

EPHON TOP



MAPP 18872
PCS No. 06761

A soluble concentrate containing 660 g/L (51.8% w/w) ethephon (2-chloroethylphosphonic acid) for use as a growth regulator in winter and spring barley and winter and spring wheat, durum wheat, rye, spelt and triticale.

DANGER



May be corrosive to metals.
Harmful in contact with skin.
Causes severe skin burns and eye damage.
Toxic to aquatic life with long lasting effects.



Keep only in original container.
Avoid breathing dust/fume/gas/mist vapours/spray.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
DO NOT induce vomiting.

IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing.
Rinse skin with water/shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do.

Continue rinsing.
IF SKIN IRRITATION OR RASH OCCURS: Get medical advice/attention.

Dispose of contents/container to a licensed hazardous waste disposal contractor or collection site except for empty/rinse containers which can be disposed of as non-hazardous waste.

Corrosive to the respiratory tract.

To avoid risks to human health and the environment, comply with the instructions for use

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UFI No TWEE-22NM-QHA2-K54Y

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.

Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment. WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACESHIELD) when handling the concentrate.

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

KEEP OUT OF REACH OF CHILDREN.

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS.

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

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

PROTECT FROM FROST

FOR PROFESSIONAL USE ONLY

Nufarm UK Limited

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Technical Helpline telephone number +44 (0)1274 694714

24-hour emergency telephone number +44 (0)1274 696603

5 Litres e



This label is compliant with the CPA Voluntary Initiative Guidance.

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Nufarm

Grow a better tomorrow

**IMPORTANT INFORMATION
FOR USE ONLY AS A PROFESSIONAL PLANT GROWTH REGULATOR**

Crops	Maximum Individual Dose (L product/ha)	Maximum Total Dose (L product/ha)	Latest Time of Application
Winter Barley	0.75	0.75	Before 1st spikelet of inflorescence just visible stage (GS 49)
Winter & Spring Wheat	0.75	0.75	Before 1st spikelet of inflorescence just visible stage (GS 49)
Triticale	0.75	0.75	Before 1st spikelet of inflorescence just visible stage (GS 49)
Rye	1.1	1.1	Before 1st spikelet of inflorescence just visible stage (GS 49)
Spring Barley	0.5	0.5	Before 1st spikelet of inflorescence just visible stage (GS 49)
Spelt	0.6	0.6	Before flag leaf sheath swollen stage (GS45)

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.

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.

RESTRICTIONS

- Stress factors reduce crop growth and may also lead to secondary tillering and small grains. The use of EPHON TOP under stress conditions may lead to these effects being more pronounced, especially 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.

PROBLEM CONTROLLED

The use of EPHON TOP on winter and spring barley and (durum) wheat as well as winter varieties of rye and triticale and spelt can help reduce straw length and give greater resistance to lodging and aid harvesting. The full benefit of EPHON TOP treatment will only be obtained on crops which have received adequate inputs (e.g. fertilizer and fungicides).

The best response to EPHON TOP is obtained when the crop is growing vigorously. Apply EPHON TOP 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 EPHON TOP. 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.

CROP SPECIFIC INFORMATION

Use on winter and spring varieties of barley and wheat (including durum wheat) and on winter varieties of rye and triticale and spelt.

Only crops which have been drilled early, have a high yield potential and are likely to suffer severe lodging should be treated with EPHON TOP. Crops suffering from stress or likely to be stressed, for example due to soil conditions, should not be treated (see RESTRICTIONS section).

