



We create chemistry

Stellar® Star

Be a winner with the selective herbicide for grasses and broadleaf weeds in maize and sugarcane

A soluble liquid herbicide for the control of early post-emergent annual grasses and broadleaf weeds (as specified) in maize and sugarcane.



NET VOLUME: **1 L**

| | | | |
|-------|----|---|------------|
| GROUP | F2 | O | HERBICIDES |
|-------|----|---|------------|

Active ingredients:
Topramezone 50g/L
Dicamba 160g/L

HAZARD STATEMENT

Very Toxic to aquatic life.
May damage the unborn child.

PRECAUTIONARY STATEMENTS

Keep out of reach of Children.
Wear protective glove/clothing/eye protection.
If medical advice is needed have product label at hand.

Imported by:

BASF Zambia Limited, P.O.BOX 33764, DG Office Park, 1 Chila Road, LUSAKA
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Manufactured by:

BASF Group
Headquarter: 67056 Ludwigshafen, Germany
International Emergency Number: +49 180 2273 122

ZEMA PRODUCT NUMBER:



® = Registered trademark of BASF



DANGER



81142114 ZM 2030



READ THE LABEL BEFORE USING THE PRODUCT

WARRANTY: Although this remedy has been tested under a large variety of conditions the registration holder does not warrant, that it will be efficacious under all conditions because the action and effect thereof may be affected by factors such as abnormal climatic- and storage conditions; quality of dilution water, compatibility with other substances not indicated on the label and the occurrence of resistance of the disease, weed or pest, against the remedy concerned, 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 the failure of the user to follow the label instructions or the occurrence of conditions which could not have been foreseen in terms of the registration. Consult the supplier in the event of any uncertainty.

WARNINGS:

- **ALLOW 14 DAYS BETWEEN LAST APPLICATION AND HARVEST OR GRAZING OF MAIZE**
- Handle with care.
- Harmful when swallowed.
- Keep locked up and out of reach of children, uninformed persons and animals.
- Toxic to aquatic organisms.
- Store in a cool dry place away from food and feedstuffs.
- May cause harm to the unborn child.
- Do not smoke, eat or drink during mixing and spraying operations.
- Causes mild skin irritation.

PRECAUTIONS:

- Do not inhale spray mist or dust.
- Wear suitable protective clothing and face shield when handling the concentrate.
- Wash contaminated clothing thoroughly.
- Wash with soap and water after accidental skin contact.
- Prevent contamination of food, feed, drinking water and eating utensils.
- Avoid spray drift onto other crops, grazing, rivers, dams and areas not under treatment.
- Triple rinse empty containers in the following manner: Invert the empty container over the spray or mixing tank and allow to drain for at least 30 seconds after the flow has slowed down to a drip. Thereafter, rinse the container three times with a volume of water equal to a minimum of 10% of that of the container. Add the rinsings to the contents of the spray tank before destroying the container in the prescribed manner.
- Destroy empty container by perforation and flattening and dispose of it in a safe way and never re-use for any other purpose.
- Do not spray over the top of the maize when it has reached 80 cm. After the maize has reached 80 cm height apply Stellar® Star between the rows.

FOR SPECIFIC INFORMATION ON RESISTANCE MANAGEMENT, CONTACT THE REGISTRATION HOLDER, OR BASF.

FIRST AID MEASURES

Remove contaminated clothing and seek medical advice.
Have the product label/container with you when calling the Doctor.
First Aid providers must wear protective clothing to prevent exposure.

General advice: Avoid contact with the skin, eyes and clothing.

Take off immediately all contaminated clothing.

If difficulties occur: Obtain medical attention.

Show container, label and/or safety data sheet to physician.

If inhaled: Keep patient calm, remove to fresh air and seek medical attention.

On skin contact: After contact with skin, wash immediately with plenty of water and soap. If irritation develops, seek medical attention.

On contact with eyes: Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion: Do not induce vomiting unless told to by a poison control center or doctor.

Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.

Rinse mouth immediately and then drink plenty of water, seek medical attention.

Note to physician: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

DIRECTIONS FOR USE: USE ONLY AS DIRECTED

COMPATIBILITY:

Stellar® Star is compatible with atrazine, terbutylazine, Basagran®, halosulfuron, Fastac® EC & Fastac® SC.

Do not apply products containing cyanazine with Stellar® Star.

Stellar® Star can be used sequentially or in combination with soil or foliar applied insecticides registered for use in maize. Apply within label conditions for each product.

