



**Clearfield<sup>®</sup> Plus**  
Production System

**BASF**  
We create chemistry



# Euro-Lightning<sup>®</sup> Plus

Reg. No. L10316

Act No. 36 of 1947

**READ ATTACHED PACKAGE OR LEAFLET BEFORE USE  
KEEP OUT OF REACH OF CHILDREN AND ANIMALS**

|       |   |           |
|-------|---|-----------|
| GROUP | 2 | HERBICIDE |
|-------|---|-----------|

A water soluble post-emergent herbicide for the control of annual broadleaf and grass weeds in CLEARFIELD<sup>®</sup> PLUS sunflower.

'n Wateroplosbare na-opkomsonekruiddoder vir die beheer van eenjarige breëblaar- en grasonkruid in CLEARFIELD<sup>®</sup> PLUS sonneblom.

**Hazard statements:**

Toxic to aquatic life with long lasting effects.

**Precautionary statements:**

If medical advice is needed, have product container or label at hand.

Dispose of contents and container to hazardous or special waste collection point.

**Active ingredients / Aktiewe bestanddele:**

Imazapyr (imidazolinone).....7,5 g/l

Imazamox (imidazolinone).....16,5 g/l

**Registered by:**

BASF South Africa (Pty) Ltd

Co. Reg. No. 66/10235/07

852 Sixteenth Road

P.O. Box 2801

Halfway House 1685

+27 11 203 2400



**Batch No. & Date manufactured:** Refer to details printed on container  
**Lotnommer & Datum vervaardig:** Verwys na besonderhede gedruk op houer

**UN-No. / VN-Nr:** 3082

**EMERGENCY NUMBERS / +27 82 446 8946 or +27 11 203 2420**

**In case of poisoning, call the following number: +27 82 446 8946**

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## WARNINGS

### Hazard Statements

- Toxic to aquatic life with long lasting effects.

**Withholding period: Allow the following minimum number of days between application and harvest:**

| CROP                              | Days |
|-----------------------------------|------|
| <b>CLEARFIELD® PLUS</b> sunflower | 70   |

- Handle with care.
- Poisonous when swallowed.
- Store in a cool place away from food, feed and seed.
- Keep out of reach of children, uninformed persons and animals.
- To avoid injury to other crops, spray equipment used for **EURO-LIGHTNING® PLUS** 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® PLUS** sunflower varieties as registered by the relevant seed companies.

**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 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 weeds 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 occurrence of conditions which could not have been foreseen in terms of the registration. Consult the supplier in the event of any uncertainty.**

## PRECAUTIONS

### Precautionary Statements

- If medical advice is needed, have product container or label at hand.
- Keep out of reach of children.
- Read carefully and follow all instructions.
- Collect spillage.
- 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 or 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 the 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 times with a volume of water equal to a minimum of 10 % of that of the container. Add these rinsings 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, but destroy it by perforation and flattening, and dispose of it in a safe way.
- Prevent contamination of food, feedstuffs, drinking water and eating utensils.

## RELEVANT SUBSTANCES

| <b>Hazardous ingredients</b><br>According to UN GHS criteria                                             | <b>CAS number</b> | <b>Concentration (W/W)</b> |
|----------------------------------------------------------------------------------------------------------|-------------------|----------------------------|
| imazamox (ISO); (RS)-2-(4-isopropyl-4-methyl-5-oxo-2-imidazolin-2-yl)-5- methoxymethylnicotinic acid     | 114311-32-9       | 1,49 %                     |
| imazapyr (ISO); 2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-3-pyridine carboxylate | 81334-34-1        | 0,68 %                     |
| Oxirane, methyl-, polymer with oxirane, mono-C10-16-alkyl ethers, phosphates                             | 68649-29-6        | < 30 %                     |
| Dimethyl sulfoxide                                                                                       | 67-68-5           | < 25 %                     |
| 1,1',1''-nitrilotripropan-2-ol                                                                           | 122-20-3          | < 5 %                      |
| Docusate sodium                                                                                          | 577-11-7          | < 3 %                      |
| Bis(2-ethylhexyl) maleate                                                                                | 142-16-5          | < 0,5 %                    |
| 2,2',2''-Nitrilotriethanol                                                                               | 102-71-6          | < 5 %                      |

## FIRST AID TREATMENT

Remove contaminated clothing.

|                              |                                                                                        |
|------------------------------|----------------------------------------------------------------------------------------|
| <b>ON CONTACT WITH EYES:</b> | Wash affected eyes for at least 15 minutes under running water with eyelids held open. |
| <b>ON INGESTION:</b>         | Rinse mouth and then drink 200-300 mL of water.                                        |
| <b>ON SKIN CONTACT:</b>      | Wash thoroughly with soap and water.                                                   |
| <b>IF INHALED:</b>           | Keep patient calm, remove to fresh air.                                                |

### Indication of any immediate medical attention and special treatment needed

Treatment: Symptomatic treatment (decontamination, vital functions).

