

Main Panel

Sentak[®] SC

Reg. No./Nr. L7730, Act No./Wet Nr. 36 of/van 1947

READ THE LABEL BEFORE USE
KEEP OUT OF REACH OF CHILDREN AND ANIMALS

A suspension concentrate herbicide for the control of various annual grasses and broadleaf weeds in the crops as listed.

'n Suspensie konsentraat onkruidodder vir die beheer van 'n verskeidenheid eenjarige grasse en breëblaaronkruid in gewasse soos aangedui.

GROUP/GROEP	5	HERBICIDE/ONKRUIDDODER
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Active ingredient:

Aktiewe bestanddeel:

Metribuzin (triazinone).....480 g/ ℓ..... Metribusien (triasinoon)

NET VOLUME



NETTO VOLUME



WARNING

GHS Hazard Statement

Very toxic to aquatic life with long lasting effects.

GHS Precautionary Statements

Wash thoroughly after handling.

Do not eat, drink, or smoke when using this product.



REGISTRATION HOLDER / REGISTRASIEHOUER:

Gouws & Scheepers (Pty) Ltd / (Edms) Bpk

Reg No. / Nr 1954/003213/07

Trading / Handeldrywend as:

Plaaskem (Pty) Ltd/ (Edms) Bpk

Reg. No. 1972/013867/07

P.O. Box / Posbus 14418

WITFIELD

1467

Tel: (011) 823 8000

IN CASE OF POISONING PLEASE PHONE / IN GEVAL VAN VERGIFTIGING SKAKEL ;
0861 555 777/082 4468946

Sentak[®] SC is a registered trademark of /'n geregistreerde handelsmerk AECI[®]
Limited/Beperk

Batch No:

Lotnommer:

DATE OF MANUFACTURE :

VERVAARDIGINGSDATUM:

UN No. / VN Nr. 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (Metribuzin)

Pamphlet

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WARNINGS:

GHS Hazard Statement

Very toxic to aquatic life with long lasting effects.

- Harmful if swallowed.
- Store in a cool place away from food, feed, fertilizers and other agricultural remedies.
- Keep out of reach of children, uninformed persons and animals.
- 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 TO HIM.**
- Aerial application - notify all inhabitants of the immediate area to be sprayed and issue the necessary warnings. Do not spray over or allow drift to contaminate water or adjacent areas.

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 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.

PRECAUTIONS:

GHS Precautionary Statements

Wash thoroughly after handling.

Do not eat, drink, or smoke when using this product.

Wear protective gloves, protective clothing, eye protection & face protection

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN: Wash with plenty of soap and water. call a POISON CENTER/doctor if you feel unwell.

Dispose of contents/container in accordance with local regulation.

- Do not inhale fumes or spray mist.
- Avoid skin and eye contact.
- In case of accidental eye contact, flush with plenty of water and get medical attention if necessary.
- Wash contaminated clothing after use.
- Prevent contamination of food, feeds, drinking water and eating utensils.
- Avoid drift of spray onto other crops, grazing, rivers, dams and areas not under treatment.
- Clean applicator thoroughly before re-using with other material – dispose of wash water where it will not contaminate crops, grazing or water.
- Triple rinse the empty container: Invert the empty container over the spray or mixing tank and drain for at least 30 seconds after the flow has slowed down to dripping. Thereafter rinse the empty container three times in succession with one quarter of the container volume fresh water and decant the rinsate into the spray or mixing tank. Puncture the triple rinsed container and dispose of via an approved collector or recycler (www.croplife.co.za). Do not bury, burn or donate the container to any other parties that may use it as a container for food or beverages.

RELEVANT SUBSTANCES:

Substance name (IUPAC/EC)	Concentration % by weight	Classification
		EC1272/2008
Metribuzin	40-50%	Acute toxicity oral (Category 4) H302. Aquatic acute 1 H400. Aquatic chronic 1 H410. (M=10)

NOTE: The other ingredients not included above, do not cause or contribute towards the correct GHS classification of **Sentak SC** and is therefore, in terms of the South African Regulations for Hazardous Chemical Agents - 2021; Regulation 14(b), not listed.

FIRST AID

In case of inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

In case of skin contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention if irritation occurs.

In case of eye contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Check for and remove any contact lenses. Get medical attention immediately.

In case of ingestion Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention.

NOTE TO PHYSICIAN

No specific antidote. Treat symptomatically.

USE RESTRICTIONS:

- Do not plant crops other than potatoes and sugarcane within 6 months of **Sentak SC** application.
- Crops such as maize, carrots, tomatoes, beetroot, asparagus, soyabeans and turnips may be planted 6 months after application of **Sentak SC**.
- Crops such as brassicae, cucurbits, onions, peas, beans, wheat, lettuce, tobacco and strawberries may be planted 12 months after **Sentak SC** application.
- Soil must be deeply and thoroughly ploughed before planting subsequent crops.

