

L1063558 ZAMB/06Y PPE 4122771



# Gardomil® Gold

600SC

syngenta®

**KEEP LOCKED UP OUT OF REACH OF CHILDREN.**

**Before opening the container, read the safety advice.**

**Shelf-Life:**

Minimum 2 years if stored in a cool dry place in original unopened container.

**Emergency Call Number: (During Transport)**

Syngenta Alarm Centre in Huddersfield, UK

Tel.: +44 1484 538 444 / Fax: +44 1484 554 093

**Emergency Call Number:**

Swiss Toxicological Information Centre, (24 h) +41 44 251 51 51

**Manufacturer:**

Syngenta Crop Protection AG, Basle, Switzerland

**Registered and distributed by: Syngenta Zambia Ltd.**

Plot 5255, Mukwa Road, P.O. Box 33088,

Heavy industrial area, Lusaka, Zambia

Tel.: +260 211 244 766



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## 20 Litres



**WARNING**



**S-PAC**

DESCRIPTION:  
BOOKLET 4-16 PG 185 x 195 MM INCAP

SCALE:  
1:1

ISSUE NO:  
SYN001

ISSUE DATE:  
05.11.2013

**4029074**

**A suspension concentrate herbicide for selective pre-emergence and early post-emergence control of most annual broadleaf weeds and some annual grasses in maize.**

| <b>Composition</b>     | <b>g/litre</b> |
|------------------------|----------------|
| S-metolachlor.....     | 102.8          |
| Atrazine .....         | 248.6          |
| Terbuthylazine .....   | 248.6          |
| Inert ingredients..... | to 1 litre     |

### **PRECAUTIONS**

- Handle with care; avoid splashing/contact; poisonous by swallowing, inhalation and contact with the skin.
- WEAR protective clothing, i.e. for preparation: impermeable gloves, for application: overalls, hat or cap, and solid footwear.
- DO NOT eat, drink or smoke while applying this product.
- Remove protective clothing on completion of spraying and wash hands and face thoroughly with soap and water.
- **DANGEROUS TO FISH.**
- **KEEP OUT OF REACH OF CHILDREN.**
- **KEEP APART FROM FOOD, FOODSTUFFS**, seeds and fertilisers.
- Store in original container in a cool, dry place and **KEEP UNDER LOCK AND KEY.**
- Use only on the crops for which this product is registered.
- Avoid drift to the adjacent crops or soil.
- After use, wash out sprayer thoroughly and dispose of washings in a safe place, e.g. on waste ground. Do not contaminate water supplies.
- Bury empty container. **DO NOT** use for any other purpose.

### **Symptoms of Poisoning**

No case of human poisoning is on record.

### **First Aid**

If poisoning is suspected stop work immediately and seek medical advice. In case of contact with skin and eyes, wash immediately with plenty of water. Rinse splashes from eyes with abundant fresh and clean water for at least 10 minutes. If inhaled move to clean air. If swallowed give medical charcoal with plenty of water.

### **Note to Physician**

No specific antidote. Apply symptomatic therapy.

### **WARRANTY**

Although this remedy has been extensively tested under a large variety of conditions, the registration holder does not warrant that it will be effective under all conditions. The activity and effect thereof may be affected by factors such as abnormal soil, climatic and storage conditions, quality of dilution water, compatibility with other substances not indicated on the label and the occurrence of resistance of the weed against the remedy, as well as by the method, time and accuracy of application. The registration holder furthermore does not accept responsibility for damage to crops, vegetation, the environment or harm to man or animal, or for lack of performance of the remedy concerned due to failure by the user to follow the label instructions, or to the occurrence of conditions, which could not have been foreseen in terms of the registration. Consult the supplier in the event of any uncertainty.

