

CLAYTON FLORIN

MAPP 14351

Contains 305 g/l (28 % w/w) mepiquat chloride
and 155 g/l (14.2 % w/w) 2-chloroethylphosphonic acid in a soluble concentrate

2-chloroethylphosphonic acid is an anticholinesterase organophosphate. Handle with care.

Growth regulator for the reduction of lodging in the listed crops.



HARMFUL

**Harmful if swallowed
Irritating to eyes and 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.

IMPORTANT INFORMATION

FOR USE ONLY AS AN AGRICULTURAL PLANT GROWTH REGULATOR			
Crop	Maximum individual dose of product	Maximum number of treatments per crop	Latest time of application
Winter wheat	2 l/ha	One	Before flag leaf ligule just visible stage
	Or 1.5 l/ha	One	Before ear emergence
	Or 1 - 1.5 l/ha	One - see Other specific restrictions	Before flag leaf ligule just visible stage
	and 0.5 - 1 l/ha	One - see Other specific restrictions	Before flag leaf sheath opening stage
Winter barley	2 l/ha	One	Before flag leaf ligule just visible stage
	Or 1.5 l/ha	One	Before ear emergence
	Or 1 - 1.5 l/ha	One - see Other specific restrictions	Before flag leaf ligule just visible stage
	and 0.5 - 1 l/ha	One - see Other specific restrictions	Before first spikelet of inflorescence just visible stage
Triticale	2 l/ha	One	Before flag leaf ligule just visible stage
	Or 1.5 l/ha	One	Before ear emergence
Spring barley	1.5 l/ha	One	Before flag leaf ligule just visible stage
	Or 1 l/ha	One	Before ear emergence
Winter rye	2 l/ha	One	Before flag leaf ligule just visible stage
Other specific restrictions A maximum of two litres of product per hectare per crop must not be exceeded when applying split dose applications to winter wheat and winter barley.			
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.			

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 eating and drinking and after work.

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

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

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.

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 the container 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.

CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S., (contains ethephon). UN 3265; Class 8; Packing group III
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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.

USE SITUATIONS

Use Clayton Florin as recommended in the table 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. The recipient crop, spring barley excepted, will often have been treated with an approved treatment of chlormequat before the first node stage.

- Seed merchants must be consulted before treating crops intended for seed.
- Straw from treated crops must not be used in the growing of horticultural crops.
- Clayton Florin must not be used in a programme with other products containing 2-chloroethylphosphonic acid.

CROP, SOIL AND WEATHER FACTORS

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

- 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 or with a substantial soil moisture deficit.
- Do not apply in periods of high temperature, more than 21°C (70°F), or if such temperatures might occur 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, water-logging, physical damage, herbicide or other product damage, pest or disease attack (particularly foot diseases especially take-all), poor nutrition or other disorder until the stresses have been fully relieved and the crop is growing normally.
- Do not apply within 10 days of a herbicide treatment.
- Do not use on spring-sown winter varieties or late-sown crops.
- Do not use on barley, triticale or winter rye growing on soils containing 10 % or more organic matter; winter wheat on organic soils may be treated.
- Ear emergence may be slightly delayed as a result of straw shortening and some lodging may occur at a late stage.

RECOMMENDATIONS

Apply well before any signs of lodging as per the following Table. **Always add an authorised non-ionic wetting agent at its recommended rate to the spray mixture.**

Crop and situation	Application timing	Dose	Further directions and advice
Winter wheat Winter barley Vigorously growing crops not previously treated with growth regulator or after chlormequat but where a high risk of early lodging still remains.	Split dose application <i>First dose</i> During stem elongation from 2nd node to flag leaf just visible stages. <i>Second dose</i> From the tip of the flag leaf becoming just visible to before the first spikelet of the inflorescence is just visible on winter barley or until the boots are swollen on winter wheat.	1-1.5 l/ha 0.5-1 l/ha	Do not apply more than 2 l/ha product in total to any crop. Do not apply Clayton Florin when the sheaths have opened and the ears are visible. See <i>proviso</i> on Crop Yield and Quality .
Spring barley Vigorously growing crops requiring protection against lodging.	Single dose application <i>Either:</i> apply just before the flag leaf becomes visible. <i>Or:</i> apply before ear emergence	2 l/ha 1.5 l/ha	
	<i>Either:</i> Before the flag leaf becomes just visible. <i>Or:</i> Before the tips of the awns become just visible. <i>Do not treat var. Triumph after the flag leaf visible stage.</i>	1.5 l/ha 1 l/ha	Optimum timing is from 2 nd node to flag leaf just visible stages inclusive. The response is usually best at the earlier timing owing to the likelihood of moisture stress at the later timing. See <i>proviso</i> on Crop Yield and Quality .
Triticale Crops not previously treated with growth regulator or after chlormequat but where a high risk of early lodging still remains.	<i>Either:</i> Before the flag leaf becomes just visible. <i>Or:</i> Before ear emergence. <i>Do not apply when the leaf sheaths have opened and the ears are visible.</i>	2 l/ha 1.5 l/ha	Optimum timing is from 2 nd node to flag leaf just visible stages inclusive if chlormequat has not been applied. If chlormequat has been applied to the crop earlier, the preferred timing is toward the later timing option.
Winter rye Crops not previously treated with growth regulator or after chlormequat but where a high risk of early lodging still remains.	From the 2 nd node becoming detectable to before the flag leaf becomes just visible.	2 l/ha	If chlormequat has been applied to the crop earlier, the preferred timing is toward the later timing option.

Crop Yield and Quality

Latent stresses, particularly moisture stress, upon a crop may reduce crop growth and/or lead to secondary tillering. This may be accentuated by Clayton Florin. In some cases latent stresses may combine to reduce grain quality resulting in the rejection of the sample for malting or other use.

APPLICATION

Apply the recommended dose as a MEDIUM spray (BCPC) in at least 220 litres of water per ha with the addition of an authorised non-ionic wetting agent at its recommended rate. Ensure that spray boom height is set to give even coverage of the crop. Apply via established tramlines to minimise production of green side tillers. Avoid spray drift onto neighbouring crops.

COMPATIBILITY

Clayton Florin is compatible for co-application in tank-mixture with certain approved pesticides. When employing tank-mixtures, comply with the Directions for Use of the partner product and of this label. Please contact your distributor for further information.

Certain mixtures are known to be incompatible; these include mixtures with metsulfuron-methyl, epoxiconazole + fenpropimorph, maneb and mancozeb.

MIXING

Thoroughly shake the product in its container before pouring. Half-fill the spray tank with clean water and put under agitation. Mix in the required volume of Clayton Florin through the top filter or filling device. Separately add the required amount of authorised wetting agent. Top up the tank with water and keep under agitation until sprayed out. When mixing compatible products add each separately to the spray tank taking due note of any instructions on the order of mixing. Spray immediately after mixing.

UNDERSOWN CROPS

The listed crops undersown with grasses and clovers may be treated safely with Clayton Florin used alone.

EQUIPMENT MAINTENANCE

Immediately after use wash the spraying machine and all utensils thoroughly with clean water and a wetting agent recommended for the cleaning of application equipment.
