



Cerone[®]

CONTAINS A soluble concentrate formulation containing 480 g/L (39.6% w/w) Ethephon, (2-chloroethylphosphonic acid).

CONTROLS For use only as an agricultural growth regulator for use in winter and spring varieties of barley and winter varieties of wheat, rye and triticale.

PCS 03933

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.

Cerone 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 Cerone treatment will only be obtained on crops which have received adequate inputs (e.g. fertilizer and fungicides).

The best response to Cerone plant growth regulator is obtained when the crop is growing vigorously. Apply Cerone 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 Cerone plant growth regulator. Thin crops and particularly those on soils of low fertility are less likely to lodge, and in addition such crops of winter wheat may ripen prematurely.

plant growth regulator

RATE OF USE

| CROP | MAXIMUM INDIVIDUAL DOSE | MAXIMUM TOTAL DOSE | LATEST TIME OF APPLICATION |
|-----------------------|-------------------------------|-------------------------------|--|
| Winter wheat | 0.75 litre of product/hectare | 0.75 litre of product/hectare | Flag leaf just visible stage of crop growth (GS37) up to and including the boots swollen stage (GS 45) |
| Winter triticale | 1.0 litre of product/hectare | 1.0 litre of product/hectare | Flag leaf just visible stage of crop growth (GS37) up to and including the boots swollen stage (GS 45) |
| Winter barley and rye | 1.0 litre of product/hectare | 1.0 litre of product/hectare | Before first spikelet of inflorescence just visible stage (GS 49) |
| Spring barley | 0.5 litre of product/hectare | 0.5 litre of product/hectare | Before first spikelet of inflorescence just visible stage (GS 49) |

Method of application: Tractor mounted sprayer

A spray pressure of 2-3 bar is recommended.

Apply Cerone in 200-300 litres per hectare water.

Apply as a **MEDIUM** spray quality.

Cerone may also be applied in a reduced water volume of 100 litres per hectare as a **FINE** spray provided suitable spray nozzles are selected for this type of operation.

RESTRICTIONS

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

Cerone can be applied to winter barley from the 'second node detectable' stage of crop growth up to and including the '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 Cerone. Apply chlormequat according to manufacturers' label instructions followed by Cerone at 0.75 L/ha from the 'flag leaf just visible' stage of crop growth up to and including the 'first awns just visible' stage (GS 37-49). The optimum time for Cerone 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 Cerone at 1.0 L/ha from the 'flag leaf just visible' stage of crop growth up to and including 'first awns just visible' stage (GS 37-49).

Cerone may also be applied from the second node detectable stage of crop growth (GS 32) but the optimum time for Cerone 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 Cerone. Apply chlormequat according to manufacturers' label instructions followed by Cerone at 0.5 L/ha from the 'flag leaf just visible' stage of crop growth up to and including 'first awns just visible' stage (GS 37-49).

Where the crop has not received prior treatment with chlormequat apply Cerone at 0.75 L/ha from the 'flag leaf just visible' stage of crop growth up to and including the 'first awns just visible' stage (GS 37-49). The optimum time for Cerone 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 Cerone. Apply chlormequat according to manufacturers label instructions, followed by Cerone at 0.5 L/ha from the 'flag leaf just visible' stage of crop growth up to and including the 'boots swollen' stage (GS 37-45).

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 Cerone at 0.75 L/ha from the 'flag leaf just visible' stage of crop growth up to and including the 'boots swollen' stage (GS 37-45). **DO NOT** spray crops where the leaf sheaths have split and the ears are visible.

WINTER TRITICALE

Cerone may be applied at 1.0 L/ha from the 'flag leaf just visible' stage of crop growth up to and including the 'boots swollen' stage (GS 37-45). **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 Cerone at a maximum of 1.0 L/ha from the 'flag leaf just visible' stage of crop growth up to and including the '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 Cerone from the 'flag leaf just visible' stage up to and including the 'first awns just visible' stage (GS 37-49).

SPRING BARLEY

Apply Cerone at 0.5 L/ha from the 'second node detectable' stage of crop growth up to and including the '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 Cerone. 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. **DO NOT** use on the variety Triumph.

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: Cerone plant growth regulator should be applied as a **MEDIUM** spray (BCPC category).

Water volume: 200-400 L/ha.

Cerone 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 Cerone and agitate during the completion of filling.

COMPATIBILITY

Cerone may be applied as a tank-mix with a range of products.

Contact Bayer CropScience for compatibility information on specific tank-mixes.

Full manufacturer's instructions must be followed for each tank-mix component.

Apply Cerone plant growth regulator in mixture with other chemicals only if any requirements or restrictions on the label do not conflict with the requirements and restrictions for Cerone.

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 SURFACE WATERS OR DITCHES with chemical or used 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.

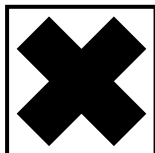
WASH OUT CONTAINER THOROUGHLY, empty washings into spray tank and dispose of safely.

READ ALL INSTRUCTIONS CAREFULLY BEFORE USE.

RISK AND SAFETY INFORMATION

CERONE

Contains 480 g/L (39.6% w/w) Ethephon, (2-chloroethylphosphonic acid).



HARMFUL

RISK OF SERIOUS DAMAGE TO EYES.

IRRITATING TO RESPIRATORY SYSTEM.

HARMFUL BY INHALATION.

HARMFUL TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.

Keep out of reach of children.

Keep away from food, drink and animal feedingstuffs.

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

In case of insufficient ventilation wear suitable respiratory equipment.

Wear eye/face protection.

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

Use appropriate containment to avoid environmental contamination.

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

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

PACK SIZE

1 L