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ESPLANADE®

500SC

Herbicide

GROUP L29 HERBICIDE

REG. NO. L11023 (ACT NO. 36 OF 1947)
Before using this product read the label carefully

A PRE-EMERGENCE SUSPENSION CONCENTRATE HERBICIDE WITH LONG RESIDUAL ACTIVITY FOR THE CONTROL OF A VARIETY OF ANNUAL BROADLEAVED AND GRASS WEEDS IN NON-CROP AND INDUSTRIAL VEGETATION MANAGEMENT AREAS: ROADSIDES; POWER STATIONS, SUB-STATIONS, AND POWER LINES; FENCE LINES, RAILWAYS AND FALLOW LAND, AND FORESTRY (EUCALYPTUS AND PINUS)



Warning
Hazard statements: May cause damage to organs (Nervous system) if swallowed. Very toxic to aquatic life with long lasting effects.
Precautionary statements: Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. Wear protective gloves/ protective clothing/ eye protection/ face protection.

ACTIVE INGREDIENTS:
Indaziflam (Alkylazine).....500 g/l
REGISTRATION HOLDER:
2022 Environmental Science ZA (Pty) Ltd.
Reg No. 2022/228577/07
P.O. Box 143, ISANDO 1600, SOUTH AFRICA
TEL: (011) 921 5911
Esplanade® is a registered trademark of the Bayer Group / is 'n geregistreerde handelsmerk van die Bayer Groep.
UN No. 3082

500 ml

envu™



Broadleaf weeds and grasses



Amaranthus hybridus
Hybrid pigweeds



Bidens pilosa
Common blackjack



Conyza spp (Erigeron bonariensis)
Hybrid pigweeds



Tagetes minuta
Tall khaki weed



Avena fatua
Common wild oats



Chloris virgita
Feathertop chloris



Digitaria sanguinalis
Hairy finger grass

Batch no: / Lotnommer: See container
Date of manufacture: / Datum vervaardig: See container
Shelf life: 2 years after date of manufacture
IN CASE OF POISONING PLEASE CALL / IN GEVAL VAN VERGIFTIGING SKAKEL ASSEBLIEF
0861 555 777

6 005317 001300

envu™

ZA87357783E

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DISCLAIMER:
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.

WARNINGS:

Hazard statements

May cause damage to organs (Nervous system) through prolonged or repeated exposure if swallowed.
Contains 1,2-benzisothiazolin-3-one. May produce an allergic reaction.
To avoid risks to human health and the environment, comply with the instructions for use.

- Handle with care.
- Store in a cool place away from food, feed, seed, and other agricultural remedies.
- Keep out of reach of children, uninformed persons, and animals.
- Harmful if swallowed. Avoid contact with eyes, skin, or clothing.
- May cause damage to organs (nervous system) through prolonged or repeated exposure.
- Very toxic to aquatic life with long-lasting effects, do not allow to get into surface water, drains or ground water.
- The product is medium toxic to bees and earthworms

Re-entry: Do not enter treated areas until sprays have dried.

PRECAUTIONS:

Precautionary statements

IF exposed or concerned: Call a POISON CENTER/ doctor/ physician.
Collect spillage.
Dispose of contents/container in accordance with local regulation.

- Avoid unnecessary contact with the product. Do not breathe dust, fume, gas, mist, vapours from sprays. Severe misuse can result in damage to health. Only protected handlers may be in the area during application.
- Wear protective clothing (water and chemical-resistant overall, rubber boots, rubber gloves) when handling or applying the product.
- Wash with soap and water immediately after use or accidental skin contact.
- Do not eat, drink, or smoke whilst mixing, applying, or before washing hands and face with soap and copious amounts of water.
- Prevent contamination of food, feedstuffs, drinking water and eating utensils
- Wash contaminated clothing daily.
- Sedimentation of the formulation may occur during storage. Shake the bottle well just before the usage.
- Use only ground equipment; do not apply through mist blowers.
- **Esplanade® 500SC** should be applied with a properly calibrated sprayer (therefore, the sprayer needs to be checked before using, if it is working properly).
- For best results use flat fan nozzles or comparable nozzles to achieve uniform spray distribution. Uniform application is essential for satisfactory weed control. Avoid overlap; spray swaths should be matched.