POTATOES

- Do not apply **Sentak SC** to winter-grown potatoes, or in areas where untimely frost occurs. Do not apply to potatoes during the months April to September. Cold spells after early spring application may cause stunting of potatoes. Differences in varietal sensitivity may occur. Under unfavourable conditions the varieties BP1, Koos Smit, Astrid, Late Harvest and Earliest of All are more prone to damage.
- Do not use on potatoes in the 'Sandveld' (Darling, Hopefield, Vredenburg, Piketberg, Velddrif, Het Kruis, Eendekuil, Aurora, Paleisheuwel, Redelinghuys, Elandsbaai, Leipoldville, Clanwilliam, Lambertsbaai, Vredendal, etc.) in the Western Cape.
- The use of poor quality, diseased seed or seedlings may lead to damage. Potato seed of 60 g and smaller are more prone to damage.
- In potatoes, too early ridging or disturbance of soil after **Sentak SC** application may result in shifting or concentrating the herbicide over the plant row with a possibility of phytotoxicity. Therefore, a period of 6 weeks should elapse between **Sentak SC** application and ridging.

GENERAL

- Do not use **Sentak SC** on poorly drained soils or soils with a compaction layer, as under these conditions waterlogging can occur and the herbicide may cause crop injury.
- Do not apply **Sentak SC** to any crop or situation not mentioned in this instruction leaflet.
- Only apply **Sentak SC** using an accurate and safe application technique.
- If **Sentak SC** is used in a tank mix with other recommended herbicides, consideration should be given to the restrictions of those respective products.

RESISTANCE WARNING:

For resistance management, **Sentak SC** is a group code 5 herbicide. Any weed population may contain individuals naturally resistant to **Sentak SC** and other group code 5 herbicides. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds may not be controlled by **Sentak SC** or any other group code 5 herbicide.

To delay herbicide resistance:

- Avoid exclusive repeated use of herbicides from the same herbicide group code. Alternate or tank mix with registered products from different herbicide group codes.
- Integrate other control methods (chemical, cultural, biological) into weed control programmes.

For specific information on resistance management contact the registration holder of this product.

The presence of resistant weeds is difficult to detect prior to use and therefore neither the Registration Holder nor the Distributor can accept responsibility for any losses as a result of **Sentak SC** not controlling resistant weeds. Do not apply **Sentak SC** alone in situations where weed resistance has been confirmed. Sub-standard application of **Sentak SC** or other group code C₁ herbicides will lead to inferior weed control and may assist in development of herbicide resistance.

MODE OF ACTION:

Metribuzin is a photosynthetic electron transport inhibitor at the photochemical system II receptor site.

DIRECTIONS FOR USE: USE ONLY AS DIRECTED

MIXING INSTRUCTIONS:

Half-fill the spray tank with suitable water, then add the required amount of **Sentak SC** to the water in the tank while agitating. Fill the spray tank to the desired volume. Should tank mixtures with other herbicides be made, follow the respective manufacturers' label recommendations. **Tank mixtures must be sprayed out immediately and not allowed to stand in the spray tank overnight.** Spraying equipment must be thoroughly flushed out at the end of the spraying operation.

COMPATIBILITY:

The compatibility of **Sentak SC** with other products depends on the formulations of the respective products as well as the quality of the spray water to be used. As formulations change from time to time it is recommended that a physical compatibility test be done prior to the tank mixture being made. **Sentak SC** is normally compatible with Bastion SC (Reg. No. L7129), **2,4-D Amine 480 SL** (Reg. No. L5233), Alachlor EC (Reg. No. L7328), Diuron 800 SC, Acetac EC (Reg. No. L6904), **Kestrel EC** (Reg. No. L 7298) and **Paragone SL** (Reg. No. L4588)

APPLICATION METHODS

Ensure that the equipment is correctly calibrated and is checked regularly during application to ensure even and accurate application.

Ground application:

Knapsack sprayers or tractor mounted boom sprayers may be used. A spray volume of 200 – 400 l/ha should be used for ground application and can be applied via solid or hollow cone nozzles. **Constant agitation throughout the spray operation is essential.** Only clean water should be used. Prevent overdosing by avoiding overlapping of swaths and closing the nozzles while starting, slow movement, turning and stopping.

AERIAL APPLICATION

Aerial application may only be done by a registered aerial application operator using a registered and correctly calibrated aircraft according to the instructions of SANS Code 10118 (Aerial Application of Agricultural Remedies). It is important to ensure that the spray mixture is distributed evenly over the target area and that the loss of spray material during application is restricted to a minimum. It is therefore essential that the following criteria be met;

Equipment

- Use suitable atomising equipment (hydraulic nozzles or rotary atomisers) that will produce the desired droplet size and coverage of the target area and will ensure the minimum loss of product through drift.
- The operator must use a nozzle set-up that will produce a droplet spectrum with the lowest possible relative span.
- All nozzles and atomisers should be positioned within the inner 60 to 75% of the wingspan to prevent droplets from entering the wingtip vortices.