## RESISTANCE WARNING

**EURO-LIGHTNING® PLUS** is an HRAC 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 causes 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 **EURO-LIGHTNING® PLUS** and other ALS-inhibiting herbicides. Therefore, BASF South Africa (Pty) Ltd cannot be held responsible for poor control of such resistant weeds, or any losses that may result from the use of **EURO-LIGHTNING® PLUS**.

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 application of **EURO-LIGHTNING® PLUS** 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 South Africa (PTY) LTD.**

## USE RESTRICTIONS:

- **EURO-LIGHTNING® PLUS** can only be used on **CLEARFIELD® PLUS** sunflower hybrids. Non-**CLEARFIELD® PLUS** hybrids of sunflower are fully susceptible to the herbicidal action of **EURO-LIGHTNING® PLUS** and will be damaged if treated with **EURO-LIGHTNING® PLUS**. For information on where to obtain **CLEARFIELD® PLUS** sunflower, please contact your agent or BASF South Africa (Pty) Ltd.
- Avoid the application of **EURO-LIGHTNING® PLUS** to soils with pH (KCl) below 4,5 or above 7,2.
- Avoid overlaps when spraying.
- Do not apply if rain is expected within 2 hours of application.
- DO NOT use any additional wetters, spreaders or other adjuvants, as **EURO-LIGHTNING® PLUS** has already been formulated with optimised amounts of surfactants. The only exception is the addition of a flowable (50%) high quality ammonium sulphate, see **General information** below.
- 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® PLUS** sunflower.
- To avoid possible damage to follow-up crops, the following waiting periods must be taken into consideration after the application of **EURO-LIGHTNING® PLUS**, however, a test planting is recommended.

| CROP                                                                                  | WAITING PERIOD |
|---------------------------------------------------------------------------------------|----------------|
| a) <b>CLEARFIELD® PLUS</b> sunflower                                                  | None           |
| b) Wheat                                                                              | 4 months       |
| c) Maize [All maize producing areas (including irrigation)], dry beans and soya beans | 9 months       |
| d) All other crops including non- <b>CLEARFIELD® PLUS</b> sunflower                   | 20 months      |

**NOTE:** The above mentioned waiting periods will only be valid if the correct quantity of **EURO-LIGHTNING® PLUS** 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.

## DIRECTIONS FOR USE: USE ONLY AS DIRECTED

### General information:

- **CLEARFIELD® PLUS** is an internationally registered trademark belonging to BASF and appears in a registered logo including the words “**CLEARFIELD® PLUS Production System**”.
- The “**CLEARFIELD® PLUS Production System**” is a combination of agronomically advanced seeds (natural selection) and custom designed herbicides. The **CLEARFIELD® PLUS** name and logo link the seed and herbicide together. **These plants are not GMO's.**
- The mode of action of **EURO-LIGHTNING® PLUS** involves the uptake by the plant foliage, which is followed by translocation to the growth points. After **EURO-LIGHTNING® PLUS** 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.

- **EURO-LIGHTNING® PLUS** must only be applied to **CLEARFIELD® PLUS** sunflower after the 2-leaf stage of the crop (ideally at 4 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 **EURO-LIGHTNING® PLUS** activity.
- In regions where water quality is known to be poor, a flowable (50%) high quality ammonium sulphate, at a 2% dilution can be used to ameliorate the water before adding **EURO-LIGHTNING® PLUS**.
- Ensure thorough coverage and wetting of the weeds.
- If needed, a suitable, registered pre- or post-emergent graminicide can be applied prior to, or following the application of **EURO-LIGHTNING® PLUS**. **EURO-LIGHTNING® PLUS** should never be applied in a tank mix with any other herbicide. Always refer to the applicable product label and apply in the directed manner.
- **IMPORTANT:** Only one application of **EURO-LIGHTNING® PLUS** may be made per growing season. In the situation where **CLEARFIELD® PLUS** sunflowers are replanted for any reason and where **EURO-LIGHTNING® PLUS** was applied to the first planting, **DO NOT** re-apply **EURO-LIGHTNING® PLUS** 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 to 8 days following a **EURO-LIGHTNING® PLUS** application. However, no adverse effects on yield will occur. These effects can be more pronounced if a flowable (50%) high quality ammonium sulphate 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 fertilization and disease control in the seedling phase. The “yellow flash” will be absent or significantly reduced in **CLEARFIELD® PLUS** sunflower varieties.
- **EURO-LIGHTNING® PLUS** may contain a small amount of sediments, which is completely normal. Always perform a triple rinsing of the container when preparing the spray solution.

### Compatibility:

**EURO-LIGHTNING® PLUS** is compatible with a flowable (50%) high quality ammonium sulphate. Do not mix **EURO-LIGHTNING® PLUS** with any organophosphate or carbamate insecticides, nor apply where these products have already been applied to the crop, either as soil or foliar treatments.