### **USE RESTRICTIONS**

- To avoid damage to follow-up crops the following waiting periods should be observed:
  - a) Maize and sugarcane – nil.
  - b) Grain sorghum - 6 months.
  - c) Sunflowers, groundnuts, soybeans, potatoes, dry beans, forage sorghum and small grains - 18 months.
  - d) All other crops - 24 months (a test planting is recommended).
  - e) Where the rate of Gardomil® Gold applied does not exceed 2,2 l/ha the waiting period mentioned under (c) above may be reduced to 9 months except on the sandy soils which contain 0-10% clay.
- The above-mentioned waiting periods are valid only if the correct dosage rate of Gardomil® Gold according to soil type was applied and normal or above average rainfall occurred after Gardomil® Gold application.
- When Gardomil® Gold is applied to soils, which expand on wetting and crack or crumble on drying out, such as turf soils, it may remain active in the soil for much longer than the above-mentioned waiting periods. For this reason Gardomil® Gold should not be used on such soils if sensitive crops might be planted in the foreseeable future. On such soils Gardomil® Gold may also give poor control of the weeds when applied pre-emergence.
- Do not apply Gardomil® Gold onto poorly drained soils or soils with a compaction layer, since this can cause damage to triazine sensitive crops under waterlogged conditions.
- Do not apply Gardomil® Gold to inbred parent plants of maize and sorghum hybrids or to experimental or newly released maize or sorghum cultivars without first consulting the Syngenta representative/agent or seed supplier.

- For optimal results with Gardomil® Gold, approximately 10-20 mm of rain or irrigation is required for activation of the product. If there is no rain for more than two weeks, certain weeds will germinate and consequently, control will be poor or erratic.
- Due to the low adsorption capacity of sandy soils (0-15% clay), the herbicide present can drop to sub lethal levels within the upper 50 mm of the soil profile after soaking rains (>25 mm per day) with a subsequent reduction in weed control. Continuous rains (> 50 mm spread over 3-7 days) will also lead to reduced weed control and possible crop damage.
- Do not apply Gardomil® Gold under stress conditions, e.g. waterlogged conditions, drought, extremely cold conditions, excessive rain, poor fertilizer application, low pH etc. Application under these conditions will result in poor weed control and possibly crop damage.
- Fields that have been burned, must first be well cultivated before applying Gardomil® Gold. Ash on the soil surface can lead to inactivation of the applied herbicides with subsequent poor control.
- Due to the translocation of treated top soils and leaching of Gardomil® Gold on sandy soils, sub optimal weed control may result under flood irrigation.
- Under abnormal climatic conditions, such as excessive rain followed by long periods of cloudy weather shortly after planting, can cause crop damage when applications are made early post emergence (1-3 leaf stage of the crop).
- Dual® Gold **should not** be added to Gardomil® Gold on poorly drained soils.

**Warning: Possible damage to triazine sensitive crops.**

- Where soils have been treated with lime to correct the soil pH, the possibility of crop damage increases dramatically in fields where triazines were previously applied. This is due to the triazine molecules being replaced on the clay complex with calcium cations and the triazine thus becoming more available in the soil-water complex.
- Only maize should be planted in the season directly after soil pH adjustment with lime.
- No triazine sensitive crops should be planted in the season after the soil pH adjustment has been done with lime. This applies even if triazines were used at crop rotation rates in previous years.
- Triazine sensitive crops include all broadleaf crops e.g. different bean crops, sunflowers and all cereals e.g. wheat.
- These warnings however do not guarantee that no damage would be experienced to even the following maize crop as large volumes of previously applied triazines might now be available depending on the volume of lime applied and the rainfall experienced.

**Warning: Possible increased efficacy, phytotoxicity and residual action.**

- Increasing the soil pH levels above 7 could produce conditions for increased efficacy and reduced selectivity. This increased pH may also result in increased soil residual action by certain herbicides influencing the choice of following crops especially under irrigation.
- In situations where pH adjustments has been done, take care when sulphonyl urea herbicides, triazolopyrimidine sulfonanilide herbicides and imidazolinone herbicides, which are all sensitive to soil pH fluctuations, have been used or are about to be used.

