IOXYNIL 225 EC

Reg. No.: L 9021 Act / Wet No. 36 of/van 1947

An emulsifiable concentrate selective herbicide for the control of certain broadleaf weeds in onions and garlic

‘n Emulgeerbare konsentraat selektiewe onkruiddoder vir die beheer van sekere breëblaaronkruide in uie en knoffel.

<table>
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<tr>
<th>HRAC HERBICIDE GROUP CODE</th>
<th>C3</th>
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<td>HRAC ONKRUIDDODERGROEP KODE</td>
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ACTIVE INGREDIENT/ AKTIEWE BESTANDDEEL:
Ioxynil as octanoate ester (nitrile) / Loksinil as oktanoaat ester (nitriel) .................... 225 g/l

Registration holder / Registrasiehouer:
ARYSTA LifeScience South Africa (Pty) Ltd
7 Sunbury Office Park
Douglas Saunders Drive
La Lucia Ridge, 4019
Tel: 031 514 5600

Contents/Inhoud

Batch No. / Lot Nr.: 

Date of manufacture:/ Datum van vervaardiging:

U.N. No. 1993

READ THE LABEL IN DETAIL BEFORE OPENING THE CONTAINER. / LEES DIE ETIKET VOLLEDIG VOORDAT DIE HOEUR OOPGEMAAK WORD.
For full particulars, see enclosed leaflet. / Vir volledige besonderhede, sien ingeslote pamflet.
IOXYNIL 225 EC
Reg. No.: L 3021 Act/Wet No. 36 of/van 1947

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HARMFUL SKADELIK

WARNINGS:

Allow a minimum of 70 days between application and harvesting

• Handle with care.
• Harmful when swallowed, inhaled or absorbed through the skin.
• Irritating to eyes.
• Toxic to fish and aquatic organisms.
• Moderately toxic to honey bees.
• Store in a cool place, away from food, feed, seed or other agricultural remedies.
• Keep out of reach of children, uninformed people and animals.
• FLAMMABLE - Do not store near open flame.
• Re-entry – Do not enter treated area within one day after treatment unless wearing protective clothing.
• In case of poisoning – CALL A DOCTOR AND MAKE THIS LABEL AVAILABLE.

Although IOXYNIL 225 EC has been tested on most important cultivars and no significant phytotoxicity in the form of yield reduction has been recorded under normal growing conditions, this does not mean that a more sensitive cultivar might not be commercialized in the future. Where a new cultivar is encountered, large areas should not be sprayed without prior testing of IOXYNIL 225 EC on that cultivar.

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 weeds to 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 failure of the user to follow the label instructions or 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.

IOXYNIL 225 EC/ARYSTA/MAY2011
PRECAUTIONS:

- Do not inhale fumes or spray mist.
- Do not swallow this product.
- Avoid skin and eye contact.
- Wear protective clothing (overall, face shield, boots, rubber gloves) when handling or applying the product.
- Wash contaminated clothing daily.
- Wash with soap and water after contact.
- Do not eat, drink or smoke whilst mixing or applying or before washing hands and face and changing clothes.
- Prevent spray drift onto other crops, grazing, rivers and dams or areas not under treatment.
- Clean all equipment thoroughly after use and do not pollute the environment with wash water.
- When empty, invert the container over the spray tank or mixing tank and allow it 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 at least one tenth of that of the container and add the rinsings to the contents of the spray tank.
- Destroy the container by puncturing and burying or burning it.
- Do not use the container for any other purpose.
- Prevent contamination of food, eating utensils, feed and drinking water.

SYMPTOMS OF POISONING:

Nausea, vomiting, diarrhoea, small pupils, abdominal cramps, muscular weakness, pulmonary oedema, shock, convulsions.

FIRST AID TREATMENT:

Always obtain treatment by a doctor immediately.

The airway should be kept clear to maintain respiration. First aid treatment should be performed by qualified medical personnel and should include, if necessary, mouth-to-nose respiration and cardiac massage.

**Inhalation:** Immediately remove source of contamination or move the patient to fresh air. Keep the patient warm and at rest. If necessary, perform mouth-to-nose respiration and administer oxygen. **Obtain medical advice immediately.**

**Skin contact:** Remove contaminated clothing, shoes and leather goods immediately. Wash skin gently and thoroughly with clean water and non-abrasive soap until no evidence of chemical remains. **Obtain medical advice immediately.**

**Eye contact:** Flush eyes immediately with large amounts of gently flowing cold water, occasionally lifting upper and lower lids, for at least 15 to 20 minutes until no evidence of chemical remains. **Obtain medical advice immediately.**

**Ingestion:** Do not induce vomiting, due to aromatic solvent present in product. **Obtain medical advice immediately** and make the container, or label or Data Sheet available. Never give anything by mouth to a semi-conscious or unconscious person. If vomiting occurs, take care to prevent vomit from being inhaled. Establish and maintain airway. Treat respiratory difficulty with artificial respiration and oxygen.

**INFORMATION FOR DOCTOR:**

No specific antidote. Administer gastric lavage and symptomatic treatment e.g., anti-convulsants (barbituates) when necessary.
RESISTANCE WARNING:

IOXYNIL 225 EC is a group code C3 herbicide. Any weed population may contain individuals naturally resistant to IOXYNIL 225 EC and other group code C3 herbicides. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds may not be controlled by IOXYNIL 225 EC or any other group code C3 herbicide.

