

**CORROSIVE
DANGER – KEEP OUT OF REACH OF CHILDREN. ECOTOXIC**


ravensdown

PLANT GROWTH REGULATOR

Holdup

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

ACTIVE INGREDIENT:

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



Registrant: Ravensdown Ltd

292 Main South Road
Hornby, Christchurch 8042
New Zealand
Phone: 03 353 4600

ravensdown.co.nz

BATCH:

D.O.M:

**NET CONTENTS
20 Litres**

ravensdown 

HOLDUP | READ LABEL CAREFULLY BEFORE USING



This product must not be used for any purpose, or in any manner, contrary to the label unless authorised under appropriate legislation.

HAZARD CLASSIFICATION: 6.1D, 6.9B, 8.1A, 9.1C, 9.2B, 9.3B

TOXICITY

Harmful - Harmful if swallowed. May cause organ damage from repeated oral exposure at high doses.

Corrosive - Warning, this product may be corrosive to metal (aluminium).

ECOTOXICITY

Harmful to aquatic organisms. Avoid contamination of any water supply with chemical or empty container. Do not apply directly into or onto water. **Toxic to the soil environment.** **Toxic to terrestrial vertebrates.**

HANDLING PRECAUTIONS

STORAGE

Keep out of reach of children. Store in accordance with NZS 8409 Management of Agrichemicals. Store in original container tightly closed in a locked, dry, cool, well ventilated area away from foodstuffs, fertilisers and seeds. Stores containing 1000L of HOLDUP are subject to signage and secondary containment. More than 1000L require emergency response plans.

PERSONAL PROTECTION

Avoid contact with skin and eyes and do not inhale spray mist. When handling wear protective clothing such as impervious gloves, eye protection, overalls and boots. Wash splashes of concentrate from skin and eyes immediately. Remove protective clothing and wash hands and face thoroughly before meals and after work. Do not eat, drink or smoke while using.

EQUIPMENT

Apply using well maintained and accurately calibrated equipment. Flush equipment thoroughly with clean water after use.

RECORD KEEPING

Records of use as described in NZS 8409 Management of Agrichemicals must be kept.

DISPOSAL

Triple rinse container and add rinsate to spray tank. Triple rinsed containers containing the Agrecovery logo on the label and that are free of all residues and have an intact legible label may be taken to an Agrecovery collection site for disposal. Otherwise crush or puncture and bury in an approved landfill. Do not burn container. Do not use container for any other purpose. Dispose of product only by using according to label directions or dispose of safely at a managed landfill.

DIRECTIONS FOR USE

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.

Crop	Rate per hectare	Critical comments
Autumn sown barley, ryecorn and triticale	1-1.5L/ha in 200L of water. Always add 25ml/100L of water of Widespread 1000 non-ionic wetter.	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	1-1.5L/ha in 200L of water. Always add 25ml/100L of water of Widespread 1000 non-ionic wetter.	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.

FIRST AID

If medical advice is needed, have product container or label at hand. If swallowed, DO NOT induce vomiting. If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If contact with eyes occurs wash out immediately with running water for several minutes. If inhaled, move the patient to fresh air immediately. Begin artificial respiration if breathing has stopped. For advice, contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor if you feel unwell.

SPILLAGE

In case of spillage, wear appropriate protective clothing and prevent material from entering waterways. Exclude non-essential people from the area. Contain liquid spills and absorb with inert material such as soil or sand and place in waste containers. Wash area with water and absorb with further inert material. Dispose of waste safely in an approved landfill.

EMERGENCY RESPONSE

In transport emergency call 111, Police or Fire Brigade. For 24hr specialist advice in an emergency only call **0800 CHEMICAL (0800 243 622)**.

SAFETY DATA SHEET

If additional safety information is required, refer to the Safety Data Sheet. For a copy, contact the customer centre on 0800 100 123.

TRANSPORT

Do not carry this product on a passenger service vehicle.

SHelf LIFE

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 any product that is older than this.

GENERAL DIRECTIONS

Before opening, carefully read warning statement, precautions instructions, first aid instructions and directions for use. HOLDUP 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 where as later applications reduce yield losses caused by stem and neck breaking. Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area.

APPLICATION

Obtain uniform spray coverage using conventional ground boom sprayer and aerial equipment.

MIXING

When used in mixture always add HOLDUP to the spray tank last. Use spray solution immediately. Flush equipment thoroughly with clean water following use.

COMPATIBILITY

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

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 and 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.

RAINFALL

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

WARRANTY AND LIMITATION

IMPORTANT: Read this notice before opening the container.

The registrant warrants that when packed the active ingredient of this product is as specified on this label within accepted analytical tolerances. The registrant gives only those other warranties that are required by law in relation to this product and limits its liability to the cost paid by the claimant for the product. The registrant declines all liability for damage resulting from the handling, storage or use of this product. The user bears the risk from the handling, storage or use of this product. The registrant is not liable for any use of this product which is contrary to the label directions given or any Act or Regulation.

Registered pursuant to the ACVM Act 1997, No.P7071. See www.foodsafety.govt.nz for registration conditions. Approved pursuant to the HSNO Act 1996, Code: HSR000806. See www.epa.govt.nz for approval controls.

Agrecovery is available on plastic containers up to 60L and for plastic or steel large drums from 61L - 1000L.

PHONE **0800 100 123**

 **AGRECOVERY**
www.agrecovery.co.nz