

**WARNING**

KEEP OUT OF REACH OF CHILDREN  
READ LABEL BEFORE USE

**Pulsar<sup>®</sup>****Herbicide**

Contains 200 g/litre bentazone and 200 g/litre MCPB  
as the sodium salts in the form of a soluble concentrate.

**GROUP 6 | 4 HERBICIDES**

Selective post-emergence herbicide for use in  
new pastures, peas, clover and cereals

Contents: 10 L

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)





### WARNING

Causes serious eye irritation. May cause an allergic skin reaction. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects. Hazardous to soil organisms.

### PRECAUTIONS

**HANDLING:** Obtain special instructions before use. DO NOT handle until all safety precautions have been read and understood. Use personal protective equipment as required.

**STORAGE:** Store locked up. Store in original container tightly closed and in a dry, well-ventilated area away from foodstuffs. Stores containing 1000 litres or more require emergency response plans and secondary containment systems and are subject to signage.

**TRANSPORT:** DO NOT carry more than 1 L of this product on a passenger service vehicle.

**SPILLAGE:** Collect spillage. Prevent further spillage and spilled product from entering waterways. Wear coveralls, gloves, footwear and facemask or goggles to clean up spill. 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 at a suitable landfill.

**PERSONAL PROTECTION:** When mixing or applying wear protective clothing, such as; coveralls, a washable hat, waterproof gloves, and eye/face protection.

**GENERAL SAFETY AND HYGIENE MEASURES:** Avoid contact with eyes and skin. DO NOT breathe spray mist. DO NOT eat, drink, or smoke while using. Remove protective clothing and wash hands and exposed skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Wash and store work clothing separately.

**USE AND ENVIRONMENTAL PROTECTION:** DO NOT apply directly into or onto water. Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area. This substance must be applied by ground-based methods only. Apply with well-maintained and accurately calibrated spray equipment. 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. Very toxic to some plant species (selective herbicide). Toxic to the soil environment.

**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 contaminate any water supply with product or empty container.



### FIRST AID

If exposed, concerned, or feel unwell, get medical advice/attention. If medical advice is needed, have the product container or label at hand. IF ON SKIN: Wash with plenty of soap and water. DO NOT scrub the skin. If skin irritation or rash occurs, get medical advice/attention. 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.

For advice contact the National Poisons Centre 0800 POISONS (0800 764 766) or a doctor.

### 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. P004961

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

Approved pursuant to the HSNO Act 1996, Code HSR000374

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**



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## GENERAL INFORMATION

PULSAR is a selective herbicide with contact and systemic activity for the control of a wide range of broadleaf weeds in cereals, clover, new pasture and peas. PULSAR must be applied with sufficient water to ensure that all parts of target weeds are thoroughly covered. PULSAR is not active in the soil, so weeds must have germinated before spraying (post emergence).

## RESISTANCE MANAGEMENT

PULSAR contains bentazone, a benzothiadiazinone herbicide with inhibition of photosynthesis at photosystem II mode of action, **GROUP 6 HERBICIDE**, and MCPB, a herbicide from the phenoxy-carboxylic-acid family with an indole acetic acid (synthetic auxins) mode of action, **GROUP 4 HERBICIDE**. Weeds resistant to bentazone and other Group 6 herbicides, and to MCPB and other Group 4 herbicides, could eventually dominate from excessive use of these herbicides. To minimise this risk, use strictly in accordance with label instructions. PULSAR should be used in a programme that incorporates effective herbicide products with different modes of action. Refer to the NZCPR web site < [www.resistance.nzpps.org](http://www.resistance.nzpps.org) > for more detailed information.

## WEEDS CONTROLLED

### Susceptible weeds as seedlings include:

Black nightshade	Fathen	Redroot	Thorn apple
Buttercups (annual)	Field madder	Scarlet pimpernel	Twin cress
Chamomiles	Galinsoga	Scotch thistle	Variegated thistle
Charlock	Hedge mustard	Shepherds purse	Wetted thistle
Chickweed	Mayweeds	Sow thistle	Wild radish
Cleavers	Nettle	Spurrey	Wild turnip
Cornbind	Nodding thistle	Stinking mayweed	Willow weed
Cut-leaved geranium	Penny cress	Storksbill	Winged thistle

### Moderately susceptible weeds include:

Seeding docks	Wireweed	Fumitory
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### Resistant weeds include:

All grasses	Dead nettle	Hawkbit	Sorrel
Clovers	Deep rooted perennials	Hawksbeard	Speedwells
Dandelion	Field pansy	Henbit	Yarrow

## DIRECTIONS FOR USE

**BEWARE:** APPLY THIS PRODUCT CAREFULLY. SPRAY DRIFT MAY CAUSE SERIOUS DAMAGE TO OTHER DESIRABLE PLANTS.

**RESTRAINT:** DO NOT apply if rain or frost is expected, or if the foliage is wet.

**NOTES:** Use high water rates (minimum rates specified). Low volume CDA application techniques are not recommended.

Best results are obtained from applications made after the onset of a prolonged period (more than 3 days) of warm, humid weather.

Best results are obtained if applications are made to immature weeds (2-4 leaf) rather than more mature plants.



Crop	Timing	Rate	Remarks
Cereals	After crop has 4 true leaves and when weeds are small.	5.0 litres/ha in 170-500 litres of water.	PULSAR may be used on crops under sown with clover. DO NOT use PULSAR on crops undersown with Lucerne. Add a suitable non-ionic surfactant.
New and established pasture	When clover has 1-2 trifoliolate (true) leaves and weeds are at 4-6 leaf stage.	5.0-7.5 litres/ha in 300-500 litres of water.	Add a suitable non-ionic surfactant.
Peas	When crop has 1-2 trifoliolate leaves and weeds are at 4 leaf stage.	5.0 litres/ha in 300-500 litres of water.	DO NOT use a spreader/sticker.
White clover seed crops	In spring before crop flowers but after 2 trifoliolate leaves have formed and when weeds are small.	5.0-6.0 litres/ha in a minimum of 500 litres water.	<ol style="list-style-type: none"> <li>1. Use high water rates and large droplets to ensure penetration into growth crown of weeds.</li> <li>2. Add a suitable non-ionic surfactant.</li> <li>3. Paraquat, applied at least two weeks before PULSAR treatment will improve results provided weeds are actively growing at the time of PULSAR treatment.</li> <li>4. Spraying during periods of warm weather gives best results.</li> </ol>

#### 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.

#### MIXING

Add the required amount directly into the partly filled spray tank with agitation running. Complete filling and maintain agitation until spraying is complete.

#### COMPATIBILITY

Wetting agent should not be added unless specified. DO NOT apply PULSAR with any other crop protection agent or fertiliser.

#### RAINFALL

At least 8 hours should elapse after application before rainfall or irrigation.

#### MANAGEMENT CONSIDERATIONS

After treatment poisonous plants may become palatable and livestock should be kept out of the area until plants have died down.

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