

TWIN[®]

MAPP 13998

A residual and contact post-emergence herbicide for use on sugar beet, fodder beet and mangels.

An emulsifiable concentrate formulation containing 97 g/l (10.0% w/w) phenmedipham and 94 g/l (9.7% w/w) ethofumesate. Contains acetophenone.



Danger

**May be fatal if swallowed and enters airways.
Harmful if inhaled.**

Toxic to aquatic life with long lasting effects.

Keep out of reach of children.

Avoid breathing vapours/spray.

Do NOT induce vomiting.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Dispose of contents/container to a licensed hazardous waste disposal contractor or collection site except for empty, clean containers which can be disposed of as non-hazardous waste.

To avoid risks to human health and the environment, comply with the instructions for use.

T2797/A09

FR R3.0.5 OCT18

10 litres e

To access the Safety Data Sheet for this product scan the QR code or use the weblink: <https://bit.ly/2NJ8452>
- Alternatively, contact your supplier.



Scan for
Safety Data
Sheet

ADAMA

TWIN®

MAPP 13998

PROTECT FROM FROST

DIRECTIONS FOR USE:

full instructions in this leaflet.

Batch No.: see packaging

Adama Agricultural Solutions UK Ltd

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For advice on medical emergencies, fires or major spills telephone the National Chemical Emergency Centre on 01865 407333

The (COSHH) Control of Substances Hazardous to Health Regulations may apply to the use of this product at work.

SAFETY PRECAUTIONS

Operator Protection

WASH ALL PROTECTIVE CLOTHING thoroughly after use, especially the insides of gloves.

WASH CONCENTRATE from skin or eyes immediately.

WASH HANDS AND EXPOSED SKIN before eating, drinking or smoking, and after work.

DO NOT BREATHE SPRAY.

Environmental Protection

Do not contaminate water with the product or its container. Do not clean application equipment near surface water. Avoid contamination via drains from farmyards and roads.

Storage and Disposal

KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place.

WASH OUT CONTAINER THOROUGHLY, empty washings into spray tank and dispose of safely.

DO NOT RE-USE CONTAINER for any purpose.

IMPORTANT INFORMATION

FOR PROFESSIONAL USE ONLY AS AN AGRICULTURAL HERBICIDE

Crops	Maximum individual dose (litres product/ha)	Maximum total dose (litres product/ha/year)	Latest time of application
Sugar beet, fodder beet, mangels	3.0	9.0	Before crop leaves meet between the rows

Other specific restrictions:

The container must not be re-used for any purpose.

The maximum total dose must not exceed 1.0 kg ethofumesate per hectare in any three year period.

READ THE LABEL BEFORE USE. USING THIS PRODUCT IN A MANNER THAT IS INCONSISTENT WITH THE LABEL MAY BE AN OFFENCE. FOLLOW THE CODE OF PRACTICE FOR USING PLANT PROTECTION PRODUCTS.

This leaflet is part of the approved label.

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IMPORTANT: This information is approved as part of the Product Label. All instructions within this section must be read carefully in order to obtain safe and successful use of this product.

RESTRICTIONS AND WARNINGS

Do not apply to crops suffering from stress due to lime or trace element deficiency, drought, frost or pest damage.

Do not apply to crops suffering from damage due to an earlier herbicide treatment.

Do not apply when temperatures exceed 21°C or in strong sunlight. If treatment is essential, delay spraying until the temperature falls and light intensity reduces.

Do not apply TWIN® with any insecticide or adjuvant.

An interval of at least 7 days should elapse before or after application of broad-leaved herbicides or graminicides. An interval of at least 5 days must elapse between applications of TWIN.

Crops should not be re-entered until spray residues are dry.

WEED CONTROL

For best results the largest weeds should not be beyond the fully expanded cotyledon stage at spraying. Occasional larger weeds will usually be controlled by a full series of TWIN sprays, provided that at the first treatment they are not larger than the maximum sizes shown below.

On soils containing more than 10% organic matter, the residual activity of TWIN may be reduced.

Weeds killed up to 6 expanded true leaves

Charlock	Field-speedwell, Common	Pimpernel, Scarlet
Fat-hen	Hemp-nettle, Common	Radish, Wild (Runch)

Weeds killed up to 4 expanded true leaves

Black-bindweed	Meadowgrass, Annual	Penny-cress, Field
Fumitory, Common	Orache, Common	Speedwell, Ivy-leaved
Groundsel	Pansy, Field	

Weeds killed up to 2 expanded true leaves

Bugloss	Knotgrass	Nipplewort
Dead-nettle, Henbit	Marigold, Corn	Persicaria, Pale
Dead-nettle, Red	Nettle, Small	Redshank

Other weeds controlled

Chickweed, Common	killed up to 10 cm across or high
Cleavers	killed up to 5 cm across or high
Mayweed	severe check or kill up to 2.5 cm across or high

CROP SPECIFIC INFORMATION

All varieties of sugar beet, fodder beet and mangels may be treated.

Timing

The recommended time of application is at the fully expanded cotyledon stage of the largest weed present. A single application of TWIN will not give season-long control. Subsequent applications should be made as each flush of weeds reaches the cotyledon stage. Susceptible weeds may not be killed by the first treatments but may be checked and then controlled by later applications.

A minimum of 5 days must elapse between treatments.

Rate of Application

A programme of treatments should be applied. The first application should be made at 2.0 L/ha in 80-100 litres of water per ha when the crop is at the fully expanded cotyledon stage. Subsequent applications should be made at 3.0 L/ha in 80-100 litres of water per ha from the two fully expanded true leaf stage of the crop.

Under good growing conditions when weeds are at the cotyledon stage, at least one of the 3.0 L/ha doses may be replaced with a 2.0 L/ha dose to provide useful control of these weeds.

Succeeding crops

Beet crops may be sown at any time following the use of TWIN. Three months must elapse before any other crop is sown, and mould-board ploughing to a depth of 15 cm must precede seedbed preparation.

MIXING AND APPLICATION

Add the required quantity of TWIN to a quarter-filled spray tank with continuous agitation, then add the remaining volume of water. Continue agitation during spraying.

Ensure that all spraying equipment is thoroughly washed out immediately after use. Use a recognised tank cleaner.

Use a FINE spray as defined by the BCPC system. Avoid spray drift.

DISCLAIMER/CONDITIONS OF SUPPLY

The specified properties of our products and the mode of application stated on this label have been established on the basis of research and experience. Products conform to specification at the time of delivery but, as we exercise no control over their subsequent storage, handling, mixing or use or the weather conditions before, during and after application, all of which may affect the performance of the products, no responsibility or liability will be accepted by us or our re-sellers for any failure in performance, damage or injury to person or property whatsoever arising from the storage, handling, application or use of the products. These conditions cannot be varied by our staff or agents whether or not they supervise or assist in or make recommendations concerning the use of such products. We recommend you contact your dealer to request advice on the suitability of this product for any new and/or unusual growing methods or for new varieties not listed on this label.

Marketed by

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