

# Authority<sup>SC</sup><sup>®1</sup>

## Judgement Day for Difficult Weeds

Pre-emergence herbicide for certain broadleaved and grass weeds in Pumpkin, Buttercup Squash and Potatoes.

### Features;

- Outstanding pre-emergence weed control
- Long residual life
- Broad spectrum activity including Amaranthus, Black Nightshade, Willow weed
- Ideal tank mix partner  
Squash - Magister<sup>®</sup> or Frontier<sup>®</sup>  
Potatoes - Magister<sup>®</sup>, Linflo<sup>®</sup> or Sencor<sup>®</sup>

### Mode of Action;

- Principally pre emergent activity - Taken up via plant roots.
- Weeds will emerge and then turn necrotic soon after exposure to light.
- Some activity on small emerged weeds.

### Benefits:

- ✓ Long term weed control
- ✓ Can eliminate hand weeding in squash
- ✓ Control of tough weeds including Nightshades, Nutgrass etc
- ✓ Unique new chemistry

Hand weeded

AUTHORITY SC strip spray foreground,

FMC

Elliott<sup>®</sup>

# Authority<sup>SC</sup>

## GETTING THE BEST OUT OF

## 480:

- **Select the correct rate for the soil type**
- **Apply pre-emergent** of crop and weeds in cucurbits and post molding in Potatoes. May be tankmixed with a suitable knockdown herbicide to control emerged weeds, eg: Roundup®
- **Consider Pre Plant Soil Incorporation** for Pumpkins and Squash if dry conditions are likely.
- **Authority** requires moisture to activate. Ensure irrigation or rainfall following application.
- **Add** an appropriate tank mix partner to control a wider range of weeds;
  - Squash/Pumpkins; Magister® or Frontier®
  - Potatoes; Magister®, Linflo®, Sencor® etc
- **Rates;** Use the lower rate during periods of cool, moist conditions as crop selectivity can be affected if crop growth is slowed by weather. Use lower rate on lighter soils
- **Soil Types;** Authority has been trialed in NZ and used commercially for 3 years with no crop damage or following crop effects on soils with CEC values over 20. However overseas information suggests that soil residual activity is longer on lighter soils of lower CEC values and following crops may be affected. **To avoid plantback / following crop issues, do not use on soils with a CEC value of less than 15 unless testing has demonstrated safety on following crops.**
- **Do not use** on sandy soils. As soil types vary widely in NZ, not all soil types have been tested. Treat a small area before widespread use.
- **Following Crops;** USA experience has shown some crop effects when Authority is used on low CEC value soils. The NZ label reflects the USA restrictions on plant back interval but NZ experience is demonstrated in the following trial results.

NZ Following crop trial (ref 1009 Geelen) Hawkes Bay 2002,  
Soil Type: Class 14 Hastings Clay Loam, CEC 25

CROP	Plant Back (6 Months)	Plant Back (12 Months)
Lettuce (transplant)	✓✓	✓✓
Onion	✓✓	✓✓
RyeGrass	✓✓	✓✓
Cabbage (transplant)	Not Tested	✓✓
Bean, Pea, Beetroot, Potato, Barley, Tomato (transplant)	Not Tested	✓✓
Sweetcorn	Not Tested	✓ (showed initial crop suppression)

✓✓ = no crop effects. ✓ = slight suppression. Cross = X crop damage or death

SUSCEPTIBLE WEEDS	MODERATELY SUSCEPTIBLE	RESISTANT
Amaranthus	Barnyard grass	Dandelion
Buttercup	Crab grass	Most Perennials
Black Nightshade	Crowsfoot grass	
Fat Hen	Sea Radish	
Narrow Leaved Plantain	Redroot	
Purple Nutsedge*	Wild Carrot	
Seedling Dock	Yellow Nutsedge*	
Wire Weed		
Willow Weed		

\* Nutsedge control may be improved with cumulative use over several years.

### Drift BEWARE:

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

### USE RATES:

**PUMPKINS AND BUTTERCUP SQUASH:** Apply at 300 – 470 ml/hectare immediately post sowing.

**POTATOES:** Apply 300 – 470 ml/ hectare after final ridging/molding.

Contains; 480g/ litre sulfentrazone in a Suspension Concentrate formulation.

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