

**WARNING**

KEEP OUT OF REACH OF CHILDREN  
READ LABEL BEFORE USE

**Terpal<sup>®</sup>**

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

**GROUP 7 FUNGICIDE**

A growth regulator to improve the resistance of Barley,  
Ryecorn and Triticale to lodging

Contents: 5L

Registered to and distributed by:

**BASF New Zealand Limited**

NZBN 9429032151299

P.O. Box 407, Auckland 1140

Phone: 0800 932 273

[crop-solutions.basf.co.nz](http://crop-solutions.basf.co.nz)

### Hazard Classification

6.1D, 6.9B, 8.1A, 9.1C, 9.2B, 9.3B



### WARNING

Harmful if swallowed. May cause kidney and nervous system damage through prolonged or repeated oral exposure at high doses. May be corrosive to metals. Harmful to aquatic life with long lasting effects. Toxic to the soil environment. Toxic to terrestrial vertebrates.

### PRECAUTIONS

**HANDLING:** DO NOT handle until all safety precautions have been read and understood. To avoid risks to man and the environment, comply with instructions for use. Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area.

**STORAGE:** Store in original container, tightly closed, away from foodstuffs and animal feeds. Keep locked up. Keep away from heat and protect from direct sunlight. Store in a frost-free store and protect from temperatures above 40°C. Stores containing more than 1000 litres of this product require emergency response plans and secondary containment systems, and are subject to signage.

**TRANSPORT:** DO NOT carry this product on a passenger service vehicle.

**SPILLAGE:** Absorb spillage to prevent material damage. Prevent further spillage and product from entering waterways. Wear overalls, gloves, footwear and goggles. Absorb spill with an inert absorbent material (e.g. vermiculite) and place in sealable container for disposal. Wash affected area with water and detergent. Absorb and collect washings and place in the same sealable container as the spilled material. Dispose of the waste safely in suitable landfill.

**PERSONAL PROTECTION:** When mixing or applying, wear cotton overalls buttoned to the neck and wrist, a washable hat, suitable protective gloves, frame goggles and face protection.

**GENERAL SAFETY AND HYGIENE MEASURES:** Avoid contact with skin and eyes. DO NOT breathe spray mist. Wash splashes of concentrate from skin immediately. DO NOT eat, drink or smoke when using this product. Remove protective clothing and wash hands and exposed skin thoroughly with soap and water before meals and after work. Wash protective clothing immediately after use. Store work clothing separately.

**USE AND ENVIRONMENTAL PROTECTION:** Remove stock from target area and observe withholding periods. Apply with well-maintained and accurately calibrated equipment. DO NOT store or use in equipment with aluminium fittings. DO NOT spray over, or allow drift over, surface water such as ponds, waterways or drains. DO NOT allow spray drift outside the target area to occur. Clean out application equipment thoroughly after use. DO NOT contaminate water when disposing of equipment wash waters.

**NOTE:** Storage and application must be as described in the current version of the New Zealand Standard for the Management of Agrichemicals NZS8409.

**DISPOSAL:** Container: Triple rinse empty container and add rinsate to the spray tank. Recycle through Agrecovery (0800 247 326, [www.agrecovery.co.nz](http://www.agrecovery.co.nz)). Product: Dispose of this product only by using according to the label or at an approved landfill. DO NOT burn product. DO NOT contaminate any water supply with product or used container.

### FIRST AID

If medical advice is needed, have product container or label at hand. If exposed or concerned get medical advice/attention. IF SWALLOWED: DO NOT induce vomiting. Rinse mouth. For advice contact the National Poisons Centre 0800 POISONS (0800 764 766) or a doctor immediately. IF ON SKIN: Remove contaminated clothing and wash skin with plenty of soap and water. DO NOT scrub the skin. If skin irritation or rash occurs, get medical advice/attention. Wash contaminated clothing before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

### CONDITIONS OF SUPPLY

Read conditions of supply before buying and using. If these conditions are unacceptable, return at once unopened. All goods supplied by BASF New Zealand Limited are of a high grade and conform to the chemical description of the label. However, to the extent permitted by law, neither BASF nor any of its Distributors accept any liability or responsibility whatsoever for any loss, damage or injury whether direct, indirect or consequential howsoever arising in connection with the supply of those goods including without limitation their storage, application, handling or use. BASF New Zealand Limited nor any of its Distributors, make no warranties of any kind, express or implied, with respect to fitness for purpose (including crop injury, ineffectiveness or any other unintended consequence), merchantable quality or any other matter with respect to these goods. When you are a consumer as defined in the Consumer Guarantees Act 1993 (the "Act") these conditions will be subject to the provisions of the Act. However, the Act will not apply to goods supplied to you for business purposes.

