

PRIMAGRAM GOLD

Selective herbicide for weed control in maize, sugar cane, and sisal.

Suspension concentrate

Active ingredient content; S-metolachlor 290g/lit. + Atrazine 370 g/lit.

Non-Flammable

"FOR USE AS A HERBICIDE ONLY"

**BEFORE APPLYING THIS PRODUCT READ FULL INSTRUCTIONS
PRINTED ON THE ATTACHED PACKAGE LEAFLET.**

Shelf Life: At least 2 years from date of manufacture in original unopened containers.

Hazard Classification: WHO Class III (slightly hazardous)

Approved by TPRI, Arusha

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Manufactured by: Syngenta Crop Protection AG, Basle, Switzerland

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syngenta

Colour band:BLUE



Mode of Action: Metolachlor is mainly taken up through the shoots of germinating plants and seedlings. Weeds are therefore killed before emergence, at emergence or shortly after emergence. Root uptake is less pronounced and much lower than shoot uptake. Atrazine can be taken up by roots and leaves of the plants.

Spectrum of Activity

Primagram® Gold 660 SC is active against most annual grasses and annual broadleaved weeds.

Highly susceptible weeds

Acanthospermum australe	Portulaca oleraceae
Alopecurus myosuroides	Raphanus raphanistrum
Amaranthus spp.	Senecio vulgaris
Anagallis arvensis	Setaria faberii
Brachiaria deflexa	Setaria glauca
Brachiaria eruciformis	Setaria pallidifusca
Capsella bursa-pastoris	Setaria verticillata
Cerastium arvense	Setaria viridis
Chenopodium spp.	Sherardia arvensis
Chloris virgata	Sinapis spp.
Cleome monophylla	Solanum nigrum
Crotolaria spp.	Stachys spp.
Datura ferax	Stellaria media
Datura stramonium	Thlaspi arvense
Digitaria filiformis	Urochloa panicoides
Digitaria horizontalis	Veronica spp.
Digitaria ischaemum	Vicia spp.
Echinochloa crus-galli	Viola tricolor
Eleusine indica	Fumaria officinalis
Galeopsis tetrahit	Galinsoga parviflora
Hibiscus trionum	Lamium spp.
Lotus corniculatus	Matricaria spp.
Medicago lupulina	Nicandra physalodes
Panicum dichotomiflorum	Panicum laevifolium
Polygonum aviculare	Polygonum persicaria

Directions for Use

To avoid risks to man and the environment, comply with the instructions for use.

Crop	Timing	Rate(lt/ha)	Remarks
Maize	Pre-emergence, or pre-plant incorporation	2.7 - 3.0	PPI application may be preferred under dry surface conditions in regions where long periods without rain prevail after application. Incorporation of Primagram® Gold has to be shallow (5 cm). Early post emergence application (up to 2 leaf stage of the grasses) is recommended on turf soils.
Sugar cane	Pre-emergence application	2.7 - 3.0	Apply after sugar cane sets have been planted, but before weeds emerge.

Moderately susceptible weeds

Abutilon theophrasti	Galium aparine
Acanthospermum hispidum	Geranium sanguineum
Ambrosia artemisiifolia	Linaria spp.
Antirrhinum spp.	Malva neglecta
Atriplex spp.	Plantago spp.
Cenchrus echinatus	Ranunculus spp.
Cenchrus pauciflorus	Sida spp.
Commelina benghalensis	Sonchus spp.
Cyperus esculentus	Sorghum bicolor
Euphorbia spp.	Sorghum halepense*
Tagetes minuta	
* Seedlings	

Limitations

Resistance

Primagram® Gold contains atrazine which belongs to the class of triazines. The repeated use of atrazine or of herbicides with the same mode of action is known to lead under certain conditions to a selection of resistant weeds. Certain agronomic practices may reduce the likelihood that resistant weed population will develop and integrated strategies are known to manage such problem weeds. For specific recommendations please consult your local Syngenta representative, distributor or dealer.

Please note: Avoid using Primagram® Gold where adjacent desirable plants may be injured.

Application Information

Spray Equipment

For the application of Primagram® Gold, tractor boom sprayers, knapsack sprayers, centre pivot irrigation systems and aircraft are recommended. Stop spraying if the wind speed is higher than 5 m/s. All application equipment has to be properly calibrated before use, with regard to forward speed, flow rate and evenness of distribution. With tractor boom sprayers volume rates of 200 – 400 lts/ha are best. Use 110° flat fan low drift nozzle types at 1.5 – 3 bar pressure and 40 – 50 cm boom height. With knapsack sprayers flood jet nozzles at volume rates of at least 80 lts/ha are recommended. The spray lance must be kept steady. Do not swing the lance. Use only aircraft equipped with boom and flat fan nozzles. The nozzles should have a spray angle of 65 – 90° and directed in relation to flight direction 180 – 135° backwards. Spray volumes of 20 – 50 lts/ha are best. Rotary atomizers are not recommended. Stop spraying if temperature is higher than 30° C or the relative humidity is lower than 60%.

