

L157274 ZIMB/02P PPE 336322

# Dual Magnum<sup>®</sup>

960EC

syngenta<sup>®</sup>

### Precautions:

1. Handle with care: avoid splashing / contact; poisonous by swallowing, inhalation and contact with the skin.
2. DANGEROUS TO FISH.
3. KEEP OUT OF REACH OF CHILDREN.
4. KEEP APART FROM FOOD, FOOD-STUFFS, seeds and fertilisers.
5. Store in original container in a cool, dry place and KEEP UNDER LOCK AND KEY.
6. Use only on the crops for which the product is registered.
7. Avoid drift onto adjacent crops or soil.
8. After use, wash sprayer out thoroughly and dispose of washings in a safe place, eg. on waste ground. DO NOT contaminate water supplies.
9. Triple rinse empty container and add rinsate to the spray mixture.
10. Destroy empty container and place in secure disposal site. DO NOT use for any other purpose.



DATE OF MANUFACTURE:  
DATUM VAN Vervaardiging:

BATCH NO:  
LOT-NO:

TM

## 5 Litres

Product names marked ® or TM, the ALLIANCE FRAME the SYNGENTA Logo and the PURPOSE ICON are Trademarks of a Syngenta Group Company

**S-PAC**

DESCRIPTION:  
LBL LFT S BOOKLET 4 TO 16 PG/RH 130x140 MM

SCALE:  
1:1

ISSUE NO:  
SYN002

ISSUE DATE:  
03.08.2009

**290228**

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**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 a large quantity of medical charcoal in plenty of water.

**Note to Physician:** No specific antidote is known. Apply symptomatic therapy.

**Warranty:** Before applying the product read the attached package leaflet.

The user bears the 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 cannot be forecast, neither the manufacturer nor its distributors can assume responsibility for any loss or damage caused by failure to control resistant weeds.

All recommendations for the use of the herbicide are based on the current state of the manufacturer's knowledge. Since the manufacturer cannot control the farmers' choice of herbicides, its application, use, storage or processing of the product or other agronomic practices, the manufacturer cannot assume responsibility therefore.

**Mode of Action:** Dual Magnum® 960 EC is a selective pre-emergence herbicide. It is absorbed by the shoots of the germinating weeds before emergence above ground.

**Spectrum of Activity:** The following weeds will normally be controlled by Dual Magnum® 960 EC at the recommended rates:

|                               |                    |
|-------------------------------|--------------------|
| <i>Brachiaria eruciformis</i> | Sweet signal-grass |
| <i>Brachiaria deflexa</i>     | Annual brachiaria  |

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*Chloris virgata*  
*Dactyloctenium aegyptium*  
*Digitaria sanguinalis*  
*Echinochloa crusgalli*  
*Echinochloa colonum*  
*Eleusine indica*  
*Panicum laevifolium*  
*Panicum novemnerve*  
*Setaria pumila*  
*Setaria verticillata*  
*Urochloa panicoides*

Feather-top chloris  
 Crow's foot  
 Crab finger-grass  
 Barn-yard millet  
 Jungle rice grass  
 Rapoko grass  
 Vlei panicum  
 Black seed panicum  
 Annual timothy  
 Burgrass  
 Garden urochloa

Control of the following weeds may be variable depending on dosage applied, soil types and subsequent weather conditions:

|                               |                |
|-------------------------------|----------------|
| <i>Amaranthus hybridus</i>    | Cape pigweed   |
| <i>Amaranthus spinosus</i>    | Thorny pigweed |
| <i>Amaranthus thunbergii</i>  | Red pigweed    |
| <i>Commelina benghalensis</i> | Wandering Jew  |
| <i>Nicandra physalodes</i>    | Apple of Peru  |

**Yellow nutsedge (*Cyperus esculentus*)**

Up to 95% control of yellow nutsedge can be obtained on soils with less than 35% clay (not turf soils) provided the following conditions are met:

1. Field (Annual) Crops
  - (a) Planting is immediately preceded by a thorough cultivation to ensure that all germinated yellow nutgrass plants are destroyed.  
Where the plants have emerged ploughing with a mould-board plough is essential.
  - (b) A relatively fine, even and firm seed bed is prepared.
  - (c) Herbicide application is followed by at least 10-20 mm of soft soaking rain (or irrigation) depending on soil type; to move herbicide into the soil prior to the emergence of yellow nutsedge (normally 7-10 days after cultivation). Should any nutsedge or other weeds emerge after application these should be destroyed by a light cultivation.

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## 2. Plantation (Perennial) Crops

- (a) Acceptable yellow nutsedge control may be achieved when any emerged nutsedge plants are destroyed just prior to the application of Dual Magnum® 960 EC which must be followed by 20 mm of irrigation or rain to activate the herbicide.
- (b) Here a contact herbicide is to be used as a tank mix with Dual Magnum® 960 EC to destroy emerged weeds compatibility must be checked. Observe the WARNINGS given in the contact herbicide label.
- (c) Any nutsedge which emerges after the application of Dual Magnum® 960 EC should be destroyed mechanically or by using a contact herbicide.