### Mixing instructions:

Three-quarter fill the spray tank with clean water. If required, add a flowable (50 %) high quality ammonium sulphate to the spray water first and agitate well, allowing for sufficient mixing before adding the **EURO-LIGHTNING® PLUS**. Measure the required volume of **EURO-LIGHTNING® PLUS** and pre-mix this with at least 10 ℓ water before adding 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.

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

| CROP                       | DOSAGE RATE | DIRECTIONS FOR APPLICATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CLEARFIELD® PLUS SUNFLOWER | 2 ℓ/ha      | <p><b>Post-emergent application:</b><br/> <b>EURO-LIGHTNING® PLUS</b> 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- 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. THE TIMING OF THIS APPLICATION SHOULD BE COMPLETED BY 32 DAYS AFTER PLANTING.</p> <p><b>Ground application:</b><br/> Apply <b>EURO-LIGHTNING® PLUS</b> in 150 – 250 ℓ water/ha.<br/> <b>Aerial application is not recommended.</b></p> |

**TABLE 1**  
**WEEDS CONTROLLED BY EURO-LIGHTNING® PLUS**

| GRASSES                      |                   | BROAD LEAVES                  |                    |
|------------------------------|-------------------|-------------------------------|--------------------|
| SCIENTIFIC NAME              | COMMON NAME       | SCIENTIFIC NAME               | COMMON NAME        |
| <i>Digitaria sanguinalis</i> | Crab finger grass | <i>Amaranthus hybridus</i>    | Common pigweed     |
| <i>Eleusine coracana</i>     | Goose grass       | <i>Chenopodium album</i>      | White goosefoot    |
|                              |                   | <i>Chenopodium carinatum</i>  | Green goosefoot    |
|                              |                   | <i>Cleome monophylla</i>      | Spindlepod         |
|                              |                   | <i>Convolvulus arvensis</i>   | Bindweed           |
|                              |                   | <i>Datura ferox</i>           | Large thorn apple  |
|                              |                   | <i>Portulaca oleracea</i>     | Purslane           |
|                              |                   | <i>Richardia brasiliensis</i> | Tropical richardia |
|                              |                   | <i>Schkuhria pinnata</i>      | Dwarf marigold     |
|                              |                   | <i>Tagetes minuta</i>         | Tall khaki weed    |

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

TABLE 2

**BROADLEAF WEEDS SUPPRESSED BY EURO-LIGHTNING® PLUS**

| BROAD LEAVES                  |                      |
|-------------------------------|----------------------|
| SCIENTIFIC NAME               | COMMON NAME          |
| <i>Commelina benghalensis</i> | Bengal wandering Jew |
| <i>Ipomoea purpurea</i>       | Common morning glory |

Other plant species that were not present during the development trials with **EURO-LIGHTNING® PLUS** may also be controlled to a certain degree. The registration holder does not accept any responsibility for unlisted plant species.

**CONDITIONS OF SALE AND WARRANTY:**

The Directions for Use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and must be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or use of this product in a manner inconsistent with its labeling, all of which are beyond the control of BASF South Africa (Pty) Ltd. ("BASF") or the Seller. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer.

BASF warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions for Use**, subject to the inherent risks, referred to above.

**TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BASF MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.**

**TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BUYER'S EXCLUSIVE REMEDY AND BASF'S EXCLUSIVE LIABILITY, WHETHER IN CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY, OR OTHERWISE, SHALL BE LIMITED TO REPAYMENT OF THE PURCHASE PRICE OF THE PRODUCT.**

**TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BASF AND THE SELLER DISCLAIM ANY LIABILITY FOR CONSEQUENTIAL, EXEMPLARY SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.**

BASF and the Seller offer this product, and the Buyer and User accept it, subject to the foregoing **Conditions of the Sale and Warranty**, which may be varied only by agreement in writing signed by a duly authorized representative of BASF.

**CLEARFIELD® PLUS** and **EURO-LIGHTNING® PLUS** are registered trademarks of BASF.

## WAARSKUWINGS

**Gevaarstellings**

- Giftig vir akwatiese organismes met langdurige effek.

**Onthoudingsperiode: Laat die volgende minimum aantal dae toe, tussen toediening en oes:**

| GEWAS                             | Dae |
|-----------------------------------|-----|
| <b>CLEARFIELD® PLUS</b> sonneblom | 70  |

- Hanteer versigtig.
- Giftig indien ingesluk.
- Bêre in 'n koel plek weg van voedsel, voer en saad.
- Hou buite bereik van kinders, oningeligte persone en diere.
- Om skade op ander gewasse te vermy, moet die spuitapparaat gebruik vir **EURO-LIGHTNING® PLUS** toediening, deeglik uitgewas word voordat dit gebruik word vir bespuiting met ander produkte.
- Gebruik alleenlik op die goedgekeurde **CLEARFIELD® PLUS** sonneblom variëteite soos deur die toepaslike saadmaatskappye geregistreer.

