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Intelex®

Reg. No.: L9895 Act No. 36 of 1947

FOR FULL PARTICULARS, SEE ENCLOSED PAMPHLET
HRAC HERBICIDE GROUP CODES E & K3

An emulsifiable concentrate herbicide, for the pre-emergent control of annual grasses and annual broadleaf weeds (as indicated) and the suppression of yellow nutsedge in maize and sugarcane.

Active ingredients: Saflufenacil (pyrimidinedione) ..... 68 g/ℓ
Aktiewe bestanddele: Dimethenamid-P (chloroacetamide)..... 600 g/ℓ

Reg. Nr: L9895 Wet Nr 36 van 1947

VIR VOLLE BESONDERHEDE, SIEN INGESLOTE PAMFLET
HRAC ONKRUIDODERGROEPKODES E & K3

'n Emulgeerbare konsentraat onkruiddoder, vir die voor-opkoms beheer van eenjarige grasse en eenjarige breëblaaronkruide (soos aangetoon) en die onderdrukking van geeluintjies in mielies en suikerriet.



Registered by / Geregistreer deur:

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UN No. / VN Nr: 3082
EMERGENCY NUMBER / NOODNOMMER: 083 265 3805

10 ℓ

Batch Number / Lotnommer:

Date manufactured / Datum vervaardig:

®Registered Trademark of BASF / Geregistreerde Handelsmerk van BASF

81116395ZA1047



CAUTION
VERSIGTIG



WARNINGS

- Sugarcane: Allow a minimum of 65 days between last application and harvest.
- Maize: Do not graze or feed animals before 35 days after application.
- Harmful when swallowed.
- Keep locked up, out of the reach of children, uninformed persons and animals.
- Keep in the original container and store in a cool place away from food and feeds.
- Prevent contamination of food, feed, drinking water and eating utensils.
- Irritating to eyes and skin; avoid contact, ingestion and inhalation.
- May cause sensitization in contact with skin.
- Toxic to aquatic organisms.

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, the environment, 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.

PRECAUTIONS

- Wear rubber gloves and boots, overall and face shield when handling the concentrate and whilst applying.
- Wash contaminated clothing after use.
- Do not inhale spray mist.
- Do not eat, drink or smoke whilst mixing, or applying the product.
- Wash hands and face with soap and water after use and accidental skin contact.
- 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 empty 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 by perforation, flattening and burying and never re-use for any other purpose.
- Clean application equipment after use.
- Dispose of equipment wash water where it will not contaminate crops, grazing, rivers, dams etc.

USE RESTRICTIONS

- Avoid spray drift onto desirable vegetation, or non-target areas.
- Prevent contamination of grazing, rivers, dams and areas not under treatment.
- Avoid overlapping spray swaths.
- **IN CASE OF CROP FAILURE AND A SUBSEQUENT REPLANT WITH MAIZE, DO NOT REAPPLY Intelex®. UNDER SUCH CONDITIONS, ALTERNATIVE OPTIONS FOR WEED CONTROL SHOULD BE SELECTED.**

WAITING PERIOD FOR FOLLOW-UP CROPS

- **Intelex®** relies on soil residual activity for extended weed control. To avoid possible damage to follow-up planting with crops sensitive to the herbicide, the waiting periods as indicated below should lapse between the application of **Intelex®** and the planting of the following crop.
- The waiting periods mentioned here will only be valid if:
  - The standard, recommended **Intelex®** application rate for the soil type, was not exceeded, and
  - at least 350 mm of well distributed rainfall and / or irrigation was recorded, which was enough to ensure a reasonable harvest. This rain or irrigation must have occurred after the application of **Intelex®** and prior to the planting of the follow-up crop.
- Deep soil cultivation that will turn the soil and ensure dilution of the top layer must be applied before planting of a follow-up crop.
- In the instance of a crop failure, where the planting of an alternate crop is required, a test planting, prior to the replant, is highly recommended.

CROP	WAITING PERIOD
Maize (refer to **USE RESTRICTIONS**), Sugarcane	None
Grain sorghum, popcorn & sweet corn	4 Weeks
Soya beans	10 Weeks
Wheat, oats and barley	18 Weeks
All other crops	36 Weeks

RESISTANCE WARNING

Intelex® contains active ingredients belonging to the pyrimidinedione and chloroacetamide classes of herbicides. The modes of action of these groups are inhibition of protoporphyrinogen IX oxidase (PPO) and inhibition of cell division respectively, and as such it is classified by HRAC as a group codes E and K3 herbicide.
Certain naturally-occurring weed biotypes, resistant to HRAC group codes E and K3 herbicides, may exist through normal genetic variability in any weed population. These resistant individuals can eventually dominate the weed population if these groups of herbicides are used repeatedly. These resistant weeds will not be controlled

by Intelex® and are unlikely to be controlled by other herbicides of group codes E and K3.

