

# CLAYTON SQUAT

MAPP 12271

contains 400 g/l chlormequat chloride in a soluble concentrate  
with 20 g/l manganese as MnEDTA and 10 g/l copper as CuEDTA

**Growth regulator to reduce lodging of winter and spring wheat, winter and spring oats,  
winter barley and winter rye, formulated with chelated manganese and copper.**



**HARMFUL**

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**IN CONTACT WITH SKIN AND IF SWALLOWED**

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

| <b>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</b> |   |  |   |
|--|---|--|---|
| <b>Crop</b>  | <b>Maximum individual dose of product</b> | <b>Maximum number of treatments per crop</b> | <b>Latest time of application</b>             |
| Winter wheat   | 4.2 l/ha                                  | one  | before the 1 <sup>st</sup> node is detectable |
|  | or<br>3 l/ha<br>plus<br>1.2 l/ha          | one  | before the 1 <sup>st</sup> node is detectable |
|  |   | one  | before the 2 <sup>nd</sup> node is detectable |
| Spring wheat   | 2.1 l/ha                                  | one  | before the 1 <sup>st</sup> node is detectable |
| Winter rye   | 4.2 l/ha                                  | one  | before the 2 <sup>nd</sup> node is detectable |
| Winter barley  | 4.2 l/ha                                  | one  | before the 1 <sup>st</sup> node is detectable |
| Winter oats  | 4.2 l/ha                                  | one  | before the 3 <sup>rd</sup> node is detectable |
| Spring oats  |   |  |   |

**READ ALL OTHER SAFETY PRECAUTIONS AND DIRECTIONS FOR USE BEFORE USE**

## **SAFETY PRECAUTIONS**

### **Operator protection**

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

WASH CONCENTRATE from skin or eyes immediately.

WHEN USING DO NOT EAT, DRINK OR SMOKE.

DO NOT BREATHE SPRAY.

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 SURFACE WATERS OR DITCHES with chemical or used container.

### **Storage and disposal**

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.

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

KEEP OUT OF REACH OF CHILDREN.

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

- ❖ DO NOT RE-USE CONTAINER for any purpose.

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.

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

**Clayton Plant Protection (UK) Ltd.**

**Unit F10**

**Bracetown Business Park**

**CLONEE**

**Co. Meath**

**Ireland**

Tel: (00 353) 1 8210127

Fax: (00 353) 1 8217747

Net contents: **5-20 litres**

PROTECT FROM FROST

Batch No:

**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.**

### GROWTH REGULATION IN CEREALS

Clayton Squat can be applied to all varieties of wheat, oats, winter barley and winter rye. The time of application is critical and it is essential to apply Clayton Squat only to healthy crops, which are actively growing. The benefits can be reduced lodging and prevention of loss of yield. Results vary according to the cereal being treated. Under the recommended conditions of application, Clayton Squat will thicken and strengthen the straw and in the case of wheat and oats, in particular, will shorten the straw. Effects on lodging in winter barley are less consistent than in wheat or oats, but yield increases have been obtained with and without reduction in lodging. Use in rye has given inconsistent results.

### THE BENEFITS OF CO-FORMULATION WITH MANGANESE AND COPPER

Potentially high-yielding crops may display symptoms of manganese deficiency during periods of rapid growth, owing to the low availability of manganese from the soil reserves. The recommended period of application of chlormequat conveniently coincides with a period of high plant demand for manganese. Crop requirement for copper is lower than for manganese but deficiencies, with consequent effect upon yield, do occur on certain soils particularly those with a low inherent copper status or those with a raised organic matter level where it may be bound in organic complexes. Clayton Squat, specially formulated to provide supplemental manganese and copper to the listed cereal crops in addition to growth regulatory functions, dispenses with the need for an extra spraying operation. Under many conditions, an application of Clayton Squat can provide sufficient supplemental manganese and copper for maximum yield of the treated cereal crop, but under circumstances of very high plant demand and/or low soil availability, further treatment with foliar manganese or copper may be necessary at a later date.

