



# Coupon®

**Coupon® is a plant growth regulator for use in winter and spring crops of barley and winter crops of wheat, rye and triticale.**



**GROWTH REGULATOR**

A soluble concentrate formulation containing 480 g/L (40% w/w) Ethephon (2-chloroethylphosphonic acid).



## **DANGER**

### **RISK AND SAFETY INFORMATION**

**May be corrosive to metals.**  
**Causes serious eye damage.**  
**Toxic to aquatic life with long lasting effects.**

Wear protective gloves/protective clothing/eye protection/face protection.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.  
Dispose of contents/container to a licensed hazardous waste disposal contractor or collection site except for triple rinsed empty 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.**  
**PCS no. 06271**

**CONTENT: 5 lit. e**

### **Registration holder:**

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**Globachem**  
Your Crop Counts

ET12879/V01



Coupon® is a registered trademark for Globachem N.V.

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## GROWTH REGULATOR

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### SAFETY PRECAUTIONS

#### OPERATOR PROTECTION

This product contains an anticholinesterase organophosphorus compound and must not be used by those under medical advice. NOT to work with such compounds.

WEAR SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACE SHIELD) when handling the concentrate.

WEAR SUITABLE PROTECTIVE GLOVES when handling contaminated surfaces.

WASH CONCENTRATE from skin or eyes immediately.

AVOID ALL CONTACT BY MOUTH.

WHEN USING DO NOT EAT, DRINK OR SMOKE.

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

#### 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.

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 safely. Triple rinsed containers should be punctured to prevent re-use and may be disposed of by an authorised contractor or at a municipal waste recycling site.

### 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.

### GENERAL INFORMATION

Coupon® plant growth regulator reduces straw length and gives greater resistance to lodging and aids harvesting of winter and spring varieties of barley and winter varieties of wheat, rye and triticale. The full benefit of Coupon® treatment will only be obtained on crops which have received adequate inputs (e.g. fertilizer and fungicides).

The best response to Coupon® plant growth regulator is obtained when the crop is growing vigorously. Apply Coupon® plant growth regulator before lodging has started. It is recommended that only crops grown under conditions of high fertility and, therefore, at risk from lodging, should be treated with Coupon® plant growth regulator. Thin crops and particularly those on soil of low fertility are less likely to lodge, and in addition such crops of winter wheat may ripen prematurely.

### RESTRICTIONS

Stress factors reduce crop growth and may also lead to secondary tillering and small grains. Coupon® plant growth regulator if used under stress conditions may lead to these effects being more pronounced, particularly on spring barley.

Cereals can be susceptible to drought stress. Do not spray when the soil is very dry.

Do not use within 10 days of any herbicide or liquid fertilizer treatment.

Do not spray crops heavily diseased or suffering from pest damage, nutrient deficiency or herbicide stress.

Do not spray during cold weather or periods of night frost.

Do not spray where crop is wet or rain is imminent.

Avoid overlapping spray bouts.

Avoid drift of spray to adjoining crops.

Wash sprayer and mixing vessels with plenty of clean water.

Do not re-use container for any purpose.

### CROP SPECIFIC INFORMATION

Use on winter and spring varieties of barley and on winter varieties of wheat, rye and triticale.

**WINTER BARLEY:** Coupon® can be applied to winter barley from the 'second node detectable' stage of crop growth up to before 'first awns just visible' stage (GS 32 -49). The greatest resistance to lodging is achieved by treatment at the 'flag leaf just visible' stage of crop growth (GS 37).

**High Lodging Risk Crops:** For the greatest resistance to lodging use a sequential treatment of an approved formulation containing chlormequat followed by Coupon®. Apply chlormequat according to manufacturers' label instructions followed by Coupon® at 0.75 L/ha from the

'flag leaf just visible' stage of crop growth up to before 'first awns just visible' stage (GS 37-49). The optimum time for Coupon® application is at the 'flag leaf just visible' stage of crop growth (GS 37). Where the crop has not received prior treatment with chlormequat apply Coupon® at 1.0 L/ha from the 'flag leaf just visible' stage of crop growth up to 'first awns just visible' stage (GS 37 -49).

