Pulsar®
Herbicide

FACT SHEET

Performance where it matters. Tough on weeds, gentle on clover.

Pulsar is a selective post-emergent herbicide that controls a wide range of broadleaf weeds in cereals, new and old pasture, clover, and peas. Pulsar controls phenoxy-resistant thistles and chickweed resistant to flumetsulam and chlorsulfuron.

- Dependable tried and true formulation
- Combined power of two active ingredients – stopping photosynthesis interfering with cell division
- Controls chickweed resistant to flumetsulam and chlorsulfuron (ALS-inhibitor herbicides)
- Contact and systemic activity
- Provides broad spectrum weed control
- Not soil active – no plant-back worries

Active ingredients

Bentazone 200 g/L
MCPB 200 g/L in a
SC formulation

Mode of Action Groups

Group 6 Inhibition of photosynthesis at PSII
Group 4 Auxin mimic

Crops

Cereals
New and established pasture
Peas
White clover seed crops

WEEDS CONTROLLED			
Susceptible weeds as seedlings include			
Black nightshade	Fathen	Redroot	Thorn apple
Buttercup (annual)	Field madder	Scarlet pimpernel	Twin cress
Chamomiles	Galinsoga	Scotch thistle	Variegated thistle
Charlock	Hedge mustard	Shepherds purse	Welted 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			
Seedling docks	Wireweed	Fumitory	
Resistant weeds include			
All grasses	Dead nettle	Hawkbit	Sorrel
Clovers	Deep rooted perennials	Hawksbeard	Speedwells
Dandelion	Field pansy	Henbit	Yarrow

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How and when to use Pulsar

Use the recommended water rate to get good coverage of weeds.
Only use a non-ionic surfactant (NIS) if recommended.

Crop	Rates	Growth stage	Remarks
New and established pasture	5-7.5 L/ha in 300-500 L water/ha	Clover 1-2 true leaves Weeds 6-8 true leaves	Add a suitable NIS Do not apply if frost forecast
Peas	5-7.5 L/ha in 300-500 L water/ha	1-2 true leaves Weeds 4-6 true leaves	Do not use adjuvant Do not apply in frost
White clover seed crops	5-6 L/ha Min. 500 L water/ha	In spring, before the crop flowers, but after 2 true leaves have formed and when weeds are small	1. High water rates and large droplets to ensure penetration into growth crown of weeds 2. Add a suitable NIS 3. Apply during periods of warm weather 4. Do not apply if frost expected
Cereals	5 L/ha in 170-500 water/ha	After 4 true leaves and when weeds are small	Add a suitable NIS Do not apply if frost expected

For the best results apply Pulsar:

- To actively growing small weeds (2-4 true leaves)
- During periods of warm, humid weather (ambient temps of >14˚C for 6 hours after application)
- **Do NOT** apply in cold or frosty weather (or in times of drought)
- **Do NOT** apply if rainfall is expected or the foliage is wet (minimum 8 hours free from rain/irrigation)

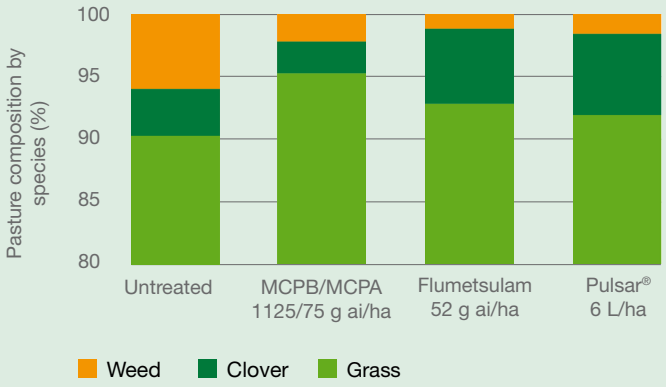
Resistance management

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** for more detailed information.

Effect of herbicide choice on pasture composition

Assessed 108 days after planting and 71 days after herbicide application (clover @ 2 trifoliate leaf)



There is more “grass” and less “weeds” in the pasture sward following any herbicide use, but choice of product can further enhance clover levels in the sward.

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