

# DUAL GOLD® – Superactive, long lasting pre-emergent weed control



syngenta®

## How Does DUAL GOLD work?

The new shoots (coleoptile) of germinating weeds absorb DUAL GOLD during emergence. Once absorbed, the active constituent, **S-metolachlor**, controls weeds by producing a severe growth inhibition of seedling-shoot and root tissue soon after germination. Its effectiveness depends on the occurrence of rainfall or irrigation to move it down into the top 3 to 4 cm of soil where it must be present in a moist soil at the time of weed germination.

## Application

In most cropping situations, DUAL GOLD can be applied before, at or immediately after planting before annual weeds and crops emerge. DUAL GOLD does not have to be mechanically incorporated into the soil, making it suitable for use in conservation tillage systems however better results are usually observed where incorporation by rainfall, irrigation or mechanical means occurs within 10 days of application.

## Selectivity

DUAL GOLD is a selective herbicide that provides excellent control of many important annual grasses and some broadleaf weeds in cereal crops, canola, newly sown pastures and the summer crops of maize, sweet corn and sorghum (when used in conjunction with CONCEP II treated seed).

## Weeds Controlled

DUAL GOLD provides excellent control of problem weeds. In Australia, DUAL GOLD is registered for the control of the following annual weeds: Barnyard Grass, Crowsfoot Grass, Liverseed Grass, Lovegrass, Pigeon Grass, Summer Grass, Wandering Jew, Toad Rush and suppression of Annual Ryegrass.

## Residual Control

Under optimal conditions, DUAL GOLD provides residual control of weeds for up to 8 weeks. This ensures optimum crop establishment and development.

## Formulation

DUAL GOLD is a 960g/L **S-metolachlor** formulation (as an emulsifiable concentrate).

## Competitor Formulations

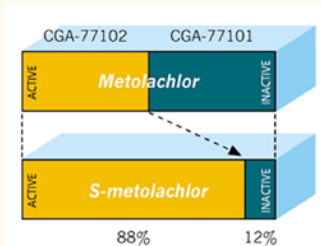
S-metolachlor, the active ingredient in DUAL GOLD, contains 88% of the active isomer and only 12% of the inactive isomer.

Competitor formulations sold in Australia contain the old metolachlor active ingredient which only contains 50% of the active isomer and hence need to be applied at significantly higher application rates to achieve similar results.

## Key Benefits of DUAL GOLD

As DUAL GOLD contains **S-metolachlor**, it provides many benefits over other metolachlor products. These benefits include:

- ✓ Using as little as half the product for the same result
- ✓ On-farm packaging waste is reduced
- ✓ A reduction of active ingredient entering the crop and the environment
- ✓ A reduced rate per hectare means easier application management
- ✓ Less drums results in less freight and logistics and less handling
- ✓ More cost effective weed control



Formulation Comparison	DUAL GOLD 960g/L S-metolachlor	Generic formulations 960g/L metolachlor	Generic formulations 720g/L metolachlor
Cost per Litre	\$15.00	\$11.50	\$10.00
Cost per Ha	\$15.00	\$17.25	\$20.00
Grams of active isomer	845g/Ha	720g/Ha	720g/Ha
Grams of inactive isomer	115g/Ha	720g/Ha	720g/Ha

As can be seen in the table above, while DUAL GOLD is applied at significantly lower application rates than generic formulations there is 17% more of the biologically active isomer being applied per treated hectare.

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