**Contact your local Syngenta representative to discuss crop rotation and crop protection programmes to follow before embarking on any pH adjustment programme.**

## WEEDS CONTROLLED

The following weed species are normally controlled by GARDOMIL® GOLD at the dosage rates recommended below:

### Broadleaf weeds

|                                 |       |                                |
|---------------------------------|-------|--------------------------------|
| <i>Acanthospermum australe</i>  | ..... | eight-seeded prostrate starbur |
| <i>Acanthospermum glabratum</i> | ..... | five-seeded prostrate starbur  |
| <i>Amaranthus hybridus</i>      | ..... | common pigweed                 |
| <i>Amaranthus thunbergii</i>    | ..... | red pigweed                    |
| <i>Bidens bipinnata</i>         | ..... | Spanish blackjack              |
| <i>Bidens pilosa</i>            | ..... | blackjack                      |
| <i>Chenopodium album</i>        | ..... | white goosefoot                |
| <i>Chenopodium carinatum</i>    | ..... | green goosefoot                |
| <i>Cleome monophylla</i>        | ..... | spindlepod                     |
| <i>Cleome rubella</i>           | ..... | pretty lady                    |
| * <i>Commelina benghalensis</i> | ..... | Bengal wandering Jew           |
| * <i>Cosmos bipinnatus</i>      | ..... | cosmos                         |
| <i>Crotalaria sphaerocarpa</i>  | ..... | mealie Crotalaria              |
| * <i>Datura ferox</i>           | ..... | large thorn apple              |
| * <i>Datura stramonium</i>      | ..... | thorn apple                    |
| <i>Galinsoga parviflora</i>     | ..... | gallant soldier                |
| <i>Gisekia pharnaceoides</i>    | ..... | Gisekia                        |
| * <i>Hibiscus cannabinus</i>    | ..... | kenaf                          |
| <i>Hibiscus trionum</i>         | ..... | bladderweed                    |
| <i>Nicandra physaloides</i>     | ..... | apple of Peru                  |
| <i>Physalis angulata</i>        | ..... | wild gooseberry                |
| <i>Portulaca oleracea</i>       | ..... | purslane                       |
| <i>Richardia brasiliensis</i>   | ..... | tropical Richardia             |
| <i>Schkuhria pinnata</i>        | ..... | dwarf marigold                 |
| <i>Tagetes minuta</i>           | ..... | khaki weed.                    |

\* When Gardomil® Gold is applied pre-emergence the weeds marked above with an asterisk may not always be well controlled. All the above-mentioned weeds are well controlled when Gardomil® Gold is applied post-emergence. In addition, **cocklebur** (*Xanthium strumarium*), **dubbeltjie** (*Tribulus terrestris*), **common morning glory** (*Ipomoea purpurea*), **striped wild cucumber** (*Cucumis myriocarpus*) are also controlled by post-emergence applications of Gardomil® Gold.

## Grasses

|                              |       |                     |
|------------------------------|-------|---------------------|
| <i>Chloris virgata</i>       | ..... | feathertop chloris  |
| <i>Eleusine coracana</i>     | ..... | goose grass         |
| <i>Panicum schinzii</i>      | ..... | sweet buffalo grass |
| <i>Setaria pallide-fusca</i> | ..... | red bristle grass.  |

Reliable control of the above-mentioned grasses is only obtained with pre-emergence applications of Gardomil® Gold.

**Sweet buffalo grass** (*Panicum schinzii*) may not always be well controlled.

## **DIRECTIONS FOR USE** (Use only as directed)

### **COMPATIBILITY**

The compatibility of Gardomil® Gold with other products may be influenced by the formulation of the products involved as well as the quality of the water. Since the formulation of other products may change without the knowledge of Syngenta and the quality of water may vary from farm to farm, a physical compatibility test should always be carried out prior to application.

Gardomil® Gold is compatible with Complement®, Complement® Super, Dual® Gold, EPTC and Gramoxone® as recommended on this label.

### **MIXING INSTRUCTIONS**

#### **Shake well before use. Replace cap after use.**

Half-fill the spray tank with water and pour the required quantity of Gardomil® Gold through a 50 mesh sieve into the spray tank while stirring. Top up the spray tank with water to the final volume required. When Dual® Gold is added to Gardomil® Gold, the Dual® Gold should be added last, just prior to the final volume being obtained. When EPTC is added to Gardomil® Gold, the same procedure as with Dual® Gold should be followed. When Gramoxone is added to Gardomil® Gold or Gardomil® Gold plus Dual® Gold, the Gardomil® Gold should be mixed first as indicated above and well agitated following which the spray tank should be filled almost to capacity. Only then should Dual® Gold be added and well agitated followed by the Gramoxone®, which should be added last. When mixtures containing Gramoxone® are applied at least 400 l spray mixture/ha should be used.

