



syngenta

Reg. No. L9230 Act No. 36 of 1947

A water soluble post-emergent herbicide
for the control of annual broadleaf- and
grass weeds in Clearfield® Sunflowers.

GROUP 2 HERBICIDE

Active Ingredients
Imazapyr (imidazolinone)..... 15 g/l
Imazamox (imidazolinone)..... 33 g/l

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



WARNING

Hazard statements: Suspected of damaging the
unborn child. Very toxic to aquatic life with long-lasting
effects.

Precautionary statements: If medical advice is
needed, have product container or label at hand. Keep
out of reach of children. Read label carefully and follow
all instructions. **Prevention:** Wear protective gloves,
protective clothing and eye- or face protection. Obtain
special instructions before use. Do not handle until all
safety precautions have been read and understood.
Collect spillage. If exposed or concerned, get medical
attention. **Storage:** Store locked-up. **Disposal:**
Dispose of contents and container to hazardous or
special waste collection point.

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1. WARNINGS:

Hazard statements: Suspected of damaging the unborn
child. Very toxic to aquatic life with long-lasting effects.

Withholding period: Minimum number of days between last
application and harvest.

CLEARFIELD® SUNFLOWER..... 70 days

- Handle with care
- Poisonous when swallowed.
- Harmful to aquatic organisms, may cause long-term
adverse effects in the aquatic environment.
- Store in a cool place away from food, feeds and seed.
- Keep out of reach of children, uninformed persons and
animals.
- To avoid injury to other crops, spray equipment used
for **CAPTORA™** applications must be drained after use
and thoroughly cleaned with water before being used to
apply other products to crops.
- Use only on qualified CLEARFIELD® Sunflower varieties
as registered by the relevant seed companies.

Although this remedy has been extensively 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 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 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 and the environment, or
harm to people or animals or for lack of performance of the
remedy concerned due to failure of the user to follow the
label instructions or to the occurrence of conditions, that
could not have been foreseen in terms of the registration.
Consult the supplier in the event of any uncertainty.

2. PRECAUTIONS:

Precautionary statements: Prevention: If medical advice
is needed, have product container or label at hand. Keep

out of reach of children. Read label carefully and follow all
instructions. Wear protective gloves, protective clothing and
eye- or face protection. Obtain special instructions before
use. Do not handle until all safety precautions have been read
and understood. Collect spillage. If exposed or concerned,
get medical attention. **Storage:** Store locked-up. **Disposal:**
Dispose of contents and container to hazardous or special
waste collection point.

- Do not inhale fumes or spray mist.
- Wash with soap and water after use and accidental skin
contact.
- Do not eat, drink, or smoke while mixing or spraying
unless having washed hands and face.
- Avoid spray drift onto other crops, grazing, rivers, dams
and any area not under treatment.
- Thoroughly wash and rinse spray equipment after use
and dispose of wash water where it will not contaminate
crops, grazing, rivers and dams.
- Do not apply where the roots of desirable plants can
absorb the chemical.
- TRIPLE RINSE empty container 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 (3) times with a volume of water equal to a
minimum of 10% of that of the container. Add the rinsate
to the contents of the spray tank before destroying the
container in the prescribed manner.
- Do not re-use the empty container for any other purpose.
- Prevent contamination of food, feed, drinking water and
eating utensils.

First Aid and Medical Treatment

- **Eye contact:** Wash affected eyes for at least 15 minutes
under running water with eyelids held open.
- **Ingestion:** Immediately rinse mouth and then drink 200
– 300 ml water, seek medical attention.
- **Skin contact:** Remove contaminated clothing. Wash
thoroughly with soap and water.
- **Inhalation:** Keep patient calm, remove to fresh air, seek
medical attention.

Note to doctor: Treat according to symptoms

(decontamination, vital functions), no known specific antidote.

3. RELEVANT SUBSTANCES:

Chemical name	
imazamox (ISO); (RS)-2-(4-isopropyl-4-methyl-5-oxo-2-imidazolin-2-yl)-5-methoxymethylnicotinic acid	
Classification	Concentration (% w/w)
114311-32-9	≥ 1,38

4. RESISTANCE MANAGEMENT:

CAPTORA™ is a group code 2 herbicide, belonging to the Imidazolinone group of herbicides. The product has the acetolactate-synthase (ALS) inhibitor mode of action. In any weed population there are certain weed biotypes that are naturally resistant to herbicides with specific modes of action. The repeated and possibly uninterrupted use of herbicides with the same mode of action, cause these naturally occurring biotypes to become dominant in numbers over time. These resistant weeds are not controlled and the result is experienced as poor weed control, although the herbicide may have been applied at the correct dosage rate and timing. This is also true for **CAPTORA™** and other ALS-inhibiting herbicides. Therefore, BASF SA (Pty) Ltd cannot be held responsible for poor control of such resistant weeds, or any losses that may result from the use of **CAPTORA™**.