### Other features and Warnings

1. Use strictly as recommended.
2. Ensure that the seed of the crop planted is covered with at least 20 mm of firm soil before application of Dual Magnum® 960 EC. Avoid deep press wheel depressions.
3. For transplanted crops ensure that the soil in the root zone is firm and that no depressions are left around the stems of transplanted seedlings. Treated soil must not be allowed to come into contact with the roots of seedling transplants.
4. SPECIAL WARNING: TOBACCO. When Dual Magnum® 960 EC is applied POST PLANTING this should be done within a few days (less than one week) of transplanting. CONSULT THE TOBACCO RESEARCH BOARD GROWERS HANDBOOK FOR DIRECTIVES AND APPLICATION GUIDELINES.
5. Not recommended on heavy vlei or poorly drained soil types.
6. Do not apply to inbred parent lines of maize hybrids.

### Directions for use: TRB Certificate No.: 11-14-C-85.

#### Dosage Rates

(Full cover application) (see table overleaf)

It is recommended that prior to selecting a dosage rate, the user:

- a. Submits soil samples from lands to be treated for percentage clay determination;

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- b. Decides what weed spectrum is to be controlled. If yellow nutsedge suppression is desired - Select Rate I from table. If the spectrum is mainly annual grasses - select Rate II.

### Ground Application

Dual Magnum® 960 EC can be applied with any high volume sprayer, properly calibrated and fitted with sufficient agitation. Choice of fan-type nozzles should be such as to ensure even distribution and optimal recovery of the spray liquid. A spray pressure of 200 kPa should not be exceeded. The recommended amount of Dual Magnum® 960 EC should be applied in at least 150 litres of water per hectare.

**Aerial Application:** Dual Magnum® 960 EC may be applied by aircraft provided that uniform distribution and adequate chemical recovery within the treated area can be obtained. These conditions may be achieved where the following parameters are met:

1. Increase the selected dosage rate by 10 or 15% to compensate for chemical losses.
2. To ensure even distribution apply 25 litres of spray mixture per hectare (preferably 30 litres per hectare).
3. a) The aircraft should be calibrated and the boom fitted with flatfan nozzles in order to achieve a recovered spray VMD of 450 microns on a 16 metre flight interval for Pawnee and 18 metre track for Thrush Commander Aircraft.
3. b) The optimal flight height is three metres.
4. DO NOT spray under hot, dry windy conditions. The relative humidity must be above 50% and wind speed not exceeding 16 km/h
5. MARK THE LANDS TO BE SPRAYED ACCURATELY.
6. It is essential to contact the aerial spray contractor to obtain an assurance the parameters 2, 3 and 4 are met at the time of application.

### Preparing the mixture

#### (a) Dual Magnum® 960 EC alone.

- Half fill spray tank with water, then pour the required amount

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of Dual Magnum® 960 EC into the spray tank whilst the water is being stirred. Top up with water to the final volume required.

**(b) Dual Magnum® 960 EC in tank mixture.**

When SC, FW or WP formulations of herbicides are mixed with Dual Magnum® 960 EC, the SC, FW or WP must be added first. Dual Magnum® 960 EC diluted with water must be added last, just before the required volume is reached. Ensure thorough agitation of the mixture in the tank during mixing and spraying.

**Compatibility:** Dual Magnum® 960 EC is compatible with the herbicides mentioned in the table on page 7 when mixed as recommended and soft water is used. The quality of water can affect the compatibility of Dual Magnum® 960 EC with other products. A compatibility test must be done with the water and products to be used. Tank mixtures must be applied immediately after mixing. Do not pre-mix large quantities. Do not mix Dual Magnum® 960 EC with products not mentioned on this table without consulting a representative of the supplier.

**Registered by: Syngenta Agro Services**

P.O. Box 1088, Harare  
Suite Za, Julia's Parade, Sam Levy's Village  
Borrowdale, Tel.: 0772 402 477

