide as temporary suppression can be expected.

Ethoken 500 SC Herbicide is also selective in fodder beet and red beet pre- and post-emergence. Post-emergence treatment may cause some distortion to crop foliage particularly early in the season, but this does not adversely affect yield. Do not spray when rain is imminent or falling. Slight rain following or heavy dew prior to spraying will not reduce the effect providing it does not wash the chemical off the foliage. Protect concentrate from frost.

Avoid spray or spray drift contacting desirable plants or falling within their root zones.

Avoid spray overlapping during application.

RESISTANCE MANAGEMENT

GROUP 15 HERBICIDE

Ethoken 500 SC Herbicide contains ethofumesate, a Group 15 Herbicide from the benzofurane chemical group with the inhibition of lipid synthesis – not an ACCase inhibition mode of action. To prevent or delay development of resistant biotypes, use Ethoken 500 SC Herbicide in tank mixture or rotation with herbicides of a different mode of action against the weed. Consult <https://resistance.nzpps.org/> for alternative modes of action and details of resistance management strategies (if any) for the crops listed on the label.