



Keeper[®] 500 FL

For use post-crop emergence in mixture with complementary herbicides to control certain broad-leaved weeds, black-grass and annual meadow-grass in sugar beet, fodder beet, mangels and red beet.

Contains 500 g per litre (43.5% w/w) ethofumesate as a suspension concentrate.

Manufacturer:

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FOR USE ONLY AS AN AGRICULTURAL HERBICIDE

Approval Holder:

Barclay Chemicals (R&D) Ltd.
Contact details as above.

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PROTECT FROM FROST

RISK AND SAFETY INFORMATION

Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

Contains Rhodorsil 432, may cause allergic reaction.

Keep out of reach of children.

Keep away from food, drink and animal feeding stuffs.

If swallowed, seek medical advice immediately and show this container or label.

Wear suitable protective gloves during mixing and loading.

Do not contaminate ponds, waterways or ditches with chemical or used container.

To avoid risks to man and the environment, comply with the instructions for use

Safety data sheet available for professional user on request



PCS No: 02338

In case of emergency contact the Poisons Information Centre Tel: +353 1 8092566 or +353 1 8379964

DIRECTIONS FOR USE			
Crops:	Maximum individual dose of product	Maximum total dose of product	Latest time of application:
Sugar beet, Fodder beet, Red beet, Mangels	2 l/ha	2 l/ha	before the beet leaves meet between the rows

The total dose applied to any area of land must not exceed 1 kg ethofumesate per ha (2 litres product per ha) in any 3 year period. CAUTION: adverse weather or soil or cultural conditions may lead to unsatisfactory results and/or a check to crop growth from which recovery may not be complete.

TIME OF APPLICATION

Spray from when the smallest beets have at least 2 full true leaves and the 3rd and 4th true leaves are apparent.

RATE OF APPLICATION

Barclay Keeper 500 FL at 2 l/ha in 240 l/ha water.

If further weed germination occurs after application, an alternative approved treatment must be used.

APPLICATION (BCPC definitions)

Apply by conventional powered hydraulic sprayer in 240 l/ha water as a MEDIUM spray. Avoid spray drift.

CROP AND WEATHER CONDITIONS

Barclay Keeper 500 FL and mixtures should only be applied to vigorous crops which are not subject to stress (see Stress Factors). Wide variations between daytime and night-time temperatures at or around the time of application may subject young beet plants to extra stresses causing a check to growth from which recovery may not be complete. Do not apply to wet foliage or if rain is likely within 4 hours or if frost is forecast.

SOILS AND SOIL CONDITIONS

All soil types may be treated. Residual activity of the Barclay Keeper 500 FL component may be reduced on soils over 5% organic matter. A firm, fine seedbed is essential. As with all soil acting residual herbicides, adequate soil moisture is necessary for optimum residual activity.

COMPATIBILITY

Barclay Keeper 500 FL is compatible in tank-mix with the Barclay range of trace elements and the under mentioned approved formulations. No other treatment should be applied for 5 days before or after an application of Barclay Keeper 500 FL, except when a tank-mix is to be applied after post-emergence phenmedipham alone. Do not mix Barclay Keeper 500 FL with insecticides. When tank-mixing Barclay Keeper 500 FL with a partner, the recommendations and conditions of the partner product must be strictly observed, together with the recommendations and conditions of this label.

phenmedipham PCS 00232
metamitron * PCS 01327

* for optimum efficacy with Barclay Keeper 500 FL, adjuvant oil must be added as per the recommendations of the partner product label.

STRESS FACTORS

When a crop is suffering from any stress factor, such as that induced by herbicides, trace element deficiency, soil acidity, wind or frost, high light intensity, high temperatures and drought, pest or disease attack, application may result in crop check leading to loss of yield. More than one of these factors may be acting upon the beet plants at any one time, any of which acting individually may appear to be of little consequence. However their combined effect may be important and an application may cause a check to growth from which recovery may not be complete and yield loss might ensue.

SAFETY TO CROPS

No effect on the crop should be observed if the Directions for Use are followed. Occasional plants may be found with leaf malformations after treatment with Barclay Keeper 500 FL, but these will not result in yield loss. As with other herbicide treatments, greater susceptibility to frost or pest damage may be apparent.

WEED CONTROL IN BEET CROPS			
Black-bindweed	4	Nightshade, black	checked to 1 leaf
Black-grass	checked to 3 leaves	Nipplewort	2
Blugloss	2	Orache, common	4
Charlock	6	Pansy, field	4
Chickweed, common	up to 25cm **	Penny-cress, field	4
Cleavers	up to 5 cm (2") **	Persicaria, pale	2
Dead-nettle, red	2	Pimpernel, scarlet	6
Dead-nettle	2	Poppy, common	up to 10 cm (4") **
Fat-hen	6	Radish, wild	6
Field-speedwell, common	6	Redshank	2
Fumitory, common	4	Shepherd's-purse	up to 10 cm (4") **
Groundsel	4	Speedwell, ivy-leaved	4
Hemp-nettle, common	6	Spurrey, corn	up to 5 cm (2") **
Knotgrass	2	Wild-oat	checked to 3 leaves
Marigold, corn	2		
Mayweed, scentless	checked to 2.5cm (1") **		
Meadow-grass, annual	4	Susceptible at up to indicated number of true-leaves or as stated.** across or high.	
Nettle, small	2		

Strains of some annual grasses, e.g. black-grass, wild-oat and Italian rye-grass, have developed resistance to herbicides which may lead to poor control. A strategy for preventing and managing such resistance should be adopted.

MIXING AND USE

Half-fill the spray tank with clean water and start the re-circulation system. Add the required quantity of Barclay Keeper 500 FL to the tank. Fill the spray tank with water to the required level. Maintain re-circulation until the tank is sprayed out.

RINSE CONTAINER THOROUGHLY by using an integrated pressure rinsing device or manually rinsing three times. Add washings to sprayer at time of filling and dispose of safely.

SUCCEEDING CROPS

Any crop may be drilled or planted 3 months after application of Barclay Keeper provided that the land is first mould-board ploughed at least 15 cm deep. Following the failure of a beet or grass crop for any reason, only sugar beet, fodder beet, mangels or red beet may be sown within 3 months of treatment. Due allowance must also be made for other products used in the herbicide programme.

CARE OF SPRAYER

After each days use, wash out thoroughly with water and wetting agent. Remove spray jets and drain all parts of the system and allow access of air.

FIRST AID

Eyes: flush immediately with plenty of clean water for at least 15 minutes. Seek medical attention if irritation occurs and show this label.

Skin: take off all contaminated clothing. Wash underlying skin immediately with plenty of water. Seek medical attention if irritation occurs and show this label.

Inhalation: remove to fresh air and keep at rest. Seek medical attention if inhalation is suspected and show this label.

Ingestion: do not induce vomiting; keep at rest, seek immediate medical attention and show this label.

DISPOSAL

Product: dispose of via an approved waste disposal contractor.

Containers: dispose of triple rinsed empty containers via the local authority or an approved waste disposal contractor.