

General: Ethosin 500 SC is active pre-emergence through absorption by the emerging shoots of grass weeds and by the roots of broadleaved 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 foliage and later via the root. Root absorption is also affected by moisture and organic matter. Ethosin 500 SC is also selective to fodder beet and red beet (beetroot) pre and post emergence. Post emergence treatment may cause some distortion to crop foliage particularly early in the season, however 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.

WEED SUSCEPTIBILITY

Susceptible	Intermediate	Resistant
Redroot (Prince of Wales Feather) Fumitory Cleavers Chickweed Spurrey Wild Portulaca Summer Grass Annual Poa Sow Thistle Barley Grass	Fathen Black Nightshade Wireweed Willow Weed (Redshank) Speedwells Barnyard Grass Wild Oats • Cornbind • Annual Nettle • Shepherds Purse	Wild Radish Dead Nettles Galinsoga Ryegrasses Groundsel Perennial weeds

• These weeds controlled pre-emergence only.

Directions for Use:

MIXING: INVERT CONTAINER SEVERAL TIMES AND SHAKE THOROUGHLY FOR SEVERAL MINUTES BEFORE USE. 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 agitation operating. Complete filling tank and use immediately, maintaining agitation until spraying is complete.

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.

Use	Rate	Remarks
Red Beet (Beetroot)	3-4 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 (2-5cm) incorporation of pre-sowing treatment may be preferred. Use the highest rate where moisture is limited or the seedbed is less than ideal.
Fodder Beet	2 litres/ha in 200-300 litres of water	

Post emergence: For red beet (beetroot) use 4 litres/ha on weeds from cotyledon to 2 true leaf stage. For fodder beet make 2 applications at 2 litres/ha in mixture with Beetup Compact at 3 litres/ha after the crop has 2 true leaves fully developed. The first application when weeds are from cotyledon to 2 true leaf stage and the second 10-14 days later.

Notes:

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

IT IS AN OFFENCE for users of this product to cause residues exceeding the relevant MRL in the Food Notice: Maximum Residue Levels for Agricultural Compounds.

Withholding periods:

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



UN 3082. Class: 9, Packaging group: III. ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ETHOFUMESATE). Do not carry this product on a passenger service vehicle.

WARNING
KEEP OUT OF REACH OF CHILDREN

Ethosin® 500SC

For weed control in fodder beet and red beet.

Active Ingredient: contains 500 g/litre ethofumesate in the form of a suspension concentrate. Also contains ethylene glycol.

GROUP N HERBICIDE

Registered pursuant to the ACVM Act 1997 No. P9366
See www.foodsafety.govt.nz for registration conditions

In a transport emergency dial 111, Police or Fire Brigade.
For specialist advice in an emergency only call:
0800 734 607 (24 hours).



Net Contents: 20 litres



READ LABEL BEFORE USE. SHAKE WELL BEFORE USE



Approved under the HSN0 Act 1996, HSR101238. See www.epa.govt.nz for controls.

HSNO Classifications: 6.3B, 6.4A, 6.9B, 9.1B, 9.2A

Qualified Person/Contractor: Required.

WARNING: Causes mild skin irritation. Causes serious eye irritation. May cause damage to organs through single, prolonged or repeated exposure. Toxic to aquatic life with long lasting effects. Very toxic to the soil environment.

SAFETY DIRECTIONS: Read label before use. Do not breathe fumes, vapours or spray. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear protective clothing. Collect Spillage. Wear protective gloves, clothing, eye and face protection. Wash concentrate from skin or eyes immediately. Avoid contamination of seeds, fertilisers and other pesticides. Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area.

APPLICATION CONTROLS:

- Ethosin 500SC must not be applied into or onto water.
- Ethosin 500SC must be applied using ground-based methods only.
- The maximum application rate of this substance is 0.31 kg of a.i./ha.
- The maximum application frequency and minimum interval period of this substance must not be more than three per crop cycle per calendar year and a minimum interval of 5 days.
- This substance must only be applied on fodder beet and red beet (sugar beet and mangolds).
- No person may apply the substance in a manner that results in an adverse effect to non-target vegetation beyond the boundary of the subject property.

RE-ENTRY INTERVAL (REI): If re-entry work is required within 24 hours of application, personal protective equipment must be worn. Public access must not occur during this period.

IMPURITIES: A maximum limit of 0.1 mg/kg is set for the toxicologically relevant impurities ethyl methane sulfonate (EMS) and iso-butyl methane sulfonate (iBMS) in the active ingredient ethofumesate used to manufacture this substance.

STORAGE: Store locked up in the original, unopened container in a cool, dry place, out of direct sunlight and away from stockfeed or foodstuffs. As a Class 9 Substance with Ecotoxicity Classifications, storage must be carried out in such a manner as to prevent contamination of waterways. It is recommended that The New Zealand Standard for the Management of Agrichemicals (NZS8409) is followed. See Safety Data Sheet for further information.

CONTAINER DISPOSAL: Triple rinse container and add residue to spray tank. Return empty container to an AgRecovery depot for disposal.



FIRST AID: Get medical advice/attention if you feel unwell. If skin irritation occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

RESISTANCE MANAGEMENT: Ethosin 500SC is a **GROUP N HERBICIDE** with the inhibition of lipid synthesis mode of action. Naturally occurring weed biotypes resistant to ethofumesate become more prevalent after many years of continuous use. To delay development of or control resistant weeds, use Ethosin 500SC in tank mixture with an appropriate herbicide from a different chemical group, or alternate with herbicides from alternative chemical groups. **SPILLS:** Wear appropriate protective clothing and prevent material from entering waterways. Absorb spills with inert material and place in waste containers. Wash area with water and absorb with further inert material. Dispose of waste safely (such as to a suitable landfill).

Notice to Buyer: Careful tests have proved that the product is suitable for the recommended purposes when used in accordance with our instructions. However, since storage and use of product are beyond our control, we do not therefore accept any liability for damage or loss of efficacy which may result from the use of this product, whether used in accordance with the directions or not. We are liable for a consistent quality of the product, but the risk of its storage and use is not borne by us.

Batch number and manufacturing date: See on packaging.

Registered to and Distributed by: Adria New Zealand Limited.

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