Application Parameters

- A minimum volume of 30 l spray mixture per ha is recommended. As this product has not been evaluated at a reduced volume rate, the registration holder cannot guarantee efficacy nor be held responsible for any adverse effects if this product is applied aerially at a lower volume rate than recommended.
- A droplet coverage of 30 – 40 droplets per cm² must be recovered at the target.
- A droplet spectrum with a VMD of 250 – 280 microns is recommended. Ensure that the production of fine droplets, with a VMD less than 150 microns, is restricted to a minimum.

- The height of the spray boom should be maintained at between 3 and 4m above the target.
- Do not spray when the aircraft is in a climb, at the top of a turn or during a dive or when banking.
- Apply before the crop becomes too dense, thus preventing proper coverage of the weeds.

Meteorological Conditions

- The difference between the wet and dry bulb readings as determined by a whirling hygrometer, must not exceed 8 °C.
- Do not spray under turbulent, unstable conditions nor during the heat of the day when rising thermals and downdraughts occur.
- Do not spray under temperature inversion conditions (spraying in or above the inversion layer).
- Do not spray when the wind speed exceeds 15 km per hour.

General

- Ensure that fields are accurately marked and that the aerial spray operator knows exactly which fields to spray.
- Obtain an assurance from the aerial spray operator that the above requirements will be met.

APPLICATION TABLE:

SITUATION	% CLAY	SENTAK SC (#/ha)	TIMING OF APPLICATION
Sugarcane (plant and ratoon cane: Pre- emergence)	6 – 20	3,6 – 4,3 OR 2,0 – 2,9 PLUS 2,0 l/ha Diuron 800 SC	Pre-emergence control of annual grasses, certain broadleaf weeds and yellow nutsedge. The higher rates should be used on heavier soils and/or where a longer residual action is required and/or for improved control of yellow nutsedge. Improved pre-emergence control of broadleaf weeds.
	21 – 35	4,3 OR 2,5 – 2,9 PLUS 2,0 l/ha Diuron 800 SC	The higher rates should be used on heavier soils (30 % clay) and also where a longer residual action is required and/or for improved yellow nutsedge control. The lower rates should be used on lighter soils.

SITUATION	% CLAY	SENTAK SC (#/ha)	TIMING OF APPLICATION
Sugarcane (plant and ratoon cane: Early post- emergence)	6 – 20	3,6 – 4,3 OR 2,0 – 2,9 PLUS 2,0 l/ha Diuron 800 SC OR 3,0 – 4,0 l/ha Bastion SC	Apply before grass weeds are in the 2 – 3 leaf stage. Apply the higher rate when <i>Cyperus esculentus</i> is present. If grass weeds are beyond the recommended growth stage then it is recommended to add Paragone SL to the Sentak SC /Diuron 800 SC or Sentak SC /Bastion SC spray mixture.
	21 – 35	4,3 OR 2,0 – 2,9 PLUS 2,0 l/ha Diuron 800 SC OR 3,0 – 4,0 l/ha Bastion SC	
Sugarcane (plant and ratoon cane: Early post- emergence)	6 – 35	Aerial Application: 3,6 PLUS 2,5 l/ha Diuron 800 SC	Apply in 30 – 50 l spray mixture /ha. Follow guidelines above for application as an early post-emergence spray.
Potatoes	0 – 10	Ground Application: 1,1 Aerial Application 1,5 OR 0,74 PLUS 5 l/ha Alachlor EC	Apply evenly to soil from immediately after planting until just before emergence of the potatoes. Where weeds have emerged before the Sentak SC could be applied, add 2 l/ha Paragone SL to the Sentak SC and apply before 5 % of the crop has emerged. For aerial application, apply in 30 – 50 l spray mixture /ha before the potatoes emerge.
	11 – 20	Ground Application: 1,5 Aerial Application: 1,8 OR 1,14 PLUS 5 l/ha Alachlor EC	

Potatoes (Continue)	21 – 35	Ground Application: 1,8 – 2,2 Aerial Application: 2,2 – 2,6 PLUS 5 ℓ/ha Alachlor EC to above rates of Sentak SC if needed	
Tomatoes	0 – 10	1,1 ℓ/ha	Apply uniformly to the soil surface. Weeds should not be taller than 3 – 5 cm, grasses should preferably not have emerged yet. Tomato plants should have taken root (at least 14 days after transplanting). Sentak SC should be applied as a directed spray between the rows of tomatoes.
	11 – 20	1,5 ℓ/ha	
	21 - 35	1,8 – 2,2 ℓ/ha	

