

CLAYTON MEPIQUAT

MAPP 12360

contains 305 g/l (28 % w/w) mepiquat chloride and 155 g/l (14.2 % w/w) 2-chloroethylphosphonic acid in an aqueous solution.

A plant growth regulator for use winter wheat, winter and spring barley, triticale and winter rye



HARMFUL

HARMFUL IF SWALLOWED
RISK OF SERIOUS DAMAGE TO EYES
IRRITATING TO RESPIRATORY SYSTEM

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

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

COMPLIANCE WITH THE FOLLOWING CONDITIONS OF USE AND ALL SAFETY PRECAUTIONS MARKED ♦ IS A LEGAL REQUIREMENT			
FOR USE ONLY AS AN AGRICULTURAL PLANT GROWTH REGULATOR			
Crop	Maximum individual dose of product	Maximum number of applications per crop	Latest time of application
Winter wheat Winter barley Triticale	Either 2 l/ha Or 1.5 l/ha	One One	Before the flag leaf is just visible Winter wheat and triticale: before boots swollen Barley: before first awns visible
Winter rye	2 l/ha	One	Before the flag leaf is just visible
Spring barley	Either 1.5 l/ha Or 1 l/ha	One One	Before the flag leaf is just visible Before first awns visible
Other specific restrictions If adjuvant ADJ 0421 is included in the tank mix, the maximum concentration must not exceed 40 ml adjuvant ADJ 0421 per 100 litres spray solution.			
READ ALL OTHER SAFETY PRECAUTIONS AND DIRECTIONS FOR USE BEFORE USE			

SAFETY PRECAUTIONS

Operator protection

- ❖ 2-chloroethylphosphonic acid is 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 AND FACE PROTECTION (FACESHIELD) when handling the concentrate.
- ❖ WEAR SUITABLE PROTECTIVE GLOVES when handling contaminated surfaces.
- ❖ However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.

WHEN USING, DO NOT EAT, DRINK OR SMOKE.

WASH HANDS AND EXPOSED SKIN before meals and after work.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Environmental protection

DO NOT CONTAMINATE SURFACE WATERS OR DITCHES with chemical or used container.

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.

This material and its container must be disposed of in a safe way.

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

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

Safety data sheet available for professional user on request.

National Poisons Information Service -Tel: 0870 600 6266

**Clayton Plant Protection (UK) Ltd.,
Unit F10, Bracetown Business Park
CLONEE, Co. Meath, Ireland.
Tel: (00 353) 1 8210127**

Contents: **5 litres**

PROTECT FROM FROST
Batch No:

This product is approved under the Control of Pesticides Regulations 1986.

Conditions of Supply: all goods supplied by us are of high quality and we believe them to be correct but, as we cannot exercise control over their storage, handling, mixing or use, or weather conditions before, during and after application which may affect the performance of the goods, all conditions and warranties, statutory or otherwise, as to the quality or fitness for any purpose of our goods are excluded, and no responsibility will be accepted by us or resellers for any failure in performance, damage or injury whatsoever arising from their storage, handling, application or use. These conditions cannot be varied by our staff or agents whether or not they supervise or assist in the use of such goods.

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.

Clayton Mepiquat is a growth regulator that shortens and stiffens the straw of barley, winter wheat, triticale and winter rye. Clayton Mepiquat will prevent or suppress early lodging.

Apply as a MEDIUM spray, as defined by BCPC. Application should be carried out with a field sprayer operating according to the manufacturer's instructions. Ensure that the boom height is correctly adjusted.

WINTER WHEAT

Time of Application

The best application timing is from the second node detectable stage on the majority of tillers up to and including the flag leaf being just visible on the majority of tillers. Where chlormequat has been applied previously to the crop, the preferred application will be towards the later end of this timing. If it has proven impractical to apply Clayton Mepiquat at the best timing, application at a reduced rate can still be made after the flag leaf is just visible up to and including the boots swollen stage - see below.

Do not apply Clayton Mepiquat when the leaf sheaths have split and the ears are visible. The use of Clayton Mepiquat on variety Moulin is not advisable.