Alhoewel hierdie middel onder 'n groot verskeidenheid toestande getoets is, waarborg die registrasiehouer nie dat dit onder alle toestande doeltreffend sal wees nie, aangesien die werking en effek daarvan, deur faktore soos abnormale grond-, klimaats- en bergingstoestande, kwaliteit van verdunningswater, verenigbaarheid met ander stowwe wat nie op die etiket aangedui is nie, en die voorkoms van weerstand by onkruide teen die betrokke middel beïnvloed kan word, die metode, tyd en akkuraatheid van toediening kan ook die werking en doeltreffendheid van die middel beïnvloed. Verder aanvaar die registrasiehouer nie verantwoordelikheid vir skade aan gewasse, plantegroei en die omgewing nie, of vir nadelige effek op mens of dier nie, of vir onvoldoende prestasie van die betrokke middel weens die versuim van die gebruiker om etiketaanwysings na te kom nie, of weens toestande wat nie kragtens die registrasie voorsien kon word nie. Raadpleeg die verskaffer in geval van enige onsekerheid.

## VOORSORGMAATREËLS

**Voorsorgstellings**

- Indien mediese advies nodig is, hou die produkhouer of etiket byderhand
- Hou buite bereik van kinders
- Lees etiket noukeurig en volg alle instruksies
- Maak produk bymekaar wat gemors / uitgeloop het.
- Raak ontslae van inhoud en houer deur na 'n gevaarlike- of spesiale-afval insamelsplek te besorg.

- Moenie dampe of sproeinewel inasem nie.
- Was met seep en water na gebruik of indien dit per ongeluk op die vel beland.
- Moenie eet, rook of drink terwyl gemeng of gespuit word nie alvorens die hande en gesig nie gewas is nie.
- Verhoed die oorwaai van spuitnewel na ander gewasse weiding, riviëre en damme of gebiede wat nie behandel moet word nie.
- Maak die spuittoediener deeglik skoon voordat ander middels daarmee toegedien word en doen weg met die waswater, sodat dit nie gewasse, weiding, riviëre of damme sal besoedel nie.
- Moenie toedien waar wortels van gewenste plantegroei die middel kan opneem nie.
- Leë houer moet DRIE KEER UITGESPOEL word soos volg: Keer die leë houer om oor die spuittenk of mengbak en dreineer vir minstens 30 sekondes nadat die vloei tot 'n gedrup verminder het. Spoel die houer daarna drie keer uit met 'n volume water gelykstaande aan 'n minimum van 10 % van die houer. Gooi die spoelwater by die inhoud van die spuittenk voordat die houer op die voorgeskrewe wyse vernietig word.
- Moet nooit die leë houer vir enige ander doel hergebruik nie, maar vernietig dit deur te perforeer, plat te druk en raak op 'n veilige manier daarvan ontslae.
- Voorkom die besoedeling van voedsel, voer, drinkwater en eetgerei.

## RELEVANTE STOWWE

| Gevaarlike Bestanddele<br>Volgens UN GHS kriteria                                                        | CAS nommer  | Konsentrasie (W/W) |
|----------------------------------------------------------------------------------------------------------|-------------|--------------------|
| imazamox (ISO); (RS)-2-(4-isopropyl-4-methyl-5-oxo-2-imidazolin-2-yl)-5-methoxymethylnicotinic acid      | 114311-32-9 | 1,49 %             |
| imazapyr (ISO); 2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-3-pyridine carboxylate | 81334-34-1  | 0,68 %             |
| Oxirane, methyl-, polymer with oxirane, mono-C10-16-alkyl ethers, phosphates                             | 68649-29-6  | < 30 %             |
| Dimethyl sulfoxide                                                                                       | 67-68-5     | < 25 %             |
| 1,1',1''-nitrilotripropan-2-ol                                                                           | 122-20-3    | < 5 %              |
| Docusate sodium                                                                                          | 577-11-7    | < 3 %              |
| Bis(2-ethylhexyl) maleate                                                                                | 142-16-5    | < 0,5 %            |
| 2,2',2''-Nitrilotriethanol                                                                               | 102-71-6    | < 5 %              |

## **NOODHULPBEHANDELING**

Verwyder besmette klere.

|                           |                                                                                                   |
|---------------------------|---------------------------------------------------------------------------------------------------|
| <b>INDIEN IN DIE OË:</b>  | Spoel aangetaste oë vir ten minste 15 minute met lopende water, terwyl die ooglede oopgehou word. |
| <b>INDIEN INGESLUK:</b>   | Spoel mond uit en drink 200 – 300 ml water.                                                       |
| <b>INDIEN OP DIE VEL:</b> | Was aangetaste area deeglik met seep en water.                                                    |
| <b>INDIEN INGEASEM:</b>   | Hou pasiënt kalm en verwyder na vars lug.                                                         |

### **Indikasie van enige onmiddellike mediese aandag en spesiale behandeling nodig**

Behandeling: Behandel simptome (reinig, belangrikste funksies). Daar is geen spesifieke teenmiddel nie.