**Emergency Call Number:**

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

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**Manufacturer:**

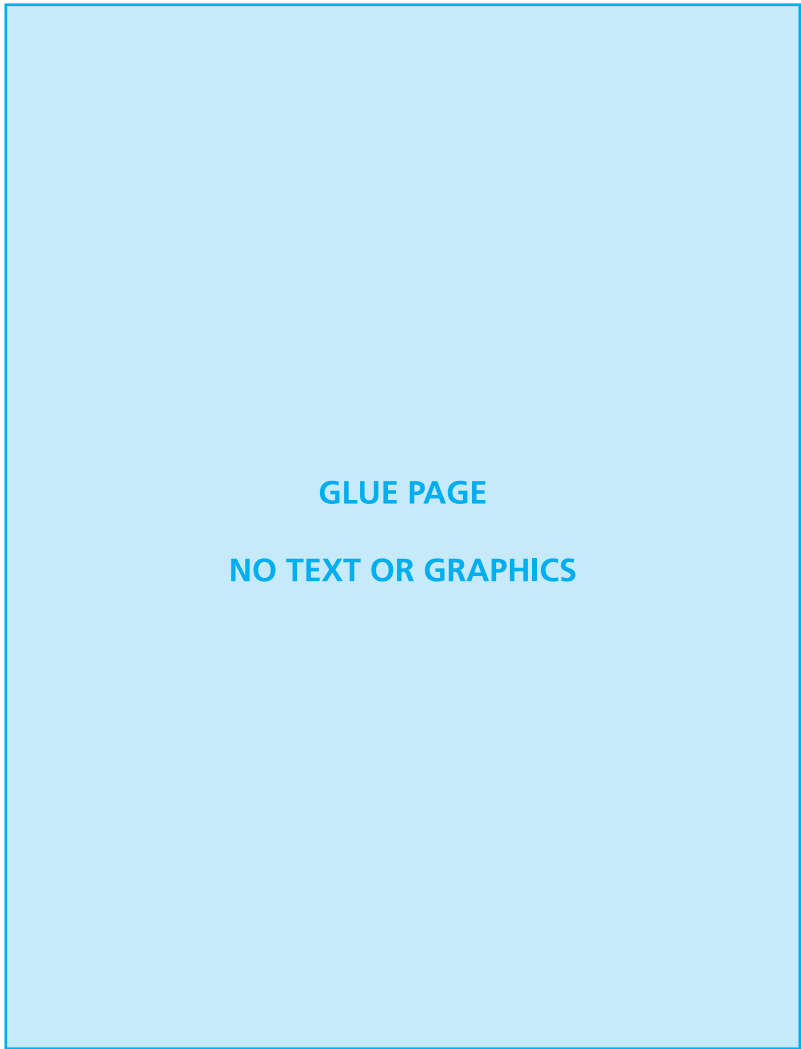
Syngenta Crop Protection AG, Basle, Switzerland

**Dosage Rates** (full cover application)  
Not recommended on heavy vlei type soils or on poorly drained soil types.

| Crop                                    | % Clay              | Litres Dual Magnum® 960 EC |                   |  |                            | Suggested registered broadleaf herbicides – see respective labels                        |
|---|---------------------|----------------------------|-------------------|--|----------------------------|--|
|   |                     | When used alone            |                   | In combination with registered broadleaf herbicide |                            |  |
|   |                     | I*                         | II**              | I*   | II**                       |  |
| Cotton                                  | <30<br>>30          | —<br>—                     | —<br>—            | 0.7<br>0.9   | 0.7<br>0.7                 | Cotoran®, Cotogard® or Gesagard®   |
| Field and kidney beans                  | <30<br>>30          | 1.0<br>1.2                 | 0.9<br>1.0        | —<br>—   | —<br>—                     | Nil  |
| Soyabeans                               | <30<br>>30          | 1.0<br>1.2                 | 0.9<br>1.0        | 0.7<br>0.9   | 0.7<br>0.7                 | terbutryne or metribuzin   |
| Groundnuts                              | <30<br>>30          | 1.0<br>1.2                 | 0.9<br>1.0        | 0.7<br>0.9   | 0.7<br>0.7                 | terbutryne or Gesagard®  |
| Sunflowers                              | <30<br>>30          | 1.0<br>1.2                 | 0.9<br>1.0        | 0.7<br>0.9   | 0.7<br>0.7                 | Gesagard®  |
| Potatoes                                | <30<br>>30          | —<br>—                     | —<br>—            | 1.0<br>1.2   | 0.7<br>0.9                 |  |
| Sugarcane                               | <30<br>>30          | —<br>—                     | —<br>—            | 1.0<br>1.2   | 0.7<br>0.9                 | Gesaprim® or Gesapax®. Use 1.4 l/ha Dual Magnum® 960 EC against <i>Panicum maximum</i> . |
| Maize                                   | <16<br>16-30<br>>30 | 1.0<br>1.0<br>1.2          | 0.9<br>0.9<br>1.0 | 0.7<br>0.9<br>1.0                                  | 0.65-<br>0.7<br>0.7<br>0.9 | Gesaprim®. * Use lower rate against atrazine - susceptible grasses.                      |
| Tobacco TRB Certificate No.: 11-14-C-85 | <30                 | 1.5                        | 1.0               |  |                            | For application directives and guidelines refer to TRB Growers Handbook.                 |

\* With the need of yellow nutsedge suppression.

\*\* Without yellow nutsedge suppression.



**GLUE PAGE**

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