



CHLORMEPHON[®] PRO



ADAMA

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PLANT GROWTH REGULATOR

Soluble concentrate

MAPP 21045

SHAKE WELL BEFORE USE

PROTECT FROM FROST



Ingredients

- Chlormequat 300 g/l (27.2% w/w)
 - Ethephon 150 g/l (13.8% w/w)
- Ethephon (2-chloroethylphosphonic acid) is an anticholinesterase organophosphate. Handle with care.



Crops

A growth regulator for the reduction of lodging in cereals.



Warning

Harmful if swallowed.

Harmful to aquatic life with long lasting effects.

Do not eat, drink or smoke when using the product.

IF SWALLOWED: call a POISON CENTRE or doctor/physician if you feel unwell.

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.



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Scan for Safety Data Sheet

Or use the weblink: <https://bit.ly/3N9HWRV>
Alternatively, contact your supplier.



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SAFETY PRECAUTIONS

Operator protection

This product contains ethephon (2-chloroethylphosphonic acid) an anticholinesterase organophosphorus compound. DO NOT USE if under medical advice NOT to work with such compounds.

Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment:

WEAR SUITABLE PROTECTIVE GLOVES when handling the concentrate or handling contaminated surfaces.

However, engineering controls may replace personal protective equipment if a COSHH assessment shows that they provide an equal or higher standard of protection.

WASH CONCENTRATE and diluted product from skin or eyes immediately.

DO NOT BREATHE SPRAY.

WHEN USING DO NOT EAT, DRINK OR SMOKE.

WASH HANDS AND EXPOSED SKIN before meals and after work.

IF YOU FEEL UNWELL, seek medical advice (show the label where possible).

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. **KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.** **KEEP OUT OF REACH OF CHILDREN.**

DO NOT RE-USE CONTAINER for any purpose.

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

THIS PRODUCT MUST BE SOLD AND USED ONLY IN ENGLAND, SCOTLAND AND WALES.

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

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

IMPORTANT INFORMATION

FOR PROFESSIONAL USE ONLY AS A PLANT GROWTH REGULATOR

Crops	Maximum individual dose (L product/ha)	Maximum total dose (L product/ha/crop)	Latest time of application
Winter wheat	2	2	Before flag leaf ligule just visible
Winter barley	2	2	Before flag leaf ligule just visible
Spring barley	1.5	1.5	Before flag leaf ligule just visible

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.

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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.



CHLORMEPHON® PRO (MAPP 21045) is a soluble concentrate containing 300 g/l (27.2 % w/w) chlormequat and 150 g/l ethephon (13.8 % w/w).

Ethephon (2-chloroethylphosphonic acid) is an anticholinesterase organophosphate. **Handle with care.**

CHLORMEPHON PRO is a growth regulator for the reduction of lodging in cereals.

This leaflet is part of the approved label.

DIRECTIONS FOR USE

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.

CHLORMEPHON PRO shortens and stiffens the straw of winter wheat, winter barley and spring barley by reducing the length of internodes.

RESTRICTIONS OR WARNINGS

Do not apply during periods of cold weather, frost or snow or if cold weather has been forecast.

Do not apply to crops under stress during hot weather.

Do not apply in periods of high temperature (more than 21°C) occurring just before, during or shortly after spraying.

Do not apply to wet foliage or if rain is forecast for that day.

Do not apply to crops under any growing stress such as drought, waterlogging, physical damage, pesticide toxicity, pest or disease attack (particularly take-all), poor nutrition or other disorder until the stresses have been fully relieved.

Do not apply within 10 days of a herbicide treatment.

Do not use on spring-sown winter varieties or late-sown crops.

Straw from treated crops must not be used in the growing of horticultural crops.

CHLORMEPHON PRO must not be used in a programme with other products containing ethephon (2-chloroethylphosphonic acid).

Extreme care must be taken to avoid drift onto neighbouring crops.

Care should be taken to avoid overlap of spray swaths.

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

CROP SPECIFIC INFORMATION

Use CHLORMEPHON PRO as recommended in the table below on crops likely to be at risk to lodging i.e. crops growing under fertile conditions. Treat only vigorous crops, adequately fertilised, growing under good soil and weather conditions. Winter wheat and winter barley will normally have been treated with an approved treatment of chlormequat before the first node.

Cautionary note

Ear emergence may be slightly delayed as a result of straw shortening and some lodging may occur at a late stage. Latent stresses, particularly moisture stress, upon a crop may reduce crop growth and/or lead to secondary tillering. This may be accentuated by CHLORMEPHON PRO.

Seed merchants must be consulted before treating crops intended for seed.

Time of application and rate of use

For best results crops must be actively growing under warm moist conditions.

Crop	Application timing <i>The application timings relate to the specified growth stage being found on the majority of tillers</i>	Dose	Further directions
Winter wheat, Vigorously growing crops not previously treated with growth regulator or where a high risk of severe early lodging still remains.	During stem elongation and before the flag leaf ligule is just visible (GS 30-37).	2.0 L/ha	Apply well before any signs of lodging.
Winter barley Vigorously growing crops not previously treated with growth regulator or where further protection against lodging is required.	During stem elongation and before the flag leaf ligule is just visible (GS 30-37).	2.0 L/ha	Apply well before any signs of lodging.
Spring barley Vigorously growing crops requiring protection against lodging.	During stem elongation and before the flag leaf ligule is just visible (GS 30-37).	1.5 L/ha	Apply well before any signs of lodging.

MIXING AND SPRAYING

Water volume

Apply the recommended dose as a MEDIUM spray (BCPC) in 225-340 litres of water per ha using the highest volume in the densest crops.

Apply via established tramlines to minimise production of green side tillers.

Invert the product container several times and shake thoroughly before pouring.

Part-fill the spray tank with clean water and begin agitation. Mix in the required volume of CHLORMEPHON PRO through the top filter or filling device. Top up the tank with water and keep under agitation until sprayed out. Spray immediately after mixing.

Spray tank cleaning

Thoroughly wash all spraying equipment and measuring equipment with water and a wetting agent using an integrated pressure rinsing device or manually rinsing three times immediately after use.

COMPANY ADVISORY INFORMATION

This section is not part of the Product Label under the Plant Protection Products Regulations and provides additional advice on product use at the discretion of ADAMA Agricultural Solutions UK Ltd.

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.

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