WINTER BARLEY

Application Rate:	0.75 L product/ha
Maximum Total Dose:	0.75 L product/ha
Application Timing:	EPHON TOP can be applied to winter barley from the first node detectable stage (GS 31) up to and including the first awns just visible stage (GS 49).
High Lodging Risk Crops:	For the greatest resistance to lodging use a sequential treatment of an approved formulation containing chlormequat followed by EPHON TOP.
Water Volume:	100 – 400 L water/ha

WINTER & SPRING WHEAT

Application Rate:	0.75 L product/ha
Maximum Total Dose:	0.75 L product/ha
Application Timing:	EPHON TOP can be applied to winter and spring wheat from the first node detectable stage (GS 31) up to and including the first awns just visible stage (GS 49).
Water Volume:	100 – 400 L water/ha

TRITICALE

Application Rate:	0.75 product/ha
Maximum Total Dose:	0.75 product/ha
Application Timing:	EPHON TOP can be applied to triticale from the first node detectable stage (GS 31) up to and including the first awns just visible stage (GS 49). The best control of lodging will be given if the crop has received prior treatment with chlormequat at the recommended timing.
Water Volume:	100 – 400 L water/ha

RYE

Application Rate:	1.1 L product/ha
Maximum Total Dose:	1.1 L product/ha
Application Timing:	EPHON TOP can be applied to winter rye from the first node detectable stage (GS 31) up to and including the first awns just visible stage (GS 49). Crops of winter rye which have received prior treatment with approved chlormequat products may be treated with EPHON TOP from the flag leaf just visible stage (GS 37) up to and including the first awns just visible stage (GS 49).
Water Volume:	100 – 400 L water/ha

SPRING BARLEY:

Application Rate:	0.5 L product/ha
Maximum Total Dose:	0.5 L product/ha
Application Timing:	EPHON TOP can be applied to spring barley from the first node detectable stage (GS 31) up to and including the first awns just visible stage (GS 49).
Water Volume:	100 – 400 L water/ha

SPELT

Application Rate:	0.6 L product/ha
Maximum Total Dose:	0.6 L product/ha
Application Timing:	EPHON TOP can be applied to spelt from the first node detectable stage (GS 31) up to and including the flag leaf sheath swollen (GS 45).
Water Volume:	100 – 400 L water/ha

MIXING AND SPRAYING

Mixing

Add the appropriate amount of EPHON TOP to clean water in a half-filled sprayer tank. Start agitation and when mixed thoroughly add the remainder of the water. Continue agitation during the completion of filling. Spray immediately after mixing.

Spraying

Before spraying ensure that the sprayer is clean and in good working order. Check all hoses, filters and nozzles. Calibrate according to the sprayer manufacturer's recommendations and ensure that the sprayer is adjusted to give adequate and even coverage of the top leaves.

Apply through a conventional field crop sprayer using medium nozzles at a pressure of 2-3 bar. Good spray coverage is essential.

Spray quality: EPHON TOP plant growth regulator should be applied as a **MEDIUM** spray (BCPC category).
Water volume 200-400 L/ha

EPHON TOP may also be applied in a reduced water volume of 100 litres/ha as a **FINE** spray (BCPC category) provided suitable spray nozzles are selected for this operation.

TANK CLEANING INSTRUCTIONS

After use, drain the sprayer, wash thoroughly with water and liquid detergent and spray out completely.

Ensure that all liquid is removed from the sprayer tank, pump and hoses and ensure nozzles and nozzle filters are clean.

Remove nozzles, open tank and drain pump to allow free access of air to all parts.

COMPANY ADVISORY INFORMATION

This section is not part of the Product Label under the Plant Protection Products Regulations 2011. It provides additional advice on product use at the discretion of the applicant.

TERMS AND CONDITIONS OF SUPPLY, SALE OR USE

All goods supplied by Nufarm are high grade and we believe them to be suitable for the purpose for which we expressly supply them: but as we cannot exercise any control over their mixing, use or 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 our Associate Companies for any damage or injury whatsoever arising from their storage, handling, re-application or use. These conditions cannot be varied by our staff, our agents or the re-sellers of the product whether or not they supervise or assist in the use of such goods.

To access the product SDS scan the QR code or refer to the Nufarm website at <https://www2.nufarm.com/uk/>