Coupon® may also be applied from the second node detectable stage of crop growth (GS 32) but the optimum time for Coupon® application is at the 'flag leaf just visible' stage (GS 37).

**Low Lodging Risk Crops:** Where lodging is not expected to be a severe problem, the crop may be treated with a sequential programme of an approved formulation containing chlormequat followed by a reduced rate of Coupon®. Apply chlormequat according to manufacturers' label instructions followed by Coupon® at 0.5 L/ha from the 'flag leaf just visible' stage of crop growth up to 'first awns just visible' stage (GS 37 -49).

Where the crop has not received prior treatment with chlormequat apply Coupon® at 0.75 L/ha from the 'flag leaf just visible' stage of crop growth up to the 'first awns just visible' stage (GS 37 -49). The optimum time for Coupon® application is at the 'flag leaf just visible' stage of crop growth (GS 37).

**WINTER WHEAT:** For the greatest resistance to lodging, use a sequential programme of an approved chlormequat product followed by Coupon®. Apply chlormequat according to manufacturers' label instructions, followed by Coupon® at 0.5 L/ha from the 'flag leaf just visible' stage of crop growth up to before 'flag leaf sheath opening' stage (GS 37 -47). Do not spray crops where the leaf sheaths have split and the ears are visible. Where the crop has not received prior treatment with chlormequat apply Coupon® at 0.75 L/ha from the 'flag leaf just visible' stage of crop growth up to before 'flag leaf sheath opening' stage (GS 37 -47). Do not spray crops where the leaf sheaths have split and the ears are visible.

**WINTER TRITICALE:** Coupon® may be applied at 1.0 L/ha from the 'flag leaf just visible' stage of crop growth up to before 'flag leaf sheath opening' stage (GS 37 -47). Do not spray crops where the leaf sheaths have split and the ears are visible. The best control of lodging will be given if the crop has received prior treatment with chlormequat at the recommended timing.

**WINTER RYE:** Apply Coupon® at a maximum of 1.0 L/ha from the 'flag leaf just visible' stage of crop growth up to before 'first awns just visible' stage (GS 37 -49). Crops of winter rye which have received prior treatment with approved chlormequat products may be treated with Coupon® from the 'flag leaf just visible' stage up to before 'first awns just visible' stage (GS 37 -49).

**SPRING BARLEY:** Apply Coupon® at 0.5 L/ha from the 'second node detectable' stage of crop growth up to before 'first awns just visible' stage (GS 32 -49).

Only crops which have been drilled early, have a high yield potential and are likely to suffer severe lodging should be treated with Coupon®. Crops suffering from stress or likely to be stressed, for example due to soil conditions, should not be treated (see warning below) because undesirable side effects may occur, for example secondary (green) tillers, trapped heads, or shrivelled grains.

#### SPRAYER APPLICATION

Apply through a conventional field crop sprayer using medium nozzles at a pressure of 2-3 bar. Good spray coverage is essential. Ensure the sprayer is correctly calibrated before use and adjusted to give adequate and even coverage of the top leaves. Spray immediately after mixing. Spray quality: Coupon® plant growth regulator should be applied as a MEDIUM spray (BCPC category). Water volume: 200-400 L/ha.

Coupon® may also be applied in a reduced water volume of 100 litres per hectare as a FINE spray (BCPC category) provided suitable spray nozzles are selected for this type of operation.

#### MIXING

Half fill the spray tank with clean water, add the required amount of Coupon® and agitate during the completion of filling.

#### COMPATIBILITY

Follow the manufacturer's recommendations for the application of tank mix products.

#### CONDITIONS OF SUPPLY

All goods supplied by us are of high grade and we believe them to be suitable but, as we cannot exercise control over their storage, handling, mixing or use, or the weather conditions before, during or 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. No responsibility will be accepted by us or re-sellers 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.