BROADLEAF WEEDS CONTROLLED BY SENTAK SC:

Acalypha ecklonii
Acanthospermum hispidum
Ageratum conyzoides
Amaranthus deflexus
Amaranthus hybridus
Amaranthus spinosus
Amaranthus thunbergii
Ambrosia maritima
Anagallis arvensis
Anthemis cotula
Argemone mexicana
Bidens pilosa
Borreria natalensis
Capsella bursa-pastoris
Ceniza turbinata => *Cotula turbinata*
Chenopodium album
Chenopodium carinatum
Chenopodium murale
Cirsium vulgare
Cleome monophylla
Commelina benghalensis
Conyza canadensis
Datura ferox
Datura stramonium
Emex australis
Fumaria muralis
Galinsoga parviflora
Gnaphalium luteo-album
Hibiscus trionum
Leucas martinicensis
Nicandra physaloides
Physalis angulata
Polygonum aviculare
Portulaca oleracea
Raphanus raphanistrum
Richardia brasiliensis
Schkuhria pinnata
Siegesbeckia orientalis
Solanum retroflexum
Spergula arvensis
Stellaria media
Tagetes minuta
Tribulus terrestris
Urtica urens
Verbena bonariensis
Xanthium spinosum

Nettlebush
Upright starbur
Invading Ageratum = Billy goat weed
Perennial pigweed
Common pigweed
Thorny pigweed
Red pigweed
Sea Ambrosia
Pimpernel
Stink Mayweed = Dogweed
Yellow-flowered Mexican Poppy
Blackjack
Button weed
Shepherd's purse
Goose Daisy
White goosefoot
Green Goosefoot
Nettle-leaved goosefoot
Scotch thistle
Spindlepod
Bengal wandering Jew
Horseweed fleabane
Large thorn apple
Thorn apple
Spiny Emex
Fumitory
Gallant soldier
Jersey cudweed
Bladderweed
Bobbinweed
Apple of Peru
Wild gooseberry
Prostrate Knotweed = Hogweed
Purslane
Wild radish
Tropical Richardia
Dwarf marigold
Paul's wort
Nightshade
Corn spurry
Chickweed
Khaki weed
Devils Thorn = Dubbeltjie
Small stinging nettle
Purple top
Spiny cocklebur

GRASS WEEDS CONTROLLED BY SENTAK SC

<i>Digitaria sanguinalis</i>	Crab finger-grass
<i>Echinochloa crus-galli</i>	Barnyard grass
<i>Eleusine indica</i> => <i>Eleusine corocana</i>	Goose grass
<i>Eragrostis</i> spp.	Lovegrass
<i>Panicum coloratum</i>	Small Buffalo Grass = Coloured Guinea grass
* <i>Panicum maximum</i>	Ubabe = Guinea grass
<i>Panicum laevifolium</i> => <i>Panicum schinzii</i>	Sweet buffalo grass
<i>Setaria verticillata</i>	Sticky bristle grass
<i>Tragus racemosus</i>	Large carrotseed grass
* <i>Cyperus esculentus</i>	Yellow Nutsedge = Yellow Watergrass
* <i>Mariscus macer</i>	Monkey bulb

*Do not use less than 4,3 l/ha where these weeds are expected.

Variable control (pre-emergence)

<i>Cyperus esculentus</i>	Yellow Nutsedge = Yellow Watergrass
<i>Chenopodium album</i>	White goosefoot
<i>Cleome monophylla</i>	Spindlepod

NOTE:

The variable control of weeds mentioned directly above is dependent upon environmental conditions.

- Planting into a firm and fine seedbed must be preceded by a deep ploughing.
- Situations with high soil organic matter or excessive dead plant material on the soil surface may reduce the length of residual control obtained.
- Reduced residual control of shallower germinating weeds may occur where application of **Sentak SC** made on soils with low organic matter and/or clay content is followed by heavy rain or irrigation shortly after application.
- Degree of pre-emergence weed control and duration of effect may vary, depending on weed species, environmental conditions and soil conditions.

To increase the spectrum of broadleaf weeds controlled, it is recommended that either tank mixes or follow-up application of standard registered broadleaf herbicides are used in combination with **Acetak EC** or **Kestrel EC**, in accordance with the manufacturer's label recommendations.

The registration holder does not accept any liability in respect of the control of unlisted weeds.

PLAASKEM (PTY) LTD ACKNOWLEDGES THE FOLLOWING:

PRODUCT

Alachlor EC, Acetak EC

Bastion SC

TRADE NAMES OF

Meridian Agrochemical Company (Pty) Ltd

Tsunami Crop Protection (Pty) Ltd

2,4-D Amine 480 SL, Kestrel EC and **Paragone SL** are the registered tradenames of Nulandis (A division of AECI® Limited)