The following actions are recommended to delay the selection of resistant weeds:

- It is important to understand and know the modes of action of the different herbicides available.
- Apply only one (1) application of **CAPTORA™** per season.
- If any further herbicide applications are required during this season on this land, use herbicides with a different mode of action.

For specific information on resistance management contact the registration holder, BASF SA (Pty) Ltd or the distributor SYNGENTA SA (Pty) Ltd.

5. USE RESTRICTIONS:

- **CAPTORA™** can only be used on CLEARFIELD® Sunflower hybrids. Non-CLEARFIELD® hybrids of Sunflower will die if treated with **CAPTORA™**. (For information on where to obtain CLEARFIELD® Sunflower, please contact your agent or nearest Syngenta SA office).
- Avoid the application of **CAPTORA™** to soils with pH (KCl) below 4.5 or above 7.2.
- Avoid overlaps when spraying.
- **DO NOT** use any additional wetters, spreaders or other adjuvants as **CAPTORA™** has already been formulated with optimised amounts of surfactants. The only exception is the addition of Imiboost, refer to 6.1 GENERAL.
- Do not apply when wind velocity exceeds 15 km/h, when temperature inversion conditions exist or when the spray mist may drift onto sensitive crops. Ideally a buffer zone should be established between the area to be sprayed and sensitive crops.
- Sensitive crops include, but are not limited to vegetable crops, cereal and other grain crops and sunflower varieties other than CLEARFIELD® Sunflower.

To avoid possible damage to follow-up crops, the following waiting periods should be taken into consideration after the application of **CAPTORA™**. A test planting is nevertheless recommended.

Crop	Waiting period
CLEARFIELD® Sunflower	None
Wheat	4 months
Maize All maize producing areas (including irrigation)	10 months
All other crops	20 months

NOTE: The above-mentioned waiting periods will only be valid if the correct quantity of **CAPTORA™** has been applied and an average or above average rainfall (with a minimum of 350 mm) between application and planting of the following crop has been recorded. When the minimum rainfall, as indicated above, has not been recorded for the season of application, extend the period above by an extra 12 months. Consult the supplier in the event of any uncertainty.

6. DIRECTIONS FOR USE: Use only as indicated.

6.1 General

- CLEARFIELD® is an internationally registered trade mark belonging to BASF and appears in a registered logo including the words “**Clearfield® Production System**”.
- The “**Clearfield® Production System**” is a combination of agronomically advanced seeds (natural selection) and custom designed herbicides. The CLEARFIELD® name and logo link the seed and herbicide together. **These plants are not GMO's.**
- The mode of action of **CAPTORA™** involves the uptake by the plant foliage, which is followed by translocation to the growth points. After **CAPTORA™** application, susceptible weeds may show yellowing and weed growth will stop. Susceptible weeds stop growing and either die or are not competitive with the crop.
- **CAPTORA™** must only be applied to CLEARFIELD® Sunflower after the 2-leaf stage of the crop (ideally at four leaves). However, do not apply when the leaf canopy of the crop is too large as this could intercept the spray and prevent the herbicide from reaching the targeted weeds.
- Application should be completed by 32 days after planting.
- The weeds must be between the 2- and 6-leaf stage at application and must be actively growing. They should not be under stress (e.g., drought, waterlogged or nutrient imbalances) during application, as this can limit the uptake and translocation of the product, resulting in poor weed control.
- Adequate soil moisture is important for optimum **CAPTORA™** activity.
- In regions where water quality is known to be poor, Imiboost can be used to ameliorate the water before adding **CAPTORA™**.
- Ensure thorough coverage and wetting of the weeds
- **Important:** Only one (1) application of **CAPTORA™** may be made per growing season. In the situation where CLEARFIELD® Sunflowers are replanted for any reason and where **CAPTORA™** was applied to the first planting, **DO NOT** re-apply **CAPTORA™** to the second planting.

A shallow cultivation of the soil to no deeper than 5 cm is suggested, so that the option of a pre-emergent grass herbicide can be used at re-planting (refer to the appropriate labels for full recommendations).

- A transient yellowing of crop plants (so-called “yellow flash”), or shortening of the internodes, may occur 5 - 8 days following a **CAPTORA™** application. However, no adverse effects on the yield will occur. These effects can be more pronounced if Imiboost has been included in the tank mixture and if crops are growing under stressful environmental conditions. Therefore, ensure that the best agronomic practices are followed including soil preparation, adequate fertilisation and disease control in the seedling phase.

6.2 Compatibility

CAPTORA™ is compatible with Imiboost. Do not mix **CAPTORA™** with any organophosphate or carbamate insecticides.

