



# PALERMO®



ADAMA

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PLANT GROWTH REGULATOR

Soluble concentrate

MAPP 20387



## Ingredients

- Chlormequat chloride ..... 720 g/l (63.2% w/w)



## Crops

A growth regulator in winter and spring wheat, winter barley and oats.



## Warning

**Harmful if swallowed.**

**Harmful in contact with skin.**

Wear protective gloves & protective clothing.

IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.

IF ON SKIN: Wash with plenty of soap and water.

Dispose of content/container to a licensed hazardous-waste disposal contractor or collection site except for empty, clean 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.**



## Scan for Safety Data Sheet

Or use the weblink : <http://bit.ly/3hqBWlu>  
Alternatively, contact your supplier.



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This label is compliant with the Voluntary Initiative Guidance.

NO VARNISH AREA

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L70056TPBB\_02



## PROTECT FROM FROST SHAKE WELL 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 CLOTHING (COVERALLS) AND SUITABLE PROTECTIVE GLOVES when handling the concentrate or handling contaminated surfaces.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) when applying the product.

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

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

WHEN USING DO NOT EAT, DRINK OR SMOKE.

IF YOU FEEL UNWELL seek medical advice (show the label where possible).

### 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 AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.

KEEP OUT OF REACH OF CHILDREN.

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

RINSE CONTAINER THOROUGHLY by using an integrated pressure rinsing device or manually rinsing three times. Add washings to the spray tank at time of filling and dispose of safely.

DO NOT REUSE CONTAINER FOR ANY PURPOSE.

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

**For advice on medical emergencies, fires or major spills telephone the National Chemical Emergency Centre on 01865 407333.**

### IMPORTANT INFORMATION

FOR PROFESSIONAL USE ONLY AS AN AGRICULTURAL PLANT GROWTH REGULATOR

**Crops:** Winter and spring wheat, winter barley and oats.

**Maximum individual dose; Maximum number of treatments; Latest time of application and Other specific restriction:** full details are given in the information box within the leaflet attached to the product.

**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.**

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



This leaflet is part of the approved label.

PALERMO® is a soluble concentrate formulation containing 720 g/L (63.2 % w/w) chlormequat chloride. It is a growth regulator in winter and spring wheat, winter barley and oats.

IMPORTANT INFORMATION FOR PROFESSIONAL USE ONLY AS AN AGRICULTURAL PLANT GROWTH REGULATOR.			
Crops	Maximum individual dose (litres of product per hectare)	Maximum number of treatments (per crop)	Latest time of application
Wheat (spring)	1.1	1	Before flag leaf stage – BBCH 39
Oats	2.08	1	
	Or		
Barley (winter)	1.0	2	
	2.08	1	
Wheat (winter)	Or		
	1.1 and 0.9	1  1	
Wheat (winter)	2.08	1	
	Or		
	0.7 and 0.9	1  1	
<b>Other specific restriction:</b> This product must only be applied between growth stages BBCH 31 to BBCH 39. <b>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.</b>			

## 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.*

PALERMO plant growth regulator shortens and strengthens the stem internodes and may give some resistance to lodging.

PALERMO will be most effective when applied at the correct timing to a vigorous, actively growing crop, with a good plant population and an adequate nutrient and moisture supply.

It is recommended to apply PALERMO before lodging occurs. The best response to PALERMO plant growth regulator is obtained when the crop is growing vigorously and under conditions of high fertility.

Only winter wheat crops at risk from lodging should be treated with PALERMO.

Thin crops and particularly those on soils of low fertility are less likely to lodge, and in addition such crops may ripen prematurely.

### RESTRICTIONS

Stress factors reduce crop growth and may also lead to secondary tillering and small grains. PALERMO, if used under stress conditions, may lead to more secondary tillering and more small grains.

Cereals can be susceptible to drought stress.

Do not spray when soil is very dry.

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

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

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

Avoid overlapping spray bouts, and drift of spray to neighbouring crops.

Under stress conditions, mixtures with liquid nitrogenous fertilisers may cause scorch. This is normally outgrown without affecting yield

At least 6 hours and preferably 24 hours are required before rainfall for optimum results.

DO NOT treat very late sown spring wheat or spring oats.

Avoid spray drift to neighbouring crops and plants.

## CROP SPECIFIC INFORMATION

### Time of application

PALERMO can be applied between the stem elongation stage, first node detectable (GS 31) up to the flag leaf stage (GS 39).

### Rate of use

Spring wheat	Winter wheat	Winter barley	Oats
Apply at 1.1 litres per hectare.	Apply at 2.08 litres per hectare. Alternatively, apply as a sequential application at 0.7 litres per hectare followed by 0.9 litres per hectare.	Apply at 2.08 litres per hectare. Alternatively, apply as a sequential application at 1.1 litres per hectare followed by 0.9 litres per hectare. <i>It should be noted that the effect of chlormequat on winter barley is not consistent.</i>	Apply at 2.08 litres per hectare. Alternatively, apply as a sequential application at 1.0 litre per hectare followed by a second application of 1.0 litre per hectare. <i>Add an authorised non-ionic wetting agent to the spray at recommended rates.</i>

## MIXING AND SPRAYING

Apply through a conventional field crop sprayer and use medium nozzles at a pressure of 2-3 bar.

Water volume recommended: 200-400 L/ha.

Good spray coverage is essential. Ensure the sprayer is correctly calibrated before applying and adjusted to give optimal and even coverage of the top leaves. Spray immediately after mixing.

PALERMO should be applied as a medium spray (BCPC category).

### Mixing

Shake the container well before use.

Half fill the spray tank with clean water and add the required amount of PALERMO. Begin spray tank agitation and top up to the required volume with clean water. Maintain agitation until spraying is completed.

Do not leave the sprayer filled with the spray solution standing for long periods.

When tank mixes are to be used, each product should be added separately to the spray tank, taking due note of any instructions given as to the order of mixing.

Wash out the sprayer thoroughly after use with a wetting agent or proprietary tank cleaner.

On emptying the container, rinse container thoroughly by using an integrated pressure rinsing device or manually rinsing three times.

## SOILS AND WEATHER CONDITIONS

A moist soil during and after the application is necessary to give the best results.

Do not apply to dry, cracked or waterlogged soils.

Speed of activity is usually dependent on temperature and growing conditions, then, activity can be slow under cool conditions.

Application should not be made to frosted crops: severe frosts following application may cause crop scorch.

## COMPATIBILITY

Contact ADAMA Agricultural Solutions UK Ltd for compatibility information on specific tank mixes.

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## COMPANY ADVISORY SECTION

*This section is not part of the Product Label under the Plant Protection Products Regulations and provides additional advice on product use at the discretion of ADAMA Agricultural Solutions UK Ltd.*

## DISCLAIMER/CONDITIONS OF SUPPLY

The specified properties of our products and the mode of application stated on this label have been established on the basis of research and experience. Products conform to specification at the time of delivery but, as we exercise no control over their subsequent storage, handling, mixing or use or the weather conditions before, during and after application, all of which may affect the performance of the products, no responsibility or liability will be accepted by us or our re-sellers for any failure in performance, damage or injury to person or property whatsoever arising from the storage, handling, application or use of the products. These conditions cannot be varied by our staff or agents whether or not they supervise or assist in or make recommendations concerning the use of such products. We recommend you contact your dealer to request advice on the suitability of this product for any new and/or unusual growing methods or for new varieties not listed on this label.

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