

**orion** AGRISCIENCE

**WARNING**

KEEP OUT OF REACH OF CHILDREN



**Align**<sup>TM</sup>

**PLANT GROWTH  
REGULATOR**



A growth regulator used to shorten and stiffen the straw of cereal crops to improve the resistance to lodging

**Active Ingredient:**

305 g/litre mepiquat chloride and 155 g/litre chlorethephon in the form of a soluble concentrate



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**5 Litres**

140 x 140mm (WxH)

## PLEASE READ THE LABEL COMPLETELY BEFORE USE

## HAZARD CLASSIFICATIONS:

**Corrosive to metals Category 1, Acute oral toxicity Category 4, Specific target organ toxicity (repeated exposure) Category 2, Hazardous to soil organisms, Hazardous to terrestrial vertebrates, Hazardous to the aquatic environment chronic Category 3**

**WARNING: CORROSIVE, ECOTOXIC**

Harmful if swallowed. May cause damage to organs through prolonged or repeated exposure. May be corrosive to metals. Harmful to aquatic life with long lasting effects. Toxic to the soil environment and terrestrial vertebrates.

**PRECAUTION****PERSONAL PROTECTION:**

Avoid contact with eyes and skin. Avoid inhalation of spray mist. When mixing or applying, wear overalls, boots, gloves, and eye protection. Clean protective clothing daily after work. Do not eat, drink or smoke while using. Remove protective clothing and wash hands and face thoroughly before meals and after work.

**STORAGE:**

Keep out of reach of children. Store in the original, tightly closed container, in a secure place away from foodstuffs. Storage of certain quantities of this product trigger specific storage requirements (Refer to Safety Note). When stored appropriately this product should show no significant degradation for two years from the date of manufacture. Contact your supplier for further information about the use of product that is older than this.

**DISPOSAL:**

Dispose of this product only by using in accordance with this label, or at a suitable landfill. Triple rinse container and add rinseate to the spray tank. Dispose of container to a suitable landfill or agricultural recycling scheme. Do not burn. Do not use container for any other purpose.

**ENVIRONMENTAL:**

Use this product carefully. Do not contaminate aquatic environments with product, spray drift or empty container. Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area.

**FIRST AID**

If medical advice is needed, have the product container or label at hand. If swallowed do not induce vomiting. If splashed in eyes, wash out immediately with running water for several minutes. If skin or hair contact occurs, remove contaminated clothing and wash with soap and running water. If inhaled, immediately move to fresh air and rest. Maintain half upright position if breathing is difficult. Call the National Poisons Centre **0800 POISON (0800 764 766)** (24 hrs) or a doctor immediately for advice.

**EMERGENCY RESPONSE**

In a transport emergency call **111, Police or Fire Brigade**. For specialist advice in an emergency only, call **0800 CHEMCALL (0800 243 6225)** (24 hrs).

**SPILLAGE**

Exclude non-essential people from the area. Wear protective clothing and prevent material from entering waterways. Absorb spill with inert material such as soil, sand, etc, and place in a waste container. Wash area with water and detergent, and absorb with further inert material. Dispose of safely to a suitable landfill.

**SAFETY DATA SHEET**

Additional information is provided in the safety data sheet. Freephone **0800 ORIONAS (0800 674 6627)** or visit [www.orionagriscience.co.nz](http://www.orionagriscience.co.nz)

**GENERAL INFORMATION**

Align reduces the risk of lodging in vigorous crops, susceptible cultivars, high nitrogen use situations and in field situations where there is a history of lodging. Early treatment provides greater protection from stem lodging, whereas later applications reduce yield losses caused by stem and neck breaking.

**Ingredients:** Align contains 305 g/litre mepliquat chloride and 155 g/litre chlorethephon as the active ingredients, and up to 14 g/L of acetic acid.

**CAUTION:**

To work effectively, crops to be treated should be actively growing and free of stress caused by nutrient or moisture deficiency. Do NOT apply when temperatures are above 21°C, or to crops suffering damage or physical stress from frost, hail or herbicide damage. Secondary tillering may be a problem in treated crops, especially in situations where the application has been made early followed by a period of stress. This may have implications, especially in crops grown for malting barley, or in other situations where a bold sample of grain is required.

Batch No:

Date of manufacture:

**DIRECTIONS FOR USE**

Apply with well-maintained and calibrated spray equipment.

**It is an offence for users of this product to cause residues exceeding the relevant MRL in the Food Notice: Maximum Residue Levels for Agricultural Compounds**

**It is an offence to use this product on animals.**

Crop	Rates per Hectare	Critical Comments
Autumn Sown Barley, Ryecorn and Triticale	1.0 - 1.5 litres in 200 litres of water.  Always add 25 ml/100 litres water of Synergy™ Wetter Sticker.	Apply from Zadoks GS 37 (flag leaf visible) through until GS 49 (first awns visible). Use the higher rate where the risk of lodging or straw and neck breaking is high.
Spring Sown Barley	1.0 - 1.5 litres in 200 litres of water.  Always add 25 ml/100 litres water of Synergy™ Wetter Sticker.	Apply to stress free crops from Zadoks GS 39 (flag leaf ligule visible) through until GS 49 (first awns visible). Use the higher rate where the risk of lodging or straw and neck break is high. Use the low rate in malting barley, only in situations when the crop is free from stress.

**APPLICATION METHODS**

Obtain uniform spray coverage using conventional ground boom sprayer and aerial equipment. Flush equipment thoroughly with clean water after use.

**MIXING**

When used in a mixture always add Align to the spray tank last. Use spray solution immediately. Where water has a high pH, or water containing calcium salts cannot be avoided, the addition of a product such as Synergy pH Buffer is recommended to reduce chemical deactivation and hydrolysis.

**COMPATIBILITY**

May be tank mixed with most commonly used insecticides and fungicides. Do not mix with herbicides.

**RAINFALL**

Do not apply if rain is expected within 6 hours of spraying, or if the crop is wet, or frost is expected.

**WARRANTY**

This formulation is warranted to contain the specified active ingredient within accepted analytical tolerance when packed. The user bears the risk for damage resulting from factors beyond the manufacturer's control. The manufacturer declines all liability for damage resulting from improper storage or use of the product.

Registered pursuant to the ACVM Act 1997, No. P5989

See [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz) for registration conditions.

Approved pursuant to the HSNO Act 1996, No. HSRO00806

See [www.epa.govt.nz](http://www.epa.govt.nz) for approval controls.

TM ALIGN and SYNERGY are Trade Marks of Orion AgriScience Ltd.

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**0800 674 6627**[www.orionagriscience.co.nz](http://www.orionagriscience.co.nz)**UN 3285****CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (CHLORETHEPHON 15%)****PACKING GROUP III****HAZCHEM CODE 2X****ADDITIONAL INFORMATION: CORROSIVE TO ALUMINIUM****IN A TRANSPORT EMERGENCY, DIAL 111 POLICE OR FIRE BRIGADE.****FOR SPECIALIST ADVICE IN AN EMERGENCY CALL 0800 CHEMCALL (0800 243 622)**

ALIGN