MIXING INSTRUCTIONS:

Three-quarter fill the spray tank with clean water. Shake the Stellar® Star container well. Measure the required volume of Stellar® Star and add this to the spray tank. Fill the spray tank with water to the required level while maintaining agitation to ensure thorough mixing of the spray mixture before spraying commences. Maintain agitation while spraying. The prepared spray mixture must not be left in the spray tank for any length of time, e.g. overnight.

It is recommended that Frontier® Optima be applied as a post-plant, pre-emergence application before Stellar® Star is used. Stellar® Star should be used in a programme with Frontier® Optima for optimum results.

USE RESTRICTIONS:

Do not apply Stellar® Star in the following situations:

- On soils with a compaction layer, on lands where water logging often occurs, or soils with a nutrient deficiency.
- On inbred parent plants of maize hybrids or experimental or newly released cultivars, without first consulting the advice of the distributor or manufacturer.
- DO not spray over the top of the maize when it has reached 80 cm. After the maize has reached 80 cm height apply Stellar® Star between the rows.

GROUND APPLICATION:

- Stellar® Star can be applied as an overall application, using in 200 to 300L of water per hectare, or as a band application, using the corresponding amount of water per hectare.
- Any medium or high volume tractor-mounted sprayer can be used as long as it is fitted with an effective tank agitation system. Ensure that the sprayer can be properly calibrated and that the spray-boom is fitted with suitable spray nozzles (hollow-cone) to facilitate an even distribution of the herbicide on the weeds.

- Stellar® Star should be applied during favourable growing conditions for optimum crop tolerance and weed control. Apply Stellar® Star as a post-emergence treatment to maize when weeds are actively growing.
- Avoid disturbing (e.g. cultivation) treated areas for at least seven (7) days following an application of Stellar® Star to allow best herbicide uptake, translocation and weed control.
- Weeds must be thoroughly covered with spray. Dense leaf canopies shelter small weeds and can prevent adequate spray coverage.

SPRAYER CLEANING:

After spraying, thoroughly clean and flush out application machinery with a minimum of three rinses, to ensure that no traces of product remain.

WAITING PERIOD FOR FOLLOW-UP CROPS:

- To avoid possible damage to follow-up crops, the waiting periods as indicated below should be adhered to between the last application of Stellar® Star and the planting of the follow-up crop.
- However, the waiting periods mentioned here will only be valid if the standard, recommended Stellar® Star rate was applied.

| CROP | WAITING PERIOD |
|---|-------------------|
| Maize, sugarcane | No waiting period |
| Grain sorghum | 2 months |
| Wheat, barley | 4 months |
| Beans, soybeans, groundnuts, peas, potatoes | 9 months |
| All other crops | 12 months |

Warning: Possible damage to triazine and topramezone 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 and/or topramezone were previously applied. This is due to the herbicide molecules being replaced on the clay complex with calcium cations and the herbicide thus becoming more available in the soil-water complex.
- If soils have been treated with lime, only maize should be planted in the season directly after treatment. Sensitive crops like beans, soybeans, sunflowers and all cereals (e.g. wheat) should not be planted in the season after lime treatment since crop damage might occur. This applies even if triazines were used during crop rotation in previous years.

APPLICATION RATE:

| CROP | Weeds | DOSAGE | DIRECTIONS FOR APPLICATION |
|-----------|---|---------|---|
| Maize | Annual grasses and broadleaf weeds as listed in tables 1 and 2 on the following pages | 1.0L/ha | Apply Stellar® Star as an early post-emergence application at the 3-4 (not taller than 5 cm) leaf stage of the weeds. Do not spray over the top of the maize when it has reached 80 cm. After the maize has reached 80 cm height apply Stellar® Star between the rows |
| Sugarcane | Annual grasses and broadleaf weeds as listed in tables 1 and 2 on the following pages | 1.5L/ha | Apply Stellar® Star as an early post-emergence when the weeds are about 4 leaf stage (less than 5 cm tall) |

It is recommended to apply Frontier® Optima as a post-plant, pre-emergence application in maize before Stellar Star is used (Refer to the Frontier® Optima Label)

Stellar® Star (dose rate 700ml/ha) can be tank mixed with 1.5L/ha atrazine or 1.25L/ha atrazine + terbuthylazine based product for residual weed control.

Where moderate population of Yellow nutsedge (*Cyperus esculentus*) occurs, It is recommended to use Basagran® in a tank mix with Stellar® Star (Refer to the Basagran® Label).