Since the presence of resistant weeds is difficult to detect prior to herbicide application, it is of the utmost importance that treated areas be inspected at regular intervals, to timeously identify the occurrence of herbicide resistant weeds. BASF SA (Pty) Ltd will not accept liability for performance failures in the event of a build-up of resistant weeds resulting from inadequate resistance management practices.

To delay herbicide resistance:

- **Avoid exclusive, repeated use of herbicides, from the same herbicide group codes.**
- **Integrate other control methods (chemical rotation, cultural, crop rotation, biological) into weed control programmes.**

FOR SPECIFIC INFORMATION ON RESISTANCE MANAGEMENT, CONTACT YOUR LOCAL BASF SA (Pty) Ltd REPRESENTATIVE.

DIRECTIONS FOR USE: USE ONLY AS DIRECTED

General information:

- **Intelex®** is a pre-emergent, broad-spectrum herbicide, for the control of annual grasses and annual broadleaf weeds (as indicated), and for the suppression of yellow nutsedge in maize and sugarcane.
- Saflufenacil is readily absorbed by plant roots, shoots and leaves. Once absorbed, saflufenacil is predominantly translocated via the xylem, with relatively little movement in the phloem.
- The site of uptake of dimethenamid-P is through the coleoptile in monocotyledonous plants (grasses), and through the hypocotyl and developing roots in dicotyledonous plants (broadleaf weeds). Uptake occurs between germination of the seed and emergence of the seedling from the soil.
- The timing of application should therefore occur in time, to enable **Intelex®** to enter the soil moisture (activation) and reach the target site, prior to the emergence of the weeds.
- Rain or irrigation is required, prior to weed emergence, to facilitate activation.
- Late applications or activation, or applications to weeds that have already emerged, will result in greatly reduced efficacy.

Mixing instructions:

- Three-quarter fill the spray tank with clean water.
- Shake the **Intelex®** container well and measure the required volume of **Intelex®** and pre-mix with at least 10 ℓ of 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.
- Maintain agitation while mixing and spraying.
- The prepared spray mixture must not be left in the spray tank for any length of time, e.g. overnight.

APPLICATION INSTRUCTIONS

Ground application:

- **Intelex®** must be applied as an overall application at planting of the crop, or within three days thereof, and pre-emergence of the weeds, using a minimum of 200 ℓ of water / hectare.
- **Do not apply after emergence of the crop as this will result in crop damage.**
- Any medium or high volume tractor-mounted sprayer can be used, as long as the sprayer can be properly calibrated and is fitted with effective tank agitation.
- The spray-boom should be fitted with suitable spray nozzles to ensure a uniform, even distribution of the herbicide on the soil surface.
- Manage spray drift to avoid contact with non-target plant foliage.

TABLE 1 APPLICATION RATES

CROP	% CLAY	DOSAGE ℓ / ha	DIRECTIONS FOR APPLICATION
MAIZE	0 – 16 16 – 25 26 – 35 >35	0,6 – 0,9 0,9 – 1,2 1,2 – 1,5 1,5	Apply as an overall application at planting of the crop in 200 ℓ water/ha. Use of **Intelex®** in sandy soils, with less than 16 % clay, is recommended only if grass weeds present the main problem and pressure from broadleaf weeds is low. Refer to **Mixing instructions, Ground application** and **IMPORTANT NOTES**.
SUGARCANE (Dryland and Irrigated)	-	1,5	Apply as an overall pre-emergent application **at planting**, or in the case of **ratoon cane**, directly after harvesting the previous crop. Apply in 200 ℓ water / ha. Refer to **Mixing instructions, Ground application and IMPORTANT NOTES.**

For late germinating weeds in maize, the following post–emergent products are registered:

- **Basagran®** (Reg. No. L2916 Act No. 36 of 1947)
- **Stellar® Star** (Reg. No. L9391 Act No. 36 of 1947)
- **Campus®** (Reg. No. L8521 Act No. 36 of 1947)

Refer to the respective product labels.

N.B.: REFER TO THE SPECIFIC USE RESTRICTIONS, RESISTANCE WARNINGS, DIRECTIONS FOR USE, AND IMPORTANT NOTES.