### **WAARSKUWING TEEN WEERSTAND**

**EURO-LIGHTNING® PLUS** is 'n HRAC Groepkode 2 onkruidkoder en behoort aan die Imidasoloon-groep onkruidkoders. Die produk besit die aseto-laktaatsintese onderdrukkende (ALS) meganisme van werking. In enige onkruidpopulasie, is daar sekere onkruidbiotipes wat 'n natuurlike weerstandbiedendheid teen onkruidkoders met 'n spesifieke meganisme van werking het. Die herhaaldelike en moontlik ononderbroke gebruik van onkruidkoders, met dieselfde meganisme van werking, mag veroorsaak dat die voorkoms van hierdie natuurlike biotipes dominant kan raak oor 'n periode van tyd. Hierdie bestande onkruid word nie beheer nie en die gevolg is swak algehele onkruidbeheer, alhoewel die onkruidkoder teen die korrekte dosis en tydsbestek toegedien is. Dit is ook waar vir **EURO-LIGHTNING® PLUS** en ander ALS-onderdrukkende onkruidkoders. Daarom kan **BASF Suid-Afrika (Edms) Bpk** nie verantwoordelik gehou word vir die swak beheer van sulke bestande onkruid nie, of enige verliese gelyk as gevolg van die onsuksesvolle gebruik van **EURO-LIGHTNING® PLUS** nie. Die volgende aksies word aanbeveel om die seleksiedruk van weerstandbiedende onkruid te voorkom:

- Dit is noodsaaklik om die metode van werking van die verskillende beskikbare onkruidkoders te verstaan.
- Dien slegs een **EURO-LIGHTNING® PLUS** behandeling per seisoen toe.
- Indien verdere onkruidkoder-toedienings vereis word, moet onkruidkoders van 'n ander meganisme van werking gebruik word.

**VIR SPESIEFIEKE INLIGTING OOR WEERSTANDBESTUUR, KONTAK DIE REGISTRASIEHOUDER, BASF Suid-Afrika (Edms) Bpk.**

## GEBRUIKSBEPERKINGS

- **EURO-LIGHTNING® PLUS** kan slegs op goedgekeurde **CLEARFIELD® PLUS** sonneblomvariëteite gebruik word. Nie- **CLEARFIELD® PLUS** sonneblomvariëteite is vatbaar vir die werking van **EURO-LIGHTNING® PLUS** en kan ernstig beskadig word indien **EURO-LIGHTNING® PLUS** toegedien word. Vir inligting rakende die verkryging van **CLEARFIELD® PLUS** sonneblomsaad, skakel gerus u agent of BASF Suid-Afrika (Edms) Bpk.
- Vermoed die toediening van **EURO-LIGHTNING® PLUS** op gronde met pH (KCl) onder 4,5 of bo 7,2.
- Voorkom oorvleueling van spuitbane tydens toediening.
- Moenie toedien as reën binne 2 ure na toediening verwag word nie.
- **MOENIE** addisionele benatters, verspreiders of ander byvoegmiddels saam met **EURO-LIGHTNING® PLUS** gebruik nie, siende dat dit reeds met die optimale hoeveelheid byvoegmiddels geformuleer is. Die enigste uitsondering is die byvoeging van 'n vloeibare (50%) hoë kwaliteit ammoniumsulfaat. Kyk onder, **Algemene inligting**, hier onder.
- Toediening moet gestaak word indien windsnelheid 15 km/h oorskry, wanneer temperatuurinversies voorkom, of wanneer toestande die oorwaai van spuitnewel na gevoelige gewasse sal begunstig. 'n Buffersone moet verkieslik gelaat word tussen die gebied wat behandel moet word en gevoelige gewasse.
- Gevoelige gewasse sluit in, maar is nie beperk tot, groentegewasse, graangewasse en sonneblomvariëteite wat nie as **CLEARFIELD® PLUS** sonneblom gemerk is nie.
- Om moontlike skade aan opvolggewasse te voorkom, moet die volgende wagperiodes (kyk hieronder) in ag geneem word nadat **EURO-LIGHTNING® PLUS** toegedien is. 'n Toetsaanplanting word nogtans aanbeveel.

| GEWAS                                                                                      | WAGPERIODE |
|--------------------------------------------------------------------------------------------|------------|
| a) <b>CLEARFIELD® PLUS</b> sonneblom                                                       | Geen       |
| b) Koring                                                                                  | 4 maande   |
| c) Mielies [alle mielieproduserende gebiede (besproeiing ingesluit)], droëbone en sojabone | 9 maande   |
| d) Alle ander gewasse insluitende nie-CLEARFIELD® PLUS sonneblom                           | 20 maande  |

**NOTA:** Die bogenoemde wagperiodes geld slegs indien die korrekte hoeveelheid **EURO-LIGHTNING® PLUS** toegedien is en 'n gemiddelde, of bo-gemiddelde, reënval vir die seisoen voorgekom het (met 'n minimum van 350 mm) tussen toediening en die aanplant van die opvolggewas. Wanneer die minimum aantal reënval, soos hierbo aangedui, nie voorgekom het tydens die seisoen nie, moet die wagperiodes, soos in die tabel hierbo aangedui, met 'n addisionele 12 maande verleng word. Kontak u verspreider in geval van onsekerheid.