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- Rain and/or irrigation of at least 20mm within 21 days from application should follow treatment. **Esplanade® 500SC** must be applied only after the first significant rain event on a moist soil.
- Applications should be made only when there is little or no risk of spray drift or movement (run-off/erosion via wind and water) of applied product into non-target and/or sensitive areas. Sensitive areas are defined as bodies of water (ponds, lakes, rivers, and streams), wetland, habitats of endangered species, agricultural crop areas and land adjacent to area being treated. **Esplanade® 500SC** can damage any non-target crops or desirable plants, especially in areas where there are shallow roots
- Prevent spray mist or drift onto the foliage of non-target vegetation
- Maintain adequate agitation at all times including momentary stops. Since settling may occur and be difficult to get back into suspension, spray solution should not be left in the tank overnight
- Clean application equipment immediately after use, dispose of wash water where it will not contaminate non target areas, rivers, and dams. The spray equipment must be cleaned thoroughly to prevent contamination of subsequent applications.
- Rinse empty container three times with a volume water equal to at least one tenth of that of the container and add the rinsing to the contents of the spray tank before disposing of the container in the prescribed manner.
- Leftover product, empty containers and packaging should not be re-used. Destroy empty container by perforation and flattening and never use for any other purpose.
- Soil should be left undisturbed after treatment to reduce the potential for movement by soil erosion (wind and water). Fine textured, dry soil or light or sandy soil are more sensitive to such off-site movement. Applications may not be made to soil that is subject to wind erosion when less than a 60% chance of rainfall is predicted to occur in the treatment area within 48 hours. Applications made during periods of intense rainfall, to soils saturated with water, or soils through which rainfall will not readily penetrate may result in off-site movement via runoff and erosion.
- Do not plant and/or sow any ornamental or agricultural plants within 3 years of the application date. The residues of the product in the soil may prevent the normal development of these plants for 3 years from application date. Deep ploughing (depth minimum 60cm) might be required to further break the herbicide layer
- Do not graze or feed forage, hay, or straw from treated areas to livestock
- Indaziflam-containing products should be stored under lock and key, in a cool, but frost-free place, away from food for human or animal consumption, and out of the reach of children. The product should be kept only in the original sales container
- **Esplanade® 500SC** is a pre-emergence herbicide only. Already emerged weeds should therefore be controlled by using a registered post-emergence herbicide. A compatibility test must be conducted with any potential tank mix partner with **Esplanade® 500SC** prior application.

RELEVANT SUBSTANCES

Name	CAS-No. / EC-No. / REACH Reg. No.	Conc. [%]
Indaziflam	950782-86-2 01-2119859514-31-xxxx	45,46
Ethoxylated polyarylphenol	99734-09-5	>= 0,1 – <= 25
1,2-Propanediol	57-55-6 01-2119456809-23-XXXX	>= 1
1,2-Benzisothiazol-3(2H)- one	2634-33-5 01-2120761540-60-0003	> 0,005 – < 0,05

USE RESTRICTIONS:

- Do not apply this product in a way that will contact workers or other persons, either directly or through drift
- Do not exceed 150 ml per hectare of **Esplanade® 500SC** in a single application for all Vegetation Management. Do not exceed 300 ml per hectare of **Esplanade® 500SC** for all Vegetation Management applications within year from the previous application. Allow at least 90 days between applications of **Esplanade® 500SC** herbicide

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- Do not make application to natural or man-made bodies of water such as lakes, reservoirs, ponds, streams, canals, and ditches including the outer banks. Keep following buffers to protect those water bodies:
  5m → Broadcast applications including railroad and roadside rights-of-way.
  2m → All handheld spot treatment applications.
- Do not make applications when circumstances favour movement from treatment sites onto human habitation or areas of human activity such as houses, cottages, schools, and recreational areas.
- Do not spray, drain, or flush equipment on or near desirable trees or plants or where their roots may extend to. Water used for cleaning must not be allowed to contaminate untreated areas as well as surface or ground water
- Do not contaminate water intended for irrigation and domestic use and do not apply through any kind of irrigation/chemigation system
- Do not use on residential lawns, golf courses, sod farms, or production and landscape ornamentals
- Do not apply **Esplanade® 500SC** on intertidal areas below the mean high-water mark or to areas where surface water is present
- Do not apply **Esplanade® 500SC** where excessive debris or mulch is present on the soil surface
- Do not use **Esplanade® 500SC** on soils with more than 20 % gravel content
- Do not apply **Esplanade® 500SC** on areas with slopes without sufficient buffer zones, vegetation strips or basins to collect water and particle run-off.
- Do not apply to frozen or snow-covered ground.
- Do not spray on soils with cracks, excessively drained soils incl. very sandy soil and soil with low organic carbon (< 1%) and/or low clay content (<5%).
- Do not apply when treated soil particles might be blown off target onto cropland.
- Do not apply this product to water-saturated soil.
- Any other use not in accordance with the directions on this label may cause damage to desirable vegetation

Spray Drift Management:
Avoiding spray drift is the responsibility of the applicator.
For all applications, follow spray drift reducing guidelines: Use a minimum spray volume of 100 L/ha for boom sprayers or a hand-held spray guns. The spray boom height should be as-low-as possible; do not set higher than 1 m above the ground or canopy unless necessitated by the application equipment. Use spray pressure as low as practical.