6.3 Mixing Instructions

- Three-quarter fill the spray tank with clean water.
- Measure the required volume of **CAPTORA™** and pre-mix this with at least 10 ℓ water before adding to the spray tank. If any other product is to be mixed with **CAPTORA™** pre-mix the required volume of product in similar fashion.
- Agitate the water in the spray tank and, if necessary, add Imiboost first, allowing for sufficient mixing before adding the **CAPTORA™**.
- 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.

All spray applications must be made with suitable equipment that is in good working order and correctly calibrated to give the desired coverage for that particular method of application.

Crop	Dosage ℓ/ha	Directions for application
Clearfield® SUNFLOWER	1 ℓ	<ul style="list-style-type: none"> • CAPTORA™ SHOULD ALWAYS BE PART OF A PROGRAM APPLICATION. • Always start the program by using a pre-emergent grass herbicide, namely DUAL® GOLD (L5749) or METAGAN® GOLD (L5748). <p>Post-emergent application</p> <ul style="list-style-type: none"> • CAPTORA™ must be applied at the 2 - 6-leaf stage of the weeds. Any grass weeds must be treated before tillering starts. • The sunflower seedlings must be between the 2-

Crop	Dosage ℓ/ha	Directions for application
Clearfield® SUNFLOWER	1 ℓ	<p>and 6-leaf stages. It is therefore important to apply when most weeds have emerged together with consideration of the crop stage, but do not delay application beyond this time as reduced efficacy can be expected for older weeds.</p> <ul style="list-style-type: none"> • THE TIMING OF THIS APPLICATION SHOULD BE COMPLETED BY 32 DAYS AFTER PLANTING. <p>Ground application</p> <ul style="list-style-type: none"> • Apply Captora™ in 150 - 250 ℓ water/ha. <p>Aerial application is not recommended.</p>

TABLE 1: WEEDS CONTROLLED BY CAPTORA™ WHEN APPLIED FOLLOWING THE USE OF A PRE-EMERGENT GRASS CONTROL PRODUCT, NAMELY DUAL® GOLD OR METAGAN® GOLD.

GRASSES	
Botanical name	Common name
<i>Digitaria sanguinalis</i>	crab finger grass
<i>Dinebra retroflexa</i>	cat's tail grass
<i>Dactyloctenium aegyptium</i>	crow foot grass
<i>Eleusine indica ss africanum</i>	goose grass
BROADLEAVES	
Botanical name	Common name
<i>Amaranthus hybridus</i>	common pigweed
<i>Amaranthus viridis</i>	slender Amaranthus
<i>Chenopodium album</i>	white goosefoot
<i>Chenopodium carinatum</i>	green goosefoot
<i>Chenopodium pumilio</i>	clammy goosefoot
<i>Commelina benghalensis</i>	wandering Jew
<i>Convolvulus sagittatus</i>	bind weed
<i>Cucumis myriocarpus</i>	striped wild cucumber
<i>Datura ferox</i>	large thorn apple
<i>Datura stramonium</i>	common thorn apple
<i>Euphorbia helioscopia</i>	umbrella milkweed
<i>Euphorbia heterophylla</i>	painted euphoria
<i>Hibiscus trionum</i>	bladder hibiscus
<i>Portulaca oleracea</i>	purslane
<i>Richardia brasiliensis</i>	Mexican Richardia
<i>Tagetes minuta</i>	tall khaki weed
<i>Tribulus terrestris</i>	devil thorn

Also refer to the spectrum of weeds controlled by the pre-emergent grass control herbicides, mentioned above.

Weed species such as *Bidens* spp., *Datura* spp., *Tagetes minuta*, *Xanthium strumarium* and some others that germinate erratically, even during the latter part of the season, may not be effectively controlled up to harvest.

TABLE 2: SUPPRESSION OF BETWEEN 60 - 90% OF THE FOLLOWING WEEDS WILL BE ACHIEVED WITH CAPTORA™ FOLLOWING THE USE OF THE

**REGISTERED PRE-EMERGENT GRASS HERBICIDES
NAMES, DUAL® GOLD OR METAGAN® GOLD.**

GRASSES	
Botanical name	Common name
<i>Panicum schinzii</i>	Sweet buffalo grass
BROADLEAVES	
Botanical name	Common name
<i>Acanthospermum hispidum</i>	upright starbur
<i>Bidens pilosa</i>	blackjack
<i>Bidens formosa</i>	cosmos
<i>Crotalaria sphaerocarpa</i>	wild lucerne
<i>Ipomoea purpurea</i>	morning glory
<i>Schurhria pinnata</i>	dwarf marigold
<i>Xanthium strumarium</i>	large cockle bur

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