**Ensure thorough agitation during filling and spraying operations. Tank mixtures must be sprayed out immediately and not allowed to stand in the spray tank.**

### **APPLICATION TECHNIQUES**

#### **Pre-emergence**

Gardomil® Gold should be applied at or immediately after planting on a fine, even and firm seedbed, thoroughly cultivated immediately prior to planting to ensure a weed-free seedbed. Rainfall shortly after application is necessary to activate the herbicide. Should dry conditions prevail for a period of **7-14** days after application, weeds may emerge and develop. In such cases a shallow cultivation, e.g. with a rotary cultivator, should be carried out to destroy these weeds.

#### **Post-emergence**

Gardomil® Gold may also be applied post-emergence if broadleaf weeds have not developed beyond the 4-leaf-stage. A grass killer should be applied pre-emergence

to control the grass weeds. Where grasses were not controlled or broadleaf weeds have developed beyond the 4-leaf-stage, these weeds must first be destroyed by a cultivation and Gardomil® Gold then applied onto clear soil. Where Gardomil® Gold is applied post-emergence to weeds a suitable surfactant should be added to the spray mixture. Gardomil® Gold may also be applied in a tank mixture with Gramoxone® as a directed inter-row application. The maize should be at least 30 cm tall to facilitate proper directing of the spray mixture. Weeds should not be taller than 10 cm to ensure effective control. This treatment may be used instead of the above-mentioned cultivation. For further information consult the Gramoxone® label.

### **Ground Application**

Gardomil® Gold may be applied with any medium or high volume sprayer equipped with an efficient agitation mechanism and which is capable of adequate coverage and even distribution. Best results are obtained using flat fan-type spray nozzles and applying a minimum of 200 l water/ha.

### **Aerial Application (pre- and post-emergence)**

Aerial application of this product may only be done by a registered aerial application operator using a correctly calibrated, registered aircraft according to the instructions of SANS 10118 (Aerial Application of Agricultural Remedies). It is important to ensure that the spray mixture is distributed evenly over the target area and that the loss of spray material during application is restricted to a minimum. It is therefore essential that the following criteria be met:

#### **a) Application parameters:**

- Volume: A volume of 30 l pre-emergence and 35 l post-emergence per hectare is recommended. As this product has not been evaluated at a reduced volume rate, the registration holder cannot guarantee efficacy or be held responsible for any adverse effects if the product is applied aurally at a lower volume rate than recommended above.
- Droplet coverage: Droplet coverage of 20-30 (pre-emergence) and 30-45 (post-emergence) droplets per cm<sup>2</sup> must be recovered at the target.
- Droplet size: A droplet spectrum with a VMD of 350-400 microns (pre-emergence) and 300-350 (post-emergence) microns is recommended. Ensure that the production of fine droplets (less than 150 microns - high drift & evaporation potential) is restricted to a minimum.
- Flying height: The height of the spray boom should be maintained at 3-4 metres above the target. Do not spray when aircraft is in a climb, at the top or during a dive, or when banking.

**b) Equipment:**

Use suitable atomising equipment (hydraulic nozzles or rotary atomisers) that will produce the desired droplet size and coverage but which will ensure the minimum loss of product either through endodrift (within target field) or exodrift (outside target field). The operator must use a set-up that will produce a droplet spectrum with the lowest possible relative span. All nozzles / atomisers should be positioned within the inner 60% to 75% of the wingspan to prevent droplets from entering the wingtip vortices.

**c) Meteorological conditions:**

The difference in temperature between the wet and dry bulb thermometers, of a whirling hygrometer, should not exceed 8°C. The addition of a suitable anti-evaporant is recommended if the VMD of the droplets is less than 200-250 microns. Stop spraying if the wind speed exceeds 15 km/h. Aerial application of this product must not be done under turbulent, unstable conditions during the heat of the day when rising thermals and downdraughts occur. Also note that the application of this product under temperature inversion conditions (spraying in or above the inversion layer) may lead to the following:

- Reduced efficacy due to suspension and evaporation of small droplets in the air (inadequate coverage).
- Damage to other sensitive crops and or non-target areas through the movement of the suspended spray cloud away from the target field.