Mixing

Make certain the sprayer is clean and not contaminated. Calculate carefully the required amount of spray mixture in order to prevent any left over in the spray tank after treatment. For band treatments, adjust volumes proportionally to the ratio of treated / cropped area. Rinse empty containers three times and add the rinsate to the spray mixture. Fill 1/3 - 1/4 of the spray tank with clean water, start agitation, add the calculated and measured quantity of product and continue to fill the spray tank with agitation. Continue agitation during mixing and application to maintain a uniform spray mixture. When filling the spray tank the filling hose should always be above water level in order to prevent suckback. Flush the sprayer with clean water after application or at the end of the day and spray the rinsing on the field. Clean also the filters.

Compatibility

Primagram® Gold can be mixed in the tank with other dry or liquid herbicides commonly used in the respective crops. Primagram® Gold 660 SC can also be mixed with fertilizers. It is always advised to locally check compatibility.

Timing

1. Pre-plant surface application. Only for minimum tillage or no tillage systems. Primagram ® Gold can be applied up to 45 days before planting.
2. Pre-plant incorporated (ppi). Apply Primagram ® Gold to the soil and incorporate into the top 5 cm. of soil within 14 days before planting using a finishing disk, harrow, rolling cultivator or similar implement. Use pre-plant incorporated application when a period of dry weather after application is expected.
3. Pre-emergence. Apply Primagram ® Gold during or after planting but before weeds and crop emerge.
4. Early post-emergence. When grasses are beyond 2- leaf stage as a less reliable emergency treatment.

Safety Aspects

Precautionary measures

KEEP LOCKED UP OUT OF REACH OF CHILDREN and other unauthorized persons and animals.

Operator safety

AVOID any contact of eyes, skin or clothing with concentrate or spray mist. DO NOT eat, drink or smoke while handling the product, wash hands and face before doing so. If any indisposition occurs, stop work, follow first aid measures, and call a physician. Spray strictly with the wind to prevent prolonged or repeated exposure to the spray mist. WEAR protective clothing, i.e. for preparation: impermeable gloves, overalls, and eyeface protection, for application: overalls, hat or cap, and solid footwear. AFTER USE, thoroughly clean protective equipment and wash entire body and change clothing. Wash contaminated clothing before re-use.

First Aid

If poisoning is suspected, stop work immediately and call a physician. Show the label to the physician. In case of contact with the skin, remove contaminated clothing, and wash affected body parts immediately with plenty of water and soap. Rinse splashes from eyes with abundant fresh and clean water for several minutes. If inhaled, move to clean air. If swallowed, repeatedly administer medicinal charcoal in plenty of water. Seek medical advice immediately if a large volume of concentrate was ingested. **Note:** Never give anything by mouth to an unconscious patient and never induce vomiting.

Environment and wildlife

Toxic to fish, very toxic to algae. DO NOT contaminate water used for irrigation or domestic purposes and water areas, such as ponds, ditches, lakes, drainage systems, etc. by disposal of product waste. Newly treated areas must not be grazed and livestock is to be kept out.

Spillage and leakages

Remove heavily contaminated soil layer and bury in a safe place away from water supplies. Collect up spilt material thoroughly and bury it in a safe place or put it in a waste bin or in a plastic bag and dispose of on a landfill-site approved for pesticides.

Product and container disposal

Local regulations governing the disposal of agricultural chemicals must be followed. Dispose of surplus product on a landfill-site approved for pesticides or bury in a safe place away from water sources. Dilute surplus application mixture, pour it broadcast on fallow land. Empty the containers well, rinse several times and spray the rinsate on fallow land. Dispose of the empty plastic containers by burning in a safe place away from crops and animals. DO NOT RE-USE EMPTY CONTAINERS FOR ANY OTHER PURPOSE.

Storage

Store away from sun and damp, in a well ventilated area away from food and feed, in a locked place. Do not contaminate water, food or feed. Avoid storage above +35⁰ C. DO NOT stack containers more than 2 m high, in order to avoid compaction or damage.

Shelf life

At least two years from the date of manufacturing, in original unopened containers.

User's risk

The user bears risk for damage resulting from factors beyond the manufacturer's control.

Resistant strains of weeds may develop or may exist against which herbicides may be less effective. Since the occurrence of such strains can not be forecast, neither the manufacturer nor its distributor can assume responsibility for any loss or damage caused by failure to control resistant weeds.

All recommendations for use of the herbicide are based on the current state of the manufacturer's knowledge. Since the manufacturer can not control the farmer's choice of herbicides, its application, use, storage, or other agronomic practices, the manufacturer can not assume responsibility therefor.

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**Before using the product, please read the attached label and accompanying packaging leaflet.
Use pesticides safely**

Emergency Call: Syngenta Alarm Centre, Huddersfield, UK; Phone: + 44 1484 538 444, Fax: + 44 1484 433 197