### Algemene inligting:

- **CLEARFIELD® PLUS** is 'n internasionaal geregistreerde handelsmerk wat aan BASF behoort. Dit verskyn as 'n geregistreerde logo en sluit die woorde "**CLEARFIELD® PLUS Production System**" in.
- Die "**CLEARFIELD® PLUS Production System**" is 'n kombinasie van landboukundig gevorderde saad (natuurlike seleksie) en tegnologies ontwikkelde onkruidodders. Die naam **CLEARFIELD® PLUS** word gebruik om die saad en onkruidodder as 'n eenheid te sien. Hierdie plante is nie 'n **GGO (GMO)** nie.
- Die meganisme van werking van **EURO-LIGHTNING® PLUS** behels die opname deur die blare en translokasie na die groeipunte. Na die **EURO-LIGHTNING® PLUS** toediening, sal die vatbare onkruiddekleur, die groeiproses word gestaak en die onkruidde sal óf doodgaan óf nie verder kompetisie vir die gewas wees nie.
- **EURO-LIGHTNING® PLUS** moet net op **CLEARFIELD® PLUS** sonneblom gebruik word, na die 2-blaarstadium (4-blaar stadium is ideaal). Moenie te laat toedien nie. As die gewas se blare te groot is, sal 'n afskermingseffek suksesvolle onkruidbeheer verhoed.
- Toediening moet voltooi wees binne 32 dae na aanplanting.
- Die onkruidde moet tussen die 2- en 6-blaar stadium wees tydens toediening en moet aktiefgroeënd wees. Die onkruidde moet onder geen stremming verkeer tydens die toediening nie (bv. droogte, versuip of voedingswanbalanse), aangesien dit die opname en translokasie van die produk kan benadeel en die onkruidde sodoende nie effektief beheer kan word nie.
- Voldoende grondvog moet teenwoordig wees vir die optimale werking van **EURO-LIGHTNING® PLUS**.
- In gebiede waar swak waterkwaliteit ervaring word, moet 'n vloeibare (50%) hoë kwaliteit ammoniumsulfaat gebruik word as 'n versagter van die water, voordat die **EURO-LIGHTNING® PLUS** bygevoeg word. Gebruik 'n vloeibare (50%) hoë kwaliteit ammoniumsulfaat teen 'n 2% oplossing.
- Verseker deeglike benatting van die onkruidde.
- Indien nodig, kan 'n geskikte geregistreerde voor- of na-opkoms grasodder voor of na **EURO-LIGHTNING® PLUS** toegedien word. **EURO-LIGHTNING® PLUS** moet nooit in 'n tenkmengsel saam enige ander onkruidodder gespuut word nie. Verwys altyd na die toepaslike produketiket en dien toe soos aanbeveel.
- **BELANGRIK:** Slegs een toediening **EURO-LIGHTNING® PLUS** mag per groeiseisoen toegedien word. In die geval van 'n heraanplanting, vir enige rede, van **CLEARFIELD® PLUS** sonneblom waar **EURO-LIGHTNING® PLUS** alreeds met die eerste aanplanting gespuut is, mag **EURO-LIGHTNING® PLUS** nie weer toegedien word nie. 'n Vlak herbewerking van die grond, nie dieper as 5 cm nie, word voorgestel, sodat die opsie van 'n voor-opkomsgrasonkruidodder met die heraanplanting weer toegedien kan word (verwys na die toepaslike etikette vir aanwysings).
- 'n Verbygaande vergeling van die gewas (genaamd "yellow flash"), of verkorting van die internodes, mag voorkom 5 tot 8 dae na die **EURO-LIGHTNING® PLUS** toediening. Geen nadelige oesopbrengs sal egter ervaar word nie. Hierdie simptome mag meer prominent wees wanneer 'n vloeibare (50%) hoë kwaliteit ammoniumsulfaat ingesluit is in die tenkmengsel, of wanneer die gewas onder stremming verkeer as gevolg van omgewingstoestande. Verseker dus dat die beste landboukundigepraktijk gevolg word, insluitende grondbewerking, genoegsame kunsmis en siektebeheer in die saailingstadium. Die vergeling van die gewas sal verminder wees of glad nie plaasvind wanneer **CLEARFIELD® PLUS** sonneblomvariëteite gebruik word.
- Die teenwoordigheid van 'n klein hoeveelheid sediment is normaal vir **EURO-LIGHTNING® PLUS**. Die houer moet altyd drie keer uitgespoel word wanneer die spuitoplossing voorberei word.