Rate of Application

Apply Clayton Mepiquat as outlined below in a minimum of 220 litres of water per hectare with adjuvant ADJ 0421 added at the rate of 40 ml per 100 litres of spray solution (not less than 20 gallons of water per acre with adjuvant ADJ 0421 added at the rate of 6½ fl oz per 100 gallons spray solution).

	Rate of Clayton Mepiquat	
	Second node detectable to flag leaf just visible	After the flag leaf just visible to boots swollen
Where chlormequat has not been applied:	2 l/ha (28 fl.oz/ac)	1.5 l/ha (21 fl.oz/ac)
In a programme following chlormequat:		
High risk of severe early lodging	2 l/ha (28 fl.oz/ac)	1.5 l/ha (21 fl.oz/ac)
Other lodging situations	1.5 l/ha (21 fl.oz/ac)	1 l/ha (14 fl.oz/ac)

WINTER BARLEY

Rates and Times of Application

1. The best application timing is from the second node detectable stage on the majority of tillers, up to and including the flag leaf being just visible on the majority of tillers. Where chlormequat has been applied previously to the crop, the preferred application will be towards the end of this timing. Apply 2 litres Clayton Mepiquat in a minimum of 220 litres of water per hectare with adjuvant ADJ 0421 added at the rate of 40 ml per 100 litres of spray solution (28 fl oz Clayton Mepiquat in not less than 20 gallons of water per acre with adjuvant ADJ 0421 added at the rate 6½ fl oz per 100 gallons spray solution).
2. If it has proven impractical to apply Clayton Mepiquat at the best timing, application at a reduced rate can still be made after the flag leaf is just visible up to and including first awns visible, but control of lodging may not be as good as with the earlier timings. Apply 1.5 litres Clayton Mepiquat in a minimum of 220 litres of water per hectare with adjuvant ADJ 0421 added as above (21 fl oz Clayton Mepiquat in not less than 20 gallons of water per acre with adjuvant ADJ 0421 added as above).

SPRING BARLEY

Times of Application

The best application timing is from the second node detectable stage on the majority of tillers, up to and including the flag leaf being just visible on the majority of tillers. If it has proven impractical to apply Clayton Mepiquat at the best timing, an application can still be made up to and including first awns visible, but lodging control may not be as good as with the earlier timings. Crops treated at the later timing are more likely to be subject to moisture stress; therefore attention should be paid to growing conditions when applying Clayton Mepiquat then. Do not treat the variety Triumph after the flag leaf just visible stage.

Rates of Application

Apply 1 litre Clayton Mepiquat in a minimum of 220 litres of water per hectare with adjuvant ADJ 0421 added at the rate of 40 ml per 100 litres spray solution (14 fl oz Clayton Mepiquat in not less than 20 gallons of water per acre with adjuvant ADJ 0421 added at the rate of 6½ fl oz per 100 gallons spray solution).

Where there is a high risk of early lodging, apply 1.5 litres Clayton Mepiquat in a minimum 220 litres of water per hectare (21 fl oz in not less than 20 gallons per acre) from second node detectable on the majority of tillers up to and including flag leaf just visible on the majority of tillers, with adjuvant ADJ 0421 added as described above. **Do not** apply this rate after the flag leaf just visible stage.

WINTER RYE

Time of Application

Apply Clayton Mepiquat from the second node detectable stage on the majority of tillers up to and including the flag leaf being just visible on the majority of tillers. Where chlormequat has been applied previously to the crop, the preferred application will be towards the later end of this timing.

Rate of Application

Apply 2 litres Clayton Mepiquat in a minimum of 220 litres of water per hectare with adjuvant ADJ 0421 added as described above (28 fl oz of Clayton Mepiquat in not less than 20 gallons of water per acre with adjuvant ADJ 0421 added as described above).