Registered pursuant to the ACVM Act 1997, No. P3483

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

Approved pursuant to the HSNO Act 1996, Code HSR000806

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

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**EMERGENCY PHONELINK**  
24 Hour Advice in an Emergency Only  
**0800 944 955**



**IIIIII BAR CODE IIIIII**

## GENERAL INFORMATION

TERPAL is a plant growth regulator, which shortens and stiffens straw of barley, rye and triticale. TERPAL is mainly taken up through the green parts of plants. TERPAL should only be applied to vigorously growing crops, which have an adequate supply of nutrient and moisture, and which are free from any stress prior to and following treatment.

Optimum results are obtained when TERPAL is applied during the recommended stages of crop development. The main effect is to shorten and thicken the stem between internodes, on those parts that are undergoing stem elongation at, or following, treatment. Early treatment therefore provides the greatest protection against basal lodging, and later treatments are more effective at reducing straw and neck break. TERPAL is suited for application by ground or aerial spraying.

Advantages of treatment:

1. TERPAL improves the resistance of vigorous crops, to lodging.
2. Yield losses associated with lodging, straw and neck break are reduced.
3. Harvest is made easier.
4. Fertiliser inputs can be aimed at optimum yields, rather than be limited, to avoid lodging.
5. Tall growing, high yielding cultivars may be grown in high fertility areas, where lodging would normally preclude their use.

## Zadok's Decimal Code Growth Stages



37

GS 37 – Flag leaf just visible

39

GS 39 – Flag leaf ligule just visible

49

GS 49 – First awns visible

## DIRECTIONS FOR USE

### CAUTION

- DO NOT apply TERPAL if rain or frost is expected, nor if the crop is wet.
- Avoid spray drift on to neighbouring crops.
- DO NOT apply TERPAL to crops on soils of low fertility, unless fertiliser and moisture are made available to the crop.
- DO NOT use on crops on light soils that are likely to suffer from moisture stress.
- DO NOT apply TERPAL at temperatures above 21°C.
- DO NOT apply to crops suffering damage or physical stress, e.g. frost, hail or herbicide damage, water logging, drought or nutrient stress.

Crop	Rate	Growth Stage	Remarks
Autumn Barley Ryecorn Triticale	1.0 -1.5 litres per hectare in approx. 200 litres of water	Zadoks GS 37-49 Flag leaf just visible to first awns just visible <b>on the majority</b> of tillers	Use the higher rate where lodging/ straw and neck break pressure is high. Early application will give greater lodging control. Later sprays give better straw and neck break control.
Spring Barley	1.0 -1.5 litres per hectare in approx. 200 litres of water	Zadoks GS 39-49 Flag leaf ligule just visible to first awns visible <b>on the majority</b> of tillers	Use the higher rates on stress free crops, where lodging/straw and neck break pressure is high.
Triumph Barley	1.0 litre per hectare in approx. 200 litres of water	Zadoks GS 49 First awns visible <b>on the majority</b> of tillers	To prevent neck break. Use only on healthy crops. Avoid use on crops with uneven tiller development.
The addition of a suitable non-ionic surfactant is recommended			

**Notes:**

1. Secondary tillering may be pronounced in the wheel tracks where ground spray equipment is used in the absence of tramlines.
2. Secondary tillering may be induced by early treatment and this effect will be more noticeable on crops that come under stress following treatment, or in crops growing on light soils.
3. TERPAL may be applied to crops under sown with clovers.

**Mixing:**

Add the required amount of TERPAL to the partly filled spray tank with agitation running. Complete filling the spray tank. Maintain agitation during application.

**Compatibility:**

TERPAL may be applied in tank mixture with commonly applied insecticides, fungicides and Foliar Nitrophoska. When used in mixture, add TERPAL last to the spray tank and use immediately. DO NOT mix with herbicides.

**Withholding Period:**

**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.**