Apply **Esplanade® 500SC** using nozzles which deliver coarse, or greater (VMD>350 microns) droplets as defined by ASABE S572 standard. Use shielded sprayers where practical; Do not spray when wind speed is greater than 16 km/h or during a temperature inversion. Do not allow spray drift or runoff/ erosion water to fall into irrigation ditches/canals or other channels that carry water. A drift control agent may be used at the manufacturer's listed rates in the application of **Esplanade® 500SC**. Shut off spray booms while starting, turning, slowing, or stopping to avoid off-target application.

RESISTANCE WARNING:

Esplanade® 500SC (Indaziflam) belongs to the Alkylazine group of herbicides. Indaziflam is a Cellulose Biosynthesis Inhibitor, and is classified as a Group Code L29 herbicide by HRAC. It inhibits crystalline cellulose deposition in the plant cell wall. This action severely affects cell wall formation as well as cell elongation and division. Consequently, only actively growing meristematic root and shoot tissues will be affected, hence germinating weed seeds die before emerging. Any weed population may contain or develop plants naturally resistant to Indaziflam and other Group Code L29 herbicide. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly. These resistant weeds may not be controlled by **Esplanade® 500SC** or any other Group Code L29 herbicide.

Since the presence of resistant weeds is difficult to detect prior to herbicide application, it is of the utmost importance that treated areas are timeously inspected at regular intervals to identify the occurrence of herbicide resistant weeds. 2022 Environmental Science ZA (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 as indicated on the label.

To delay herbicide resistance:
- Avoid exclusive, repeated use of herbicides from the same herbicide Group Code (same mode of action).
- Alternate with products from different herbicide Group Codes (different mode of action)

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- Integrate other control methods [chemical, cultural, etc.] in weed control programmes.
- Any weed regrowth should be spot sprayed with a registered post-emergence herbicide before it becomes well developed and flowers.

For specific information on resistance management contact your local 2022 Environmental Science ZA (Pty) Ltd. representative.

No resistant biotype has been reported against Indaziflam. Rotation or mixing with other MOA is recommended to secure stable activity on weeds in the long run

First Aid Measures

- In case of skin contact wash with polyethylenglycol 400, if not available flush with copious amounts of water. Remove contaminated clothing.
- In the case of contact with eyes, rinse eyes with lukewarm water for 15 minutes.
- In the case of actual or suspected swallowing, the patient should be kept strictly at rest. Decontamination and first aid should be performed. The patient should be seen by a doctor. This technical information brochure or the safety data sheet should be provided to the doctor.
  There is no known antidote. Treatment after appropriate decontamination should be symptomatic and supportive.
  In case of emergency, please contact: 0861 555 777

DIRECTIONS FOR USE: USE ONLY AS DIRECTED

MIXING AND APPLICATION INSTRUCTIONS:

1. Half fill the spray tank with water.
2. Mix the required amount of **Esplanade® 500SC** with a little clean water before adding to the spray tank.
3. Keep the mixture in continuous suspension by means of agitation and use the spray mixture within 6 hours after mixing.
4. Apply with correctly calibrated equipment which will distribute the required amount evenly over the area to be treated in a spray volume of at least 100 ℓ/ha. Use a coarse spray droplet as to reduce drift. Good results are obtained using flat-fan or double outlet flat fan (Twin Jet) spray nozzles to ensure even spray distribution. However, where there is a danger of drift onto susceptible plant tissue, drift reducing type nozzles or equivalent is recommended.
5. Apply with a backpack sprayer or mechanized application with a spray boom

Cleaning instructions:

The cleaning procedure has to be done immediately after spraying the product. Personal protective clothing is required for the cleaning procedure

Empty the sprayer down to the technical leftover. The technical rest liquid has to be diluted with clear water (in minimum 10 % of the total tank capacity) and has to be sprayed out - ensure that the inside walls of sprayer will be cleaned thoroughly - best option is to use a rotating cleaning nozzle. Knapsack sprayer:

After following this procedure, refill completely with fresh water and spray out. These steps have to be repeated, in case of products will be sensitive regarding crop safety or residues in succeeding crops. Filters have to be removed and cleaned separately. The cleaning procedure has to be done in an untreated part of the field. Visual inspection of all parts of the spray equipment, in particular inside tank walls, filters, and nozzles. In case residues are visible, repeat the cleaning process