### **Verenigbaarheid:**

**EURO-LIGHTNING® PLUS** is verenigbaar met 'n vloeibare (50%) hoë kwaliteit ammoniumsulfaat. Moenie met 'n organofosfaat of karbamaat meng nie. **EURO-LIGHTNING® PLUS** moet ook nie toegedien word waar daar vooraf met organofosfaat of karbamaat insekdoers gespruit was nie, hetsy as 'n grond- of blaartoediening.

### **Menginstruksies:**

Maak die spuittenk driekwart vol met skoon water. Indien nodig, voeg 'n vloeibare (50 %) hoë kwaliteit ammoniumsulfaat eerste by die spuitwater en meng deeglik voordat die **EURO-LIGHTNING® PLUS** oplossing bygevoeg word. Meet die benodigde volume **EURO-LIGHTNING® PLUS** af en meng dit vooraf met minstens 10 ℓ water, voordat dit by die tenk gevoeg word. Vul die spuittenk met water tot by die verlangde vlak terwyl daar voortdurend geroer word om deeglike vermenging te verseker, alvorens daar met toediening begin word. Handhaaf roering gedurende toediening. Aangemaakte spuitmengsels moenie in die spuittenk gelaat word vir 'n onbepaalde tyd, bv. oornag nie.

Alle toedienings moet gemaak word met geskikte toerusting, wat in goeie werkende toestand en korrek gekalibreer is, ten einde die verlangde bedekking te gee vir die betrokke toedieningsmetode.

| <b>GEWAS</b>                      | <b>DOSIS</b> | <b>GEBRUIKSAANBEVELINGS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>CLEARFIELD® PLUS SONNEBLOM</b> | 2 ℓ/ha       | <p><b>Na-opkomsttoediening:</b><br/><b>EURO-LIGHTNING® PLUS</b> moet tydens die 2 – 6 blaarstadium van die onkruid, toegedien word. Enige grasonkruid moet behandel word voor die uitstiel-stadium bereik word. Die sonneblomsaailinge moet tussen die 2 en 6 blaarstadium wees. Dit is daarom belangrik dat toediening geskied wanneer die meeste onkruid reeds opgekom het, inagneming van die gewasstadium, maar dat toediening nie te laat is, sodat die ouer onkruid nie meer beheer sal word nie.</p> <p><b>DIE TYDSBESTEK VAN DIE TOEDIENING MOET VOLTOOI WEES, TEEN 32 DAE NA PLANT.</b></p> <p><b>Grondtoediening:</b> Dien <b>EURO-LIGHTNING® PLUS</b> in 150 – 250 ℓ water/ha toe.</p> <p><b>Lugtoediening word nie aanbeveel nie.</b></p> |

TABEL 1

ONKRUIDE BEHEER DEUR EURO-LIGHTNING® PLUS

| GRASSE                       |                 | BRĖBLARE                      |                         |
|------------------------------|-----------------|-------------------------------|-------------------------|
| WETENSKAPLIKE NAAM           | GEWONE NAAM     | WETENSKAPLIKE NAAM            | GEWONE NAAM             |
| <i>Digitaria sanguinalis</i> | Kruisvingergras | <i>Amaranthus hybridus</i>    | Kaapse misbredie        |
| <i>Eleusine coracana</i>     | Jongosgras      | <i>Chenopodium album</i>      | Wit hondebossie         |
|                              |                 | <i>Chenopodium carinatum</i>  | Groen hondebossie       |
|                              |                 | <i>Chenopodium pumilio</i>    | Australiese hondebossie |
|                              |                 | <i>Cleome monophylla</i>      | Rusperbossie            |
|                              |                 | <i>Convolvulus arvensis</i>   | Akkerwinde              |
|                              |                 | <i>Datura ferox</i>           | Groot stinkblaar        |
|                              |                 | <i>Portulaca oleracea</i>     | Gewone porslein         |
|                              |                 | <i>Richardia brasiliensis</i> | Meksikaanse Richardia   |
|                              |                 | <i>Schkuhria pinnata</i>      | Kleinkakiebos           |
|                              |                 | <i>Tagetes minuta</i>         | Lang kakiebos           |

Onkruidе soos, *Datura* spp., *Tagetes minuta*, en sommige ander wat wisselvallig opkom, selfs gedurende die laaste deel van die seisoen, mag nie effektief beheer word tot en met oes nie.

TABEL 2

BRĖBLAARONKRUIDE WAT ONDERDRUK WORD DEUR EURO-LIGHTNING® PLUS

| BRĖBLARE                      |                           |
|-------------------------------|---------------------------|
| WETENSKAPLIKE NAAM            | GEWONE NAAM               |
| <i>Commelina benghalensis</i> | Bengaalse Wandelende Jood |
| <i>Ipomoea purpurea</i>       | Purperwinde               |

Ander plantspesies wat nie teenwoordig was gedurende ontwikkelingsproewe met **EURO-LIGHTNING® PLUS** nie, mag ook tot 'n sekere mate beheer word. Die registrasiehouer aanvaar nie verantwoordelikheid vir onkruidе wat nie op die etiket gelys word nie.

