



## Product Overview

PALMERO® is a pre-emergent soil residual herbicide that provides control and suppression of key weeds in Chickpea crops.

- Contains 750 g/L isoxaflutole
- Water dispersible granule formulation
- Applied to the soil surface after planting but before crop emergence (PSPE)
- Is stable on the soil surface and has minimal breakdown through sunlight
- PALMERO® is activated by moisture and has the ability to reactivate after dry periods when the soil becomes moist again – this allows PALMERO® to remain active against weeds for longer
- PALMERO® is primarily taken up through the roots although some shoot uptake can also occur
- Compatible with other pre-emergence and knockdown herbicides applied PSPE.

## Mode of Action

GROUP **H** HERBICIDE

The Mode of Action of isoxaflutole is to inhibit the 4-hydroxyphenyl pyruvate dioxygenase (HPPD) enzyme within weeds. Isoxaflutole is converted to a diketonitrile (DKN) and it is the DKN that is the active herbicide component of PALMERO®. PALMERO® inhibits the enzyme HPPD that indirectly interferes with the photosynthetic processes and ultimately causes plant death.

PALMERO® is very stable on the soil surface allowing the flexibility to be applied in very hot dry conditions and under high sunlight intensity without degrading the active ingredient. This allows the product to be washed into the root zone and activated by rainfall at a later time. Once rainfall occurs newly germinating weeds will take the product in through the roots and or shoots. Weeds that do emerge turn white and quickly die. Some weeds will be controlled before they emerge.

Typical symptoms are for leaf margins to become bleached before complete death occurs



Rainfall is required to move PALMERO® into the root zone and activate the ai

Many weeds will die before emerging

PALMERO® works through both root & shoot uptake

## Standard Recommendations

**100 g/Ha** – For the control of Capeweed, Crassula, Indian Hedge Mustard, Medic, Prickly Lettuce, Sow Thistle, Turnip Weed and Wild Radish with suppression of Deadnettle and Slender Celery.

**100 g/Ha + 1.5 L/Ha simazine (500 g/L)** - For the control of Capeweed, Crassula, Deadnettle, Indian Hedge Mustard, Medic, Prickly Lettuce, Silvergrass, Slender Celery, Sow Thistle, Spear Thistle, Turnip Weed and Wild Radish with suppression of Saffron Thistle, Spiny Emex and Wireweed.

PALMERO® should be applied to Chickpeas as soon as possible after sowing but before emergence of the crop and the weeds. If applied during the planting operation care must be taken that the planting furrow is firmly closed to reduce the risk of seed contact with the herbicide as this will result in crop injury.

**DO NOT** tank mix PALMERO® with trifluralin.

## Crop Rotation Recommendations

Minimum re-cropping intervals and rainfall requirements apply for all crops following the application of PALMERO®.

Crop	Minimum Re-cropping Interval	Minimum Rainfall Requirement†
Wheat, Barley, Oats	10 weeks**	100 mm
Canola	9 months	350 mm
Faba Beans, Field peas	9 months	250 mm
Lentils, Clover	21 months	500 mm
Lucerne	9 months	350 mm
Medic	21 months	500 mm
Maize	10 weeks**	100 mm
Mung Beans, Sorghum, Soybeans, Sunflowers	7 months	250 mm
Cotton	7 months	350 mm

† Minimum rainfall total from PALMERO® 750 WG use until planting of the subsequent crop. DO NOT include flood or furrow irrigation in the minimum rainfall requirement  
 \*\* If PALMERO® 750 WG has been tank-mixed with simazine, observe the re-cropping interval for simazine for Wheat, Barley, Oats and Maize

## Features and Benefits

Features	Benefits
PALMERO® is a group H, HPPD herbicide	Excellent herbicide rotation choice helping with resistance management
Very stable on the soil surface with low UV breakdown	Can be applied under hot dry conditions and will still remain effective
Excellent length of residual weed control	Peace of mind that subsequent weed germinations will be controlled
Taken up by the roots and shoots of the weed	Greater reliability and confidence weeds will be controlled
Ability to reactivate after dry periods when it rains again.	Allows PALMERO® to remain active against weeds for longer. Preserves active until moisture becomes available.

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