

# DIRECTOR™ CS

Offers early weed control minimising competition with emerging brassica, vegetable and fodder beet crops



Nufarm

Grow a better tomorrow.

Forage brassica and fodder beet crops play a key role in feeding all classes of livestock throughout New Zealand every year. Use of pre-emergent herbicides eliminates weed competition in the critical early stages of crop growth, allowing crop seedlings to get off to the right start and maximising the opportunity for crops to reach optimal yields.

Director™ CS is a low-volatile clomazone herbicide for pre-emergent control of difficult weeds such as shepherd's purse, wireweed, chickweed and cleavers in a range of brassica, vegetable and fodder beet crops. When used with the right partner herbicide at spray out or before crop emergence, Director CS can eliminate the need for post emergence herbicide applications, saving time and money, and improving crop yield.

#### **Robust formulation**

Director CS contains 360g/L clomazone in a robust capsule suspension formulation that offers greatly reduced volatility compared to some other formulations, without affecting efficacy. The micro encapsulation technology in Director CS surrounds the active particles with an inactive carrier which is activated by moisture. Director CS can remain effective in the root zone and activate 4-6 weeks later depending on moisture availability.

#### **Mode of action**

Director CS is absorbed by the roots and emerging shoots of germinating weeds. It inhibits the biosynthesis of photosynthetic pigments causing bleaching in susceptible weed species. Susceptible weeds may emerge but are bleached white and plant death occurs shortly afterwards.

#### **FEATURES OF DIRECTOR CS**

- > **Controls early weed pressure to minimise competition with emerging crop.**
- > **Capsule suspension formulation greatly reduces volatility and improves crop safety.**
- > **Can be tank mixed with other pre-emergent herbicides to widen spectrum of weeds controlled.**
- > **Has both root and shoot activity.**

**DIRECTOR**  
CS



**If not controlled weeds will compete for space and nutrients**

## WEEDS CONTROLLED

Director CS will control a wide range of weeds including:

Susceptible*		Moderately susceptible	Not susceptible
Barnyard grass	Cleavers	Black nightshade	Clovers
Chickweed	Cornbind	Fathen (if moisture available)	Docks
Henbit	Groundsel	Fumitory	Field pansy
Shepherd's purse	Portulaca	Mallows	Mayweeds
Sow thistle	Speedwells	Redroot	Oxalis
Summer grass		Spurrey	
Twincross		Willow weed	
Wireweed		Yarrow	

\*Subject to rate, soil type, and adequate moisture

Susceptible weeds will not be controlled if they:

- > Have emerged before treatment.
- > Are growing from an old root system.
- > Emerge through untreated soil such as open drill slots or from underneath soil clods.



## POWERFUL REWARDS FOR LOYALTY TO NUFARM

Every purchase of Director CS earns you valuable reward points in Priority Partnership®, the rewards programme for New Zealand farmers. If you are not a member yet find out more at [www.prioritypartnership.co.nz](http://www.prioritypartnership.co.nz)



## DIRECTIONS FOR USE

<b>Forage and seed brassicas, kale, swede forage and oil rape and spring and summer sown turnips and turnip related crops (eg Pasja):</b>		
<b>Crop</b>	<b>Rate/HA</b>	<b>Notes</b>
Direct drilled	250-330ml	To enhance crop establishment and reduce the need for post emergence herbicide treatments, add to the last WeedMaster® TS540 treatment before sowing. Moisture after application is critical to activate Director CS. Soil type and the availability of moisture will affect the degree of weed control. A post emergence herbicide may be required.
Drilled-cultivated ground	250-330ml	Ensure that the seedbed is moist, firm and free from clods. Apply after drilling and before crop emergence in combination with a suitable partner. Rainfall or irrigation after treatment will improve control.
Pre-plant soil incorporated	400ml	Apply in mixture with trifluralin and incorporate before drilling. Ensure even incorporation using a Dutch harrow or discs set to a fine cut. Avoid sprayer overlaps.
Ridged seed bed	400ml	Application of pre-emergent herbicides prior to ridging is common practice, but results in very uneven distribution of the herbicides between and within the ridges. Poor and patchy weed control can result. If this method is adopted, use of a Cambridge roller to compact the ridge tops is recommended to optimize soil moisture retention and reduce aerated soil conditions. Best practice: apply pre-emergent after ridging. Apply in combination with a suitable partner (eg Frontier®-P, trifluralin) as soon as possible following ridging of the crop and before crop and weed emergence. Use of a Cambridge roller to compact ridge tops is recommended before herbicide application. To improve evenness of coverage, adjust spray boom to ensure that the nozzle overlap is focused at the top of the ridged soil.
Surface-seeding forage and oilseed rape	250-330ml	To reduce post emergence weed pressure Director CS may be applied before seed is broadcast. Seed may be sown once spray has dried. Adding WeedMaster TS540 is recommended to control established growth. Moisture (13mm) is required to activate Director CS and to promote seed germination.

Do NOT use on mustard.

<b>Fodder beet:</b>		
Fodder beet	150-200ml	Apply before emergence of the crop and weeds. Use the high rate on heavier soils. Refer to label for more information. May be tank mixed with ethofumesate or other pre-emergent herbicides. Follow up with a post emergence programme.

For other crops including carrots, peas, pumpkin, buttercup squash, potatoes, dwarf green beans and vegetable brassicas please refer to the Director CS label.

## USE PATTERN

Soil moisture is required to activate Director CS. On dry soils a minimum of 13mm rainfall or irrigation is required for optimum weed control.

### Soil Type:

Very light soils (CEC<10): - do not use Director CS

Heavy soils (CEC>20): use the highest rate

Very heavy soils (CEC>30): efficacy may be reduced

Crop	Use	
All vegetable crops	Pre-emergence post sowing	
Fodder beet	Pre-emergence post sowing	
Forage brassicas	Direct drill	Apply with final WeedMaster TS540
	Oversowing hill country	Apply before broadcasting seed
	Cultivated seedbed	Apply after sowing
	Ridged crops	Apply after ridging

## CROP ROTATION AND PLANT BACK INTERVALS

In the event of a crop failure, deep plough the land before replanting any crops and refer to the label for crops that can be safely planted. Do not reapply Director CS.

When used on light soils, especially under minimum tillage and dry conditions, Director CS may persist in the soil for several months. Deep ploughing, if practical, is recommended before re-cropping. If this is not practical, avoid planting annual crop species such as cereals, sweetcorn, maize or annual ryegrass following the crop which has been treated with Director CS. The presence of residues will show up as whitening on broadleaf weed species. If these symptoms are present sow a crop recommended on the label, or sow a small area of the intended crop to test for negative effects before any major planting.

Amount of Director CS applied	Plant back interval
250-330ml/ha	Any crop on the label can be replanted immediately
660ml-1L/ha	Replant only with cucurbits or legumes within 4 months of application

## CROP BLEACHING

Some off-target whitening of the crop can occur under certain conditions. Any damage is limited to the first two true leaves; the crop will rapidly recover and under normal growing conditions there will be no effect on overall growth and crop yield. Factors which increase the likelihood of crop bleaching include high rainfall, extremely light soils, compacted/water logged soil, stressed plants, spray overlaps and cold, wet, slow growing conditions.



**ALWAYS FOLLOW  
LABEL DIRECTIONS**



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