WEEDS CONTROLLED

TABLE 1: Grass weeds controlled by Stellar® Star

| Scientific Name | Common Name |
|---------------------------------|----------------------------|
| <i>Brachiaria eruciformis</i> | Sweet signalgrass |
| <i>Chloris gayana</i> | Rhodes grass |
| <i>Chloris virgata</i> | Feathertop chloris |
| <i>Dactyloctenium aegyptium</i> | Crowfoot |
| <i>Digitaria eriantha</i> | Common fingergrass |
| <i>Digitaria sanguinalis</i> | Crab fingergrass |
| <i>Echinochloa colona</i> | Marsh grass |
| <i>Echinochloa crus-galli</i> | Barnyardgrass |
| <i>Eleusine corocana</i> | Goosegrass |
| <i>Eragrostis curvula</i> | Weeping lovegrass |
| <i>Eragrostis tef</i> | Tef grass |
| <i>Lolium multiflorum</i> | Italian ryegrass |
| <i>Panicum maximum</i> | Common buffalograss |
| <i>Panicum schinzii</i> | Sweet buffalograss |
| <i>Tragus berteronianus</i> | Small carrot seed grass |
| <i>Urochloa mosambicensis</i> | Bushveld herringbone grass |
| <i>Urochloa panicoides</i> | Herringbone grass |

TABLE 2: Broadleaf weeds controlled by Stellar® Star

| Scientific Name | Common Name |
|--------------------------------|-------------------|
| <i>Acanthospermum hispidum</i> | Upright starbur |
| <i>Euphorbia helioscopia</i> | Umbrella milkweed |
| <i>Amaranthus deflexus</i> | Perennial pigweed |
| <i>Fallopia convolvulus</i> | Climbing knotweed |
| <i>Amaranthus hybridus</i> | Common pigweed |
| <i>Flaveria bidentis</i> | Smelter's bush |
| <i>Amaranthus spinosus</i> | Thorny pigweed |
| <i>Gisekia pharmacoides</i> | Gisekia |

| Scientific Name | Common Name |
|--------------------------------|-----------------------|
| <i>Amaranthus thunbergii</i> | Red pigweed |
| <i>Helianthus annuus</i> | Sunflower (volunteer) |
| <i>Bidens pilosa</i> | Blackjack |
| <i>Hibiscus trionum</i> | Bladder weed |
| <i>Chenopodium album</i> | White goosefoot |
| <i>Ipomoea purpurea</i> | Morning glory |
| <i>Chenopodium carinatum</i> | Green goosefoot |
| <i>Nicandra physaloides</i> | Apple of Peru |
| <i>Citrullus lanatus</i> | Wild watermelon |
| <i>Physalis angulata</i> | Wild gooseberry |
| <i>Cleome gyandra</i> | Spider wisp |
| <i>Portulaca oleraceae</i> | Purslane |
| <i>Cleome monophylla</i> | Spindlepod |
| <i>Richardia brasiliensis</i> | Tropical richardia |
| <i>Commelina benghalensis</i> | Wandering jew |
| <i>Schkuhria pinnata</i> | Dwarf marigold |
| <i>Crotalaria sphaerocarpa</i> | Mealie crotalaria |
| <i>Tagetes minuta</i> | Tall Khaki weed |
| <i>Datura ferox*</i> | Large thorn apple |
| <i>Tribulus terrestris</i> | Devil's thorn |
| <i>Datura stramonium*</i> | Common thorn apple |
| <i>Xanthium strumarium*</i> | Cocklebur |
| <i>Emex australis</i> | Spiny emex |

* Plants of these species can germinate from seed deep in the soil and may emerge some time after the majority of other weeds have emerged and therefore may not be adequately controlled.

RESISTANCE WARNING:

For resistance management, Stellar® Star is a Herbicide Group Code F2 & O herbicide. Any weed population may contain individuals naturally resistant to Stellar® Star and other Group Code F2 & O herbicides. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly and exclusively in programmes. These resistant weeds may not be controlled by Stellar® Star or any other Group Code F2 & O herbicides. To delay herbicide resistance:

- Avoid exclusive repeated use of herbicides from the same Herbicide Group Code. Alternate or tank mix with products from different Herbicide Group Codes.
- For tank mixing or alternation with products in other Herbicide Group Codes, refer to applicable individual product labels.
- Integrate other control methods (chemical and cultural) into weed control programs.

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