**It is essential to obtain an assurance from the aerial spray operator that the above requirements are met.**

**APPLICATION RATES**

**Important:** All dosage rates recommended below are for overall application. In the case of band application calculate the appropriate quantities to be used according to the band and row widths.

**Table 1: Gardomil® Gold applied pre-emergence:**

| Soil Type                    | % Clay | Pre-emergence          |
|------------------------------|--------|------------------------|
|                              |        | Gardomil® Gold (L/ha)  |
| Sand                         | 0-10   | 2.2                    |
| Loamy sand/ sandy loam       | 11-20  | 2.5                    |
| Sandy clay loam              | 21-30  | 3.2                    |
| Heavier soils including turf | >30    | <b>Not recommended</b> |

**Gardomil® Gold + Dual® Gold**

(Pre-plant incorporated and/or pre-emergence application)

To control other annual grasses such as **herringbone grass** (*Urochloa panicoides*) and **crab finger-grass** (*Digitaria sanguinalis*) and/or **yellow nutsedge** (*Cyperus esculentus*) Dual® Gold should be added to Gardomil® Gold as recommended in Table 2.

**Table 2: Gardomil® Gold plus Dual® Gold applied pre-emergence as tank mixtures or a pre-plant incorporated application of Dual® Gold followed by pre-emergence application of Gardomil® Gold:**

| Soil type                   | % Clay | Tank mixed pre-emergence or |                        |
|-----------------------------|--------|-----------------------------|------------------------|
|                             |        | Pre-emergence               | Pre-plant incorporated |
|                             |        | Gardomil® Gold (L/ha)       | Gardomil® Gold (L/ha)  |
| Sand                        | 0-10   | 2.2                         | 0,4-0,65               |
| Loamy sand / sandy loam     | 11-20  | 2.5                         | 0.4-0.6                |
| Sandy clay loam             | 21-30  | 3.2                         | 0.5-0.7                |
| Sandy clay loam / sand clay | 31-40  | 4                           | 0.6-0.7                |
| Sandy clay/turf             | 41-50  | 4.8                         | 0.6-0.8                |

**Dual® Gold followed by Gardomil® Gold**

On heavy soils (> 30% clay) including turf and/or where deep germinating broadleaf weeds such as **thorn apple** (*Datura spp.*), **kenaf** (*Hibiscus cannabinus*), **dubbelt-jie** (*Tribulus terrestris*), **cocklebur** (*Xanthium strumarium*), **common morning glory** (*Ipomoea purpurea*) and **striped wild cucumber** (*Cucumis myriocarpus*) constitute an important part of the broadleaf weeds or where more reliable broadleaf weed control is required, a split application of Dual® Gold applied pre-emergence followed by a post-emergence application of Gardomil® Gold is recommended (Table 3).



**Table 3: Dual® Gold applied pre-emergence or pre-plant incorporated followed by Gardomil® Gold early postemergence (split application):**

| Soil type                   | % Clay | Pre-plant incorporated or Pre-emergence | Early postemergence   |
|-----------------------------|--------|---|-----------------------|
|                             |        | Dual® Gold (L/ha)                       | Gardomil® Gold (L/ha) |
| Sand                        | 0-10   | 0.55-0.65                               | 2.3                   |
| Loamy sand / sandy loam     | 11-20  | 0.5-0.6                                 | 2.8                   |
| Sandy clay loam             | 21-30  | 0.6-0.8                                 | 3.2                   |
| Sandy clay loam / sand clay | 31-40  | 0.7-0.9                                 | 3.2-4.8               |
| Sandy clay/turf             | 41-50  | 0.8-1                                   | 3.2-4.8               |