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APPLICATION TABLE:

IVM Situation	APPLICATION RATE PER HECTARE	REMARKS
Railroads, Managed Roadsides, Fence Lines, Industrial Sites.	**Esplanade 500SC at 150 ml/ hectare. (150 ml/10,000 m^2)** Maximum two applications per year with a minimum 6-month time interval between any 2 applications. Application volume: With 100 – 600 litre of Water/hectare	Apply **Esplanade® 500SC** at or before the start of the rainy season to a weed free soil. Where **Esplanade® 500SC** is applied to established weeds, it must either be preceded or tank mixed with an appropriate registered post-emergence contact herbicide (to kill the existing weeds or the area should be cleaned by mechanical means prior to the application of **Esplanade® 500SC**

Forestry Situation	APPLICATION RATE PER HECTARE	REMARKS
Eucalyptus	Esplanade 500SC at 150 ml/ hectare. (150 ml/10,000 m^2) One (1) application is the maximum application recommended for the control of weeds during the main period of weed competition in the recommended crops. Maximum two applications per year with a minimum 6-month time interval between any 2 applications. Application volume: With 100 – 600 litre of Water /hectare	Apply **Esplanade® 500SC** by using directed spraying (e.g., with spray shield) on the crop inter-row ensuring min. 50 cm distant from crop trees, before the emergence of weeds, **60-90 days after planting in interrow application.** It is advised to apply the product under normal weather conditions, avoiding the application on dry cracked soils.
Pinus	Esplanade 500 SC at 150 ml/hectare One (1) application is the maximum application recommended for the control of weeds during the main period of grass competition in the recommended crops Application volume: With 100 – 600 litre of Water /hectare	Apply **Esplanade® 500SC** broadcast in the pine plantation before the emergence of weeds, **10 days after planting. Esplanade® 500SC** is selective for Pine trees if using the recommended application rate. It is advised to apply the product under normal weather conditions, avoiding the application on dry cracked soils.

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BROADLEAVED WEEDS CONTROLLED:

Ageratum conycoides	Flossflower
Amaranthus hybridus	Hybrid pigweeds
Arctotheca calendula	Cape marigold
Argemone ochuroleiuca	Mexican Poppy
Bidens pilosa	Common blackjack
Bromus diandrus	Ripgut brome
Chenopodium album	White Goosefoot
Conyza spp (Erigeron bonariensis)	Fleabane
Echium plantagineum	Narrow leaf ribwort
Emex australis	Spiny emex
Gomphrena densa	Prostate globe amaranth
Guilleminea celosiodes	Small matweed
Melilotus alba	White sweet clover
Plantago lanceolata	Narrow leaved Plantain
Pseudognapha lium lueo-album	Jersey cudweed
Raphanus raphanistrum	Wild radish
Richardia brasiliensis	Mexican Richardia
Salsola kali	Spiny saltwort
Schkuhria pinnata	Dwarf marigold
Sonchus oleraceus	Common Sow-thistle
Stellaria media	Common chickweed
Tagetes minuta	Tall khaki weed
Taraxaacum officinale	Common dandelion
Tribulus terrestris	Common thorn

GRASS WEEDS CONTROLLED:

Avena fatua	Common wild oats
Chloris virgata	Feathertop chloris
Commelina beghalensis	Wandering Jew
Digitaria sanguinalis	Hairy finger grass
Eleusine coracana	Goose grass
Eragrostis spp.	Love grass
Lolium spp.	Rye grass
Melinis repens	Natal red top
Panicum laevifolium	Sweet panic grass
Setaria verticilliata	Burr bristle grass
Tragus berteronianus	Small carrot seed grass

NOTES:

1. **Esplanade® 500SC** is activated by moisture and best weed control is achieved when applied to moist soil followed by + 15 mm rainfall or irrigation after application.
2. **Esplanade® 500SC** is a pre-emergence herbicide and will only control weeds that have not germinated at the time of application. If existing weeds are present, these may have a detrimental effect on the efficacy of **Esplanade® 500SC** if not chemically or mechanically well controlled.
3. Other weed species that were not present in development trials may also be controlled by **Esplanade® 500SC** however, 2022 Environmental Science ZA (Pty) Ltd. does not accept any liability in respect of the level of control of unlisted weeds.

For any product enquiry, contact 2022 Environmental Science ZA (Pty) Ltd - 011 921 5911 during office hours 9am to 5pm. For poisoning emergencies only, Griffon Poison Information Centre may also be contacted - 082 446 8946.

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