IMPORTANT NOTES

1. **Intelex®** must be applied **at planting of the crop** and prior to the emergence of weeds. **Weeds that have emerged at time of application will not be controlled.** Apply pre-emergence only.
2. When **planting into moist soil, Intelex®** must be applied within three days after planting (but preferably at planting) onto a fine, even, firm and freshly prepared, weed-free seedbed. **No more than three days should lapse between planting and application.**
   - To obtain good results, it is necessary that application be followed by 10 - 15 mm of rain, or sprinkler irrigation, before the weeds emerge.
3. When **planting into dry soil** (insufficient moisture for germination), **Intelex®** must be applied as close as possible to, but definitely before, the first rain. Weeds that have already emerged at the time of application will not be controlled.
   - Under dry conditions, efficacy will be improved by a shallow incorporation of the product - not deeper than 10 - 20 mm.
   - If rainfall does not occur in time, emerging weeds will be stunted and can easily be controlled with a shallow cultivation that will simultaneously mix the herbicide with the top 10 - 20 mm of soil.
   - Deep cultivation should be avoided as this will dilute the product in the soil and deposit untreated soil on the surface. This will result in poor weed control.
4. **Soil displacement:**
   - Weed control may be reduced if heavy rains erode or wash away the soil surface containing the herbicide.
   - Application to a poorly prepared seedbed with clods on the soil surface will result in reduced efficacy.
   - Where crops have been planted in furrows and rains redeposit the treated soil from the sides of the furrow into a concentrated layer, directly above the planted seeds, crop damage may occur.
5. **Minimum cultivation or no-till situations:**
   - Surface trash may result in reduced efficacy.
   - In sugarcane, application to loose trash that may be displaced by wind can result in reduced efficacy.
6. Prolonged cool and wet weather conditions, heavy rainfall and/or excessive irrigation, infection of seed and young seedlings by soil- or seed borne diseases, seeds planted too deep, or too shallow, etc., may lead to delayed emergence and transient crop damage. Always ensure that seed to be planted is treated with an effective seed treatment fungicide, to provide protection during such conditions.
7. **Do not apply Intelex® in the following situations as crop damage may occur:**
   - On poorly drained soils, soils with a compaction layer, or soils with nutrient deficiencies.
   - On inbred parent plants of maize hybrids, or experimental, or newly released varieties of all **Intelex®** registered crops, including any seed production of any of the **Intelex®** registered crops, without first consulting the distributor or manufacturer.
   - Crop damage can also be expected where soil capping occurs, prior to the emergence of the seedlings, or if seedling germination is retarded.
   - Where an at-plant application of an organophosphate or carbamate insecticide is planned, or has occurred.
8. Heavy rainfall and / or irrigation shortly after application may lead to limited residual herbicidal activity.

TABLE 2 CONTROL OF GRASSES

The following grass species are normally controlled by a pre-emergent application of **Intelex®** at the indicated dosage rates.

SCIENTIFIC NAME	COMMON NAME	SCIENTIFIC NAME	COMMON NAME
Brachiaria eruciformis	Sweet signal grass	*Panicum maximum*	Buffalo grass
Digitaria ciliaris	Tropical finger grass	*Panicum schinzii*	Sweet buffalo grass
Digitaria sanguinalis	Crab finger grass	*Setaria pallide-fusca*	Red bristle grass
Echinochloa crus-galli	Barnyard grass	*Setaria verticillata*	Sticky bristle grass
Eleusine corocana	Goose grass	*Urochloa panicoides*	Herringbone grass

TABLE 3 CONTROL OF BROADLEAF WEEDS

The following broadleaf weed species are normally controlled by a pre-emergent application of **Intelex®** at the indicated dosage rates.

SCIENTIFIC NAME	COMMON NAME	SCIENTIFIC NAME	COMMON NAME
Ageratum conyzoides	Billy goat weed	[1] *Datura ferox*	Large thorn apple
Amaranthus hybridus	Common pigweed	[1] *Ipomoea purpurea*	Common morning glory
Amaranthus spinosus	Thorny pigweed	*Portulaca oleracea*	Purslane
Amaranthus thunbergii	Red pigweed	*Richardia brasiliensis*	Tropical richardia
Bidens pilosa	Blackjack	*Schkuhria pinnata*	Dwarf marigold
Cleome monophylla	Spindlepod	*Solanum nigrum*	Black nightshade
[1] *Commelina benghalensis*	Bengal wandering Jew	*Tagetes minuta*	Khaki weed
Crotalaria sphaerocarpa	Mealie crotolaria	[1] Xanthium strumarium	Cocklebur

[1] The control of these weeds is variable.
Late and deep germinating weeds will not be effectively controlled.

TABLE 4 SUPPRESSION OF THE FOLLOWING WEEDS

SCIENTIFIC NAME	COMMON NAME
Cyperus esculentus	Yellow nutsedge

Control of yellow nutsedge can be improved, provided the following conditions are met:

- Planting is immediately preceded by thorough ploughing with a mouldboard plough.
- A fine, even, and firm seedbed is prepared.
- Application is followed by at least 10 - 15 mm of soft penetrating rain (or irrigation) to wash the herbicide into the soil, prior to the emergence of yellow nutsedge (normally 7 - 10 days after ploughing). More rain is required on heavier soils to obtain good results. Insufficient moisture is often the reason why poor control is experienced on turf soils.
- When planting into moist soil, application of **Intelex®** should be made at, or immediately after planting, to ensure herbicide activation, prior to emergence of yellow nutsedge.
- When planting into dry soil (insufficient moisture for yellow nutsedge germination), **application should be timed as close as possible to, but definitely before, the first rain.**

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

Basagran® (Reg. No. L2916 Act No. 36 of 1947), **Stellar® Star** (Reg. No. L9391 Act No. 36 of 1947) and **Campus®** (Reg. No. L8521 Act No. 36 of 1947) are registered trademarks of BASF.