TRITICALE

Rates and Times of Application

1. The best application timing is from the second node detectable stage on the majority of tillers up to and including the flag leaf being just visible on the majority of tillers. Where chlormequat has been applied previously to the crop, the preferred application will be towards the later end of this timing. Apply 2 litres of Clayton Mepiquat In a minimum of 220 litres of water per hectare with adjuvant ADJ 0421 added at the rate of 40 ml per 100 litres spray solution (28 fl oz Clayton Mepiquat In not less than 20 gallons of water per acre with adjuvant ADJ 0421 added at the rate of 6½ fl oz per 100 gallons spray solution).
2. If it has proven impractical to apply Clayton Mepiquat at the best timing, application at a reduced rate can still be made after the flag leaf is just visible up to and including the boots swollen stage, but control of lodging may not be as good as with the earlier timings. Do not apply Clayton Mepiquat when the leaf sheaths have split and the ears are visible. Apply 1.5 litres Clayton Mepiquat in a minimum of 220 litres of water per hectare with adjuvant ADJ 0421 added as described above (21 fl oz Clayton Mepiquat in not less than 20 gallons of water per acre with adjuvant ADJ 0421 added as described above).

MIXING

Half fill the spray tank with clean water and start the agitation. Pour in the required amount of Clayton Mepiquat and, separately, the correct amount of adjuvant ADJ 0421. Add the remainder of the water and continue agitation until spraying is completed. When tank mixes are to be used, each product should be added separately to the spray tank taking due note of instructions given as to the order of mixing.

MIXTURES WITH OTHER SPRAY CHEMICALS

Clayton Mepiquat is compatible in two-way mix with carbendazim MAFF 03848 and fenpropimorph MAFF 00578 and in three-way mix with fenpropimorph MAFF 00578 + chlorothalonil MAPP 10518 (a slight scorch may occur with this three-way mix).

Note: when using tank mixes with either carbendazim MAFF 03848, chlorothalonil MAPP 10518 or fenpropimorph MAFF 00578, add the Clayton Mepiquat to the spray tank after these products.

Clayton Mepiquat is not compatible with maneb.

ALL TANK MIXES SHOULD BE USED IMMEDIATELY AFTER MIXING.

STORAGE

Keep dry and frostproof in a suitable pesticide store.

NOTES

1. Do not apply Clayton Mepiquat at temperatures above 21C (70F). It is best to apply Clayton Mepiquat in the evening in these conditions.
2. Do not use straw from Clayton Mepiquat treated cereals as a horticultural growth medium or mulch.
3. Clayton Mepiquat may be applied to crops undersown with grasses and clovers.
4. Growers should inform the appropriate seed merchant beforehand when the use of Clayton Mepiquat on a seed crop being grown for certification is intended.
5. Applications should preferably be by "tramlines" as late applications of pesticides can cause the production of green side tillers in the wheel ways which can be more noticeable in shortened crops.
6. Some delay in ear emergence may be noticed due to the shortening effect on the higher internodes.
7. Partial lodging may occur at later stages, though this leaning effect may be desirable to prevent ear loss from stiff strawed crops.
8. We recommend that you do not treat wheat variety Moulin with Clayton Mepiquat.
9. Wash equipment thoroughly after use.

10. Late secondary tillering may occur naturally in crops grown on soils subject to moisture stress and Clayton Mepiquat can accentuate this. This effect will be of more importance in barley varieties being grown for malting, where the presence of green heads may result in rejection of the crop for malting purposes. The prior use of chlormequat may help to reduce this problem in Clayton Mepiquat treated crops.
 11. Do not apply Clayton Mepiquat to any crop suffering from herbicide damage or stress caused by water-logging, drought or other conditions. Crops with a substantial moisture deficit should not be treated.
 12. Avoid spray drift on to neighbouring crops.
 13. Do not apply Clayton Mepiquat if rain or frost is expected, nor if the crop is wet, nor if significant foot disease problems are expected, particularly with 'Take-all'.
 14. Do not apply Clayton Mepiquat to winter varieties sown in the spring.
 15. Do not apply Clayton Mepiquat to crops on soils of low fertility unless these crops regularly receive adequate dressings of basic and nitrogen fertilisers.
 16. Do not apply Clayton Mepiquat to barley, triticale and winter rye grown on soils containing more than 10 per cent organic matter.
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