**REMARKS TABLES 2 AND 3:**

- Use the higher application rates of Dual® Gold for improved control of **yellow nutsedge** (*Cyperus esculentus*).
- Use the higher application rates of Dual® Gold where heavy infestations of **crab finger grass** (*Digitaria sanguinalis*) exist.
- Use the higher application rates when Dual® Gold is preplant incorporated.
- Use the higher application rates of Dual® Gold where organic matter in the soil exceeds 1%.
- On soils containing more than 30% clay, broadleaf weeds may not be controlled satisfactorily pre-emergence (Table 2) and preference should be given to post-emergence control of broadleaf weeds (Table 3).
- On soils containing more than 30% clay where the Dual® Gold plus Gardomil® Gold split treatment is selected, the rate of Gardomil® Gold can be varied according to the degree of pre-emergence control achieved and the prevailing weather conditions.
- A suitable adjuvant must be added to the spray mixture when Gardomil® Gold is applied post-emergence.
- The higher dosage rate of Gardomil® Gold may be used if grass weeds have started to emerge at the time of the post-emergence application.
- When Dual® Gold is added to Gardomil® Gold the conditions and precautions as given on the Dual® Gold label also apply. Therefore consult the Dual® Gold label.

**Gardomil® Gold split applications**

In order to improve the variable initial broadleaf control of Dual® Gold it may be used pre-emergence in a tank mixture with a small volume of Gardomil® Gold followed early post-emergence with Gardomil® Gold.

**Table 4: Gardomil® Gold applied pre-emergence in a tank mixture with Dual® Gold for more reliable initial broadleaf control:**

| Soil type                      | % Clay  | Pre-emergence tank mixture |                       | Early Post-emergence  |
|--------------------------------|---------|----------------------------|-----------------------|-----------------------|
|                                |         | Dual® Gold (L/ha)          | Gardomil® Gold (L/ha) | Gardomil® Gold (L/ha) |
| Sand / loamy sand / sandy loam | 0 - 20  | 0.6                        | + 0.8                 | 2.0                   |
| Sandy clay loam                | 21 - 30 | 0.8                        | + 1.0                 | 2.2                   |
| Sandy clay loam / Sandy clay   | >30     | 0.9                        | + 1.2                 | 2.8                   |

**Crop rotation**

The above mentioned quantities of Gardomil® Gold recommended in Tables 2, 3, 4 and 5 may damage triazine sensitive follow-up crops such as groundnuts, dry beans, soybeans, sunflowers, wheat, vegetables, cotton and tobacco. Where these crops are to be planted as follow-up crops the application rate of Gardomil® Gold should not exceed 2,2 l/ha. On soils with 0-10% clay and high lime content soils, the lower rates of Gardomil® Gold may still damage follow-up crops. These low rates may result in poorer weed control and shorter residual.

Post-emergence control of broadleaf weeds is recommended when crop rotation with sensitive crops is practised.

**Table 5: Dual® Gold applied pre-emergence or pre-plant incorporated followed by Gardomil® Gold early post-emergence in a crop rotation situation:**

| Soil type                      | % Clay | Pre-plant incorporated or Pre-emergence | Early Post-emergence  |
|--------------------------------|--------|---|-----------------------|
|                                |        | Dual® Gold (L/ha)                       | Gardomil® Gold (L/ha) |
| Sand / loamy sand / sandy loam | 0-20   | 0.5-0.65                                | 2.2                   |
| Sandy clay loam                | 21-30  | 0.6-0.8                                 | 2.2                   |
| Sandy clay loam / sand clay    | 31-40  | 0.8-1.0                                 | 2.2                   |
| Sandy clay / turf              | 41-50  | 1.0-1.1                                 | 2.2                   |

**Gardomil® Gold plus EPTC**

Gardomil® Gold may also be used with EPTC. EPTC should be used as recommended on the label. Gardomil® Gold should preferably be applied as a pre-emergence or early postemergence treatment after an EPTC treatment and planting have taken place. Alternatively Gardomil® Gold may also be applied in a tank mixture with EPTC. Gardomil® Gold in a pre-emergence programme or in a tank mixture with EPTC should be applied from two-thirds up to the full application rates as recommended above in combination with Dual® Gold (Table 2). The higher rates of Gardomil® Gold will provide longer residual control. In early post-emergence applications the full rate of Gardomil® Gold must be used (Table 3).

Gardomil® Gold applied early post-emergence in a tank mixture with Dual® Gold after initial application of EPTC.

Improved residual control of grass weeds and **yellow nutsedge** (*C. esculentus*) may be obtained if EPTC is followed by an early post-emergence application of a Gardomil® Gold plus Dual® Gold tank mixture. EPTC should be used as recommended on the EPTC label.