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.
- Integrate other control methods [chemical, cultural, biological] into weed control programmes.

For specific information on resistance management contact your local Arysta LifeScience.

DIRECTIONS FOR USE: USE ONLY AS DIRECTED

COMPATIBILITY:

Do not mix IOXYNIL 225 EC with any other products, i.e., crop protection remedies, adjuvants or fertilizers.

MIXING INSTRUCTIONS:

Thoroughly mix the recommended quantity of IOXYNIL 225 EC with clean water as follows:

Add approximately half the required volume of water to the spray tank. Then add the required quantity of IOXYNIL 225 EC as recommended below and top up to the volume of water required. Ensure that the mixture is thoroughly mixed. Do not allow the mixture to stand overnight.

METHOD OF APPLICATION:

Use either a conventional tractor sprayer or hand applicator. Ensure thorough coverage of the weeds by using at least 350 ℓ of spray mixture per hectare.

Do not use concentrated sprays.

Do not apply IOXYNIL 225 EC with spray apparatus that produces very small spray droplets, e.g., air assisted sleeve boom sprayers or mist blowers as this could result in crop damage.

APPLICATION TABLE:

<table>
<thead>
<tr>
<th>CROP</th>
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<tr>
<td>ONIONS Direct seeded</td>
<td>2 to 2,75 ℓ</td>
<td>Apply IOXYNIL 225 EC after the onion plants have developed 3 to 4 true leaves. See also “IMPORTANT NOTES”.</td>
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<td>------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Sett planted</td>
<td>2 to 2,75 ℓ</td>
<td>Apply after the onion plants have developed 3 to 4 true leaves. This application should Preferably follow a clean cultivation, or a pre-emergence herbicide treatment. See also “IMPORTANT NOTES”</td>
</tr>
<tr>
<td>Transplanted seedlings</td>
<td>2 to 2,75 ℓ</td>
<td>Apply when when transplanted onions are well established. See also “IMPORTANT NOTES”</td>
</tr>
<tr>
<td>GARLIC</td>
<td>2 to 2,75 ℓ</td>
<td>Apply after the garlic plants have developed 3 to 4 true leaves. See also “IMPORTANT NOTES”</td>
</tr>
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</table>

When applying IOXYNIL 225 EC, ensure weeds are fully emerged and younger than the 6-leaf stage. For problem weeds ensure weeds are in a very young seedling stage.

The weeds should be fully emerged, but not older than the 6-leaf stage (very young seedling stage for problem weeds listed below).

- In the case when the weeds were not in the correct growth stage at the time of application. Apply IOXYNIL 225 EC twice at 2 ℓ/ha. Apply the first as soon as practicable after the crop has reached the correct growth stage and the second 14 to 21 days later.

- IOXYNIL 225 EC may be applied at 2 to 2,75 ℓ/ha if a second germination of weeds occurs later in the season, depending on weed size, but not to mature onion or garlic plants less than 70 days before the anticipated harvest date.

- Do not tank mix IOXYNIL 225 EC with post-emergence grass herbicides as excessive phytotoxicity to the crop could result.

- Leaf scorch and some distortion may occur on crop after spraying IOXYNIL 225 EC. This is usually transitory and will not affect yield.

- Adverse growing conditions (e.g., extreme cold or heat, frost, drought, waterlogging, wind or sand damage) or the presence of pests or diseases before or after application may cause crop damage. Do not use IOXYNIL 225 EC under these conditions.

- Do not spray immediately before sprinkler irrigation or when rain is likely to fall. A three hour drying period after application is necessary.

**WEEDS CONTROLLED BY IOXYNIL 225 EC:**

- *Amaranthus deflexus* perennial pigweed
- *Amaranthus hybridus* common pigweed
- *Anagallis arvensis* pimpernel
- *Capsella bursa-pastoris* shepherd’s purse
- *Chenopodium album* white goosefoot
Chenopodium murale  nettle-leaved goosefoot
Datura ferox  large thorn apple
Datura stramonium  thorn apple
Emex australis  spiny Emex
Erodium moschatum  musk heron's bill
Fallopia convolvulus  climbing knotweed
Fumaria muralis  fumitory
Galinsoga parviflora  gallant soldier
Hypochoeris radicata  hairy wild lettuce
Ipomoea coscinosperma  -
Melilotus indica  annual yellow sweet clover
Raphanus raphanistrum  wild radish
Sesamum triphyllum  wild sesame
Scleranthus annuus  knawel
Sonchus oleraceus  sowthistle
Tagetes minuta  khaki weed
Tribulus terrestris  dubbeltjie

Problem weeds:

These weeds will only be controlled by IOXYNIL 225 EC if sprayed in the very young rosette or seedling stage.

Argemone ochroleuca  white-flowered Mexican poppy
Polygonum aviculare  prostrate knotweed
Spergula arvensis  corn spurry

NOTE: IOXYNIL 225 EC controls the abovementioned weed species. Other weed species that were not present during the development trials with the product may possibly also be controlled to a certain degree. The registration holder does not, however, accept responsibility for unlisted weeds.