### RECOMMENDATIONS

| Crop  | Rate of Application  | Time of Application   |
|---|--|---|
| Winter wheat  | <i>Single dose</i><br>4.2 l/ha (3 pints/ac)  | From fully tillered to just before the 1 <sup>st</sup> node (GS31) is detected. Optimum results are obtained at leaf-sheath lengthening (GS30).   |
| <i>Treat winter wheat varieties sown in the spring as for winter wheat.</i> | <i>Split doses</i><br>1 <sup>st</sup> dose<br>3 l/ha (42 fl.oz/ac)<br>2 <sup>nd</sup> dose<br>1.2 l/ha (18 fl.oz/ac) | 1 <sup>st</sup> dose: from fully tillered to just before the 1 <sup>st</sup> node (GS31) is detected.<br>2 <sup>nd</sup> dose: apply before the 2 <sup>nd</sup> node (GS32) is detected.  |
| Spring wheat  | 2.1 l/ha (1½ pints/ac)   | From fully tillered to just before the 1 <sup>st</sup> node (GS31) is detected. Optimum results are obtained at leaf-sheath lengthening (GS30).   |
| Winter barley   | 4.2 l/ha (3 pints/ac)  | From mid tillering to just before the 1 <sup>st</sup> node (GS31) is detected. If possible apply before leaf-sheath lengthening (GS30). Even though the earliest application timing may be reached in the autumn in early sown crops, application should be delayed until the spring. |
| Winter oats<br>Spring oats  | 4.2 l/ha (3 pints/ac)<br><i>The addition of an authorised non-ionic wetting agent is essential for best results.</i> | When the 2 <sup>nd</sup> node (GS32) of most tillers can be detected to before the 3 <sup>rd</sup> node (GS33) is detected. The crop will normally be 30-50cm (12-20") high at treatment. Best overall control of lodging will be obtained with the shorter strawed varieties.        |
| Winter rye  | 4.2 l/ha (3 pints/ac)  | From leaf-sheath lengthening (GS30) up to and including the 1 <sup>st</sup> node (GS31) being detected on the majority of the tillers. Lodging may not be controlled but it can often be reduced by this treatment.   |

**CROP AND WEATHER CONDITIONS**

Best results are obtained in vigorous crops actively growing in a warm, moist environment. Do not spray during periods of frost or low night temperatures, onto wet foliage or if rain is expected within 6 hours. Crops under stress due to extremes of temperature, drought or water-logging, pest or disease attack, nutrient deficiency or any other factor should not be sprayed. Do not treat late-sown crops.

**UNDERSOWN CROPS**

Crops undersown with grasses and clovers may be treated.

**APPLICATION**

Apply Clayton Squat in 200-450 l/ha water (18-40 gal/ac) as a MEDIUM spray (BCPC definition). When crop cover is dense use the higher recommended water volume. Avoid overlapping spray swaths and drift onto neighbouring crops.

**MIXING**

Add the measured amount of Clayton Squat via the filter to the spray tank half-filled with water under agitation. Top up the tank with water and keep under agitation until completion of spraying. Spray immediately after mixing.

**COMPATIBILITY**

Clayton Squat is physically compatible in tank-mixtures with approved salt formulations of MCPA (MAFF 07400). When tank-mixing with the phenoxy herbicides, care must be taken to ensure that the time of application appropriate to each product is chosen. Tank-mixtures with the phenoxy herbicides for use on oats are not recommended due to the later time of application for this crop. Products containing diflufenican are not compatible with Clayton Squat. The Directions for Use of this label and those of the selected product must be strictly followed. Mixtures with nitrogenous foliar feeds are not recommended. When tank-mixing, add each product separately to the spray tank, taking due note of any label directions as to the order of mixing.

**AFTER USE**

Immediately after use, thoroughly clean the sprayer and utensils with water and a cleaning agent recommended for the cleaning of spraying equipment.

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