**Table 6: Gardomil® Gold in a tank mixture with Dual® Gold applied post-emergence after EPTC:**

| Soil type               | % Clay | Early Post-emergence (after EPTC incorporation) |                   |
|-------------------------|--------|---|-------------------|
|                         |        | Gardomil® Gold (L/ha)                           | Dual® Gold (L/ha) |
| Loamy sand / sandy loam | 11-20  | 2.5   | 0.55              |
| Sandy clay loam         | 21-30  | 3.2   | 0.6               |

**Important Tables 1-6**

- A suitable adjuvant e.g. Complement® or Complement® Super® should be added to Gardomil® Gold plus Dual® Gold when sprayed post-emergence.
- Grass killers belonging to the chloroacetamide group of herbicides (which includes Dual® Gold) are absorbed via coleoptiles of grass weeds. Therefore, for good grass control the herbicides need to be present at lethal concentrations in the top ± 50 mm of the soil profile. The adsorptive capacity of a soil for these herbicides, as well as the amount of water that moves through the soil profile with rain / irrigation, determines the resultant concentration of these herbicides in the top layers of the soil profile. As a result of the low adsorption capacity of sandy soils (0-15% clay, <1% organic matter) the amount of these herbicides can be reduced to sub-lethal concentrations in the top ± 50 mm after the occurrence of permeating rain (25 mm and more within one day). Persistent rain (50 mm and more distributed over 3-7 days) will have the same effect. It can therefore happen that grasses germinate if such conditions prevail. A split application (as recommended in Table 3) is recommended if Dual® Gold is used on such soils. Permeating and / or persistent rain after the split application will have the same effect.

Gardomil® Gold applied post emergence in combination with Servian®.

For the control of nutsedge and broadleaf weeds in maize use 50 g Servian® / ha plus 1,5 l-2,9 l Gardomil® Gold / ha. Refer to the Servian® label for detail information.

Gardomil® Gold applied post emergence in combination with Callisto® + Metagan® Gold.

Gardomil® Gold can be used for the post emergence control of grasses and broadleaf weeds in tankmixtures with Callisto® + Metagan® Gold.

The rate of Gardomil® Gold can be up to 1l/ha.

Refer to the Callisto® and Metagan® Gold labels for detail information.



### **Stale seedbed / minimum tillage / stubble mulch**

Where minimum tillage or stubble mulch is practised, weeds may have emerged at the time of planting. If crops are planted under such conditions or into a stale seedbed, where grass weeds have already emerged and/or the broadleaf weeds have developed beyond the 4 - leaf stage, it is recommended that Gramoxone® be added to Gardomil® Gold according to the recommendations of the manufacturer. The Gramoxone® will destroy the emerged weeds and create a pre-emergence situation for the Gardomil® Gold or Gardomil® Gold plus Dual® Gold to act effectively.

### **Important**

- When Gramoxone® is added, spraying should be carried out prior to the emergence of the crop, as Gramoxone® will damage the crop if it is applied post-emergence.
- In the case of minimum tillage or stubble mulch, the density of the stubble and humus may affect the efficacy of Gardomil® Gold or Gardomil® Gold plus Dual® Gold. Therefore consult a representative of Syngenta or distributor.

Complement®, Callisto®, Dual®, Gardomil®, Gramoxone®, Servian®:  
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L1063558 ZAMB/06Y PPE 4122771

# **Gardomil® Gold** 600SC

**syngenta®**

**KEEP LOCKED UP OUT OF REACH OF CHILDREN.**

**Before opening the container, read the safety advice.**

**Shelf-Life:**

Minimum 2 years if stored in a cool dry place in original unopened container.

**Emergency Call Number: (During Transport)**

Syngenta Alarm Centre in Huddersfield, UK  
Tel.: +44 1484 538 444 / Fax: +44 1484 554 093

**Emergency Call Number:**

Swiss Toxicological Information Centre, (24 h) +41 44 251 51 51

**Manufacturer:**

Syngenta Crop Protection AG, Basle, Switzerland

**Registered and distributed by: Syngenta Zambia Ltd.**

Plot 5255, Mukwa Road, P.O. Box 33088,  
Heavy industrial area, Lusaka, Zambia  
Tel.: +260 211 244 766



## 20 Litres

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 **WARNING** 