

# PAYLOAD® HERBICIDE

**PAYLOAD®**  
HERBICIDE

**GROUP 14 HERBICIDE**

**ACTIVE CONSTITUENT:  
750 g FLUMIOXAZIN**

*Registered for enhanced knockdown and residual control of various grass and broadleaved weeds in non-crop areas as per the Directions for Use table.*

## Product overview

Payload Herbicide is utilised to enhance burndown and long-term residual control of broadleaf weeds and grasses in commercial and industrial areas. It can be applied by boom spray or High-volume spot spraying. This includes Irrigation channel banks and drainage ditches, rights-of way, roadsides, edges of railway lines, and around buildings, guideposts, power and telephone poles and fence lines. Best results are achieved when it is used in combination with knockdown herbicides. For more details on enhancing your weed control program contact your Macspred Australia representative.

Payload Herbicide is most effective when applied to young, actively growing weeds and needs Sunlight to activate it. It works faster in warm weather as the plants' uptake is enhanced and effectiveness is quicker.

## How does Payload Herbicide work?

Payload Herbicide is a Group 14 or the old group G Herbicide. It is a fast-acting herbicide that will play an important role in IVM integrated pest management. FLUMIOXAZIN is newer chemistry in Australia and a PPO inhibitor, a member of the N-phenylphthalimides group of herbicides.

This mode of action inhibits protoporphyrinogen oxidase (Protox), an enzyme important in the synthesis of chlorophyll.

## Product profile

Payload Herbicide will control many problematic weeds. It is quite stable in the soil profile with no leaching or lateral movement in the soil. Its average half-life in the soil is around two weeks and is considered not persistent. In water the breakdown is fast through hydrolysis, which is pH dependent. The active ingredient FLUMIOXAZIN is considered not persistent in water.

A great profile with low toxicity to fish, crustaceans' frogs etc. (See the label instructions for more details)

## Integrated pest management

Being a Group 14 herbicide Payload Herbicide offers weed control experts a mode of action to rotate through their weed control program and is currently utilised as a tool for resistant annual rye grass control in various states.

## Payload Herbicide withholding

### NON-CROP AREAS

GRAZING: DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 4 WEEKS AFTER APPLICATION.

### IRRIGATION CHANNEL BANKS AND DRAINAGE DITCHES

GRAZING: DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 8 WEEKS AFTER APPLICATION.

# Application of Payload Herbicide

- Using a water volume of 200 l/ha use Payload Herbicide at 372 g/ha - 465 g/ha and for handgun 93 g/200 L. Product is packed in a small pack of 950 g containing 10 x 93 g water soluble bags and a 3.72 kg shipper containing 8 x 465 g water soluble bags. Add a spray adjuvant oil to enhance burndown. When opening multiple-bag packaging make sure to use all water soluble bags.
- PAYLOAD Herbicide needs at least 15 mm of irrigation or rain to activate, and therefore should be applied during the main rainfall period. Apply to bare soil using a directed spray or add knockdowns if weeds are present.
- PAYLOAD Herbicide may also be applied as a spot spray with an appropriate non-selective herbicide. Use a high enough rate of the non-selective to achieve good control.

## Weeds controlled with an application of Payload Herbicide

The label (APVMA no. 86471/131210) lists the control of many troublesome weeds like Fleabane and Feathertop Rhodes grass, including the following.

Amaranthus spp.	Hog weed/Wireweed ( <i>Polygonum aviculare</i> )
Annual ryegrass ( <i>Lolium rigidum</i> )	<i>Ipomoea</i> spp. (Bell vine, Morning glory,
Balsam pear ( <i>Mormordica charantia</i> )	Pink convolvulus, Red convolvulus,
Barnyard grass ( <i>Echinochloa colona</i> )	Star of Bethlehem)
Blackberry nightshade ( <i>Solanum nigrum</i> )	Marshmallow ( <i>Malva parviflora</i> )
Bladder ketmia ( <i>Hibiscus trionum</i> )	Milk/Sow thistle ( <i>Sonchus oleraceus</i> )
Bluetop / Billygoat weed ( <i>Ageratum houstonianum</i> )	Milkweed ( <i>Euphorbia heterophylla</i> )
Calopo ( <i>Calopogonium mucunoides</i> )	Perennial ryegrass ( <i>Lolium perenne</i> )
Caltrop / Yellow vine ( <i>Tribulus terrestris</i> )	Phyllanthus spp.
Capeweed ( <i>Arctotheca calendula</i> )	Pigweed / Red pigweed ( <i>Portulaca oleracea</i> )
Common sida ( <i>Sida rhombifolia</i> )	Ribwort ( <i>Plantago lanceolata</i> )
Crassula ( <i>Crassula colorata</i> )	Sicklepod ( <i>Cassia obtusifolia</i> )
Creeping speedwell ( <i>Veronica persica</i> )	Small flowered mallow ( <i>Modiola caroliniana</i> )
Crowsfoot ( <i>Eleusine indica</i> )	Spider flower / Wild rose ( <i>Cleome aculeate</i> )
Dwarf nettle or stinging nettle ( <i>Urtica urens</i> )	Summer grass ( <i>Digitaria ciliaris</i> )
Fat Hen ( <i>Chenopodium album</i> ),	Square weed ( <i>Spemacoce latifolia</i> )
Feathertop Rhodes grass ( <i>Chloris virgata</i> )	Squirreltail fescue ( <i>Vulpia bromoides</i> )
Fleabane ( <i>Conyza bonariensis</i> )	Toadrush ( <i>Juncus bufonius</i> )
Giant pigweed ( <i>Trianthema portulacastrum</i> )	Turnip weed ( <i>Rapistrum rugosum</i> )
Green summer grass ( <i>Brachiaria subquadriflora</i> )	Wild mustard ( <i>Sinapis arvensis</i> )
	Wild radish ( <i>Raphanus raphanistrum</i> )
	Wild turnip ( <i>Brassica tournefortii</i> )

## Application restrictions

(See the label for more details)

## Features and benefits

- Low water solubility – no leaching or lateral movement in the soil.
- Stable in the top 3cm of the soil profile unless disturbed – activated by the first rainfall event.
- No known resistance to Payload Herbicide in Australia – powerful new management tool.
- Packed in water soluble packaging – application and calibration simplified.
- Long soil residual activity as well as foliar uptake.
- Broad weed spectrum and compatible with common herbicide partners.



### TECHNOTE

#### Where can I find out more about Payload Herbicide?

For further information and advice, contact your Macspred Australia technical assistant

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Southern Business Manager  
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**Ray Gurney**  
Northern Business Manager  
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