VERKOOPSVOORWAARDES EN WAARBORG:

Die **GEBRUIKSAANWYSINGS** van hierdie produk weerspieël die opinie van kundiges, gebaseer op gebruik in die veld en in proewe. Die aanwysings word as betroubaar geag en moet noukeurig nagekom word. Dit is egter onmoontlik om alle risiko's wat inherent met die gebruik van hierdie produk geassosieer word, uit te skakel. Gewasskade, oneffektiwiteit of ander onopsetlike gevolge mag voorkom as gevolg van faktore soos weerstoestande, teenwoordigheid van ander materiale, of wanneer die produk op 'n wyse wat teenstrydig met die etiket is, gebruik word; dit alles is buite die beheer van BASF Suid-Afrika (Edms) Bpk ("BASF") of die Verkoper. In die mate waarin dit in ooreenstemming met toepaslike wetgewing is, sal alle risiko's deur die Koper aanvaar word.

BASF waarborg dat hierdie produk aan die vereistes van die chemiese beskrywing op die etiket voldoen, en is redelikerwys geskik vir die gebruiksdoeleindes soos uiteengesit in die **GEBRUIKSAANWYSINGS**, onderhewig aan die inherente risiko's, soos hierbo na verwys.

**IN DIE MATE WAT DIT MET TOEPASLIKE WETGEWING OOREENSTEM, GEE BASF GEEN ANDER UITDRUKKING OF GEÏMPLISEERDE WAARBORG VAN GESKIKTHEID OF VERKOOPSVERNUF OF ENIGE ANDER UITDRUKKING OF GEÏMPLISEERDE WAARBORG NIE.**

**IN DIE MATE WAT DIT MET TOEPASLIKE WETGEWING OOREENSTEM, SAL DIE KOPER SE UITSLUITLIKE REGSMIDDEL EN BASF SE UITSLUITLIKE AANSPREEKLIKHEID, HETSY IN KONTRAK, ONREGMATIGHEID, NALATIGHEID, STRENG AANSPREEKLIKHEID, OF ANDERSINDS, BEPERK WORD TOT TERUGBETALING VAN DIE AANKOOPPRYS VAN DIE PRODUK.**

**IN DIE MATE WAT DIT MET TOEPASLIKE WETGEWING OOREENSTEM, DOEN BASF EN DIE VERKOPER, AFSTAND VAN ENIGE AANSPREEKLIKHEID TEN OPSIGTE VAN VOORTSPRUITENDE SKADE, SKADEVERGOEDING, SPESIALE OF INDIRECTE SKADE, UIT DIE GEBRUIK OF HANTERING VAN HIERDIE PRODUK.**

BASF en die Verkoper bied hierdie produk aan, en die Aankoper en Gebruiker aanvaar dit, onderhewig aan die voorafgaande Verkoopsvoorwaardes en Waarborg, wat slegs gewysig mag word deur 'n skriftelike ooreenkoms, wat na behore deur 'n gemagtigde verteenwoordiger van BASF onderteken is.

**CLEARFIELD® PLUS** en **EURO-LIGHTNING® PLUS** is geregistreerde handelsmerke van BASF.



**Clearfield<sup>®</sup> Plus**  
Production System

**BASF**  
We create chemistry

# Euro-Lightning<sup>®</sup> Plus

Reg. No. L10316

Act No. 36 of 1947

**READ ATTACHED PACKAGE OR LEAFLET BEFORE USE  
KEEP OUT OF REACH OF CHILDREN AND ANIMALS**

|       |   |           |
|-------|---|-----------|
| GROUP | 2 | HERBICIDE |
|-------|---|-----------|

A water soluble post-emergent herbicide for the control of annual broadleaf and grass weeds in CLEARFIELD<sup>®</sup> PLUS sunflower.

'n Wateroplosbare na-opkomsonekruidkoder vir die beheer van eenjarige breëblaar- en grasonkruide in CLEARFIELD<sup>®</sup> PLUS sonneblom.

**Hazard statements:**

Toxic to aquatic life with long lasting effects.

**Precautionary statements:**

If medical advice is needed, have product container or label at hand.

Dispose of contents and container to hazardous or special waste collection point.

**Active ingredients / Aktiewe bestanddele:**

Imazapyr (imidazolinone).....7,5 g/l

Imazamox (imidazolinone).....16,5 g/l

**Registered by:**

BASF South Africa (Pty) Ltd

Co. Reg. No. 66/10235/07

852 Sixteenth Road

P.O. Box 2801

Halfway House 1685

+27 11 203 2400



**Batch No. & Date manufactured:** Refer to details printed on container

**Lotnommer & Datum vervaardig:** Verwys na besonderhede gedruk op houer

**UN-No. / VN-Nr:** 3082

**EMERGENCY NUMBERS / +27 82 446 8946 or +27 11 203 2420**

**In case of poisoning, call the following number: +27 82 446 8946**

# 10 l

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