



BUZZIN 480 SC

Reg. No. L 9475, Act No. 36 of 1947 | Reg. Nr. L 9475, Wet Nr. 36 van 1947

Read the label before use
Keep out of reach of children and animals

A suspension concentrate herbicide for the pre-emergent and post-emergent control of certain grass and broadleaf weeds in crops as listed.

'n Suspensie konsentraat onkruidodder vir die voor- en na opkoms beheer van sekere grasse en breëblaaronkruid in gewasse soos gelys.

HERBICIDE GROUP CODE C 1

ACTIVE INGREDIENT

Metribuzin (triazinone) 480 g/ℓ

ONKRUIDDODER GROEPKODE C1

AKTIEWE BESTANDDEEL

Metribusien (triasinoon) 480 g/ℓ

Hazard Statements

Harmful if swallowed.

Causes serious eye damage.

Very toxic to aquatic life with long lasting effects

Precautionary Statements

Wash hands thoroughly after handling.

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



Danger

Manufactured for and registered by/Vervaardig vir en
geregistreer deur:

Sharda International Africa (PTY) LTD

Reg. No./Reg. Nr. 2010/002268/07

P. O. Box/Posbus 82021, Southdale, 2135

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UN3082/VN3082

BATCH NO.
LOT NR.

EXPIRY DATE
VERVAL DATUM

NET CONTENTS /
NETTO INHOUD

20 ℓ

WARNINGS

- Allow the follow minimum number of days between last application and harvest:
Lucerne: 25 days
Barley: 120 days
- Harmful if swallowed.
- Causes serious eye damage.
- Very toxic to aquatic life with long lasting effects
- Harmful if swallowed.
- Toxic to fish and aquatic organisms.
- Keep out of reach of children, uninformed persons and animals.
- Store in the original container in a cool place under lock and key, away from food, feed, fertiliser and seed.
- Re-entry interval: Do not enter the treated field until the spray deposit has dried unless wearing protective clothing.
- Aerial application: Notify all inhabitants in the immediate vicinity of the area to be sprayed and issue the necessary warnings. Do not spray over or allow drift to contaminate water or adjacent areas.

Although this herbicide 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 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 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

- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Avoid release to the environment.
- Wear eye protection/face protection
- IF SWALLOWED: Call a POISON CENTRE/doctor/... if you feel unwell.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Immediately call a POISON CENTER/doctor/...
- Rinse mouth.
- Store locked up.
- Dispose of contents/container by perforation and flatterring manner.
- Do not inhale spray mist.
- Wear protective clothing when handling the concentrate (face shield, rubber boots and gloves).
- Avoid contact with the skin and eyes.
- Wash skin with soap and water after use or in the case of accidental skin contact.
- Wash any contaminated clothing before re-use.
- Flush the eyes with clean water in the case of accidental eye contact.
- Prevent contamination of food, feedstuff, eating utensils and drinking water.
- Do not apply near desirable plants or trees (such as windbreaks, ornamental trees or shrubs, along roads) or on areas where their roots may extend or in locations where the chemical may be washed or moved into contact with their roots.
- Refer to 'USE RESTRICTIONS' for the waiting periods to be observed for specific follow-up crops.
- Over-application or any use not in accordance with the directions on this label may cause adverse effects in the crop concerned.
- Rinse the 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 disposing of the container by perforation and flattening. Never use the container for any other purpose.
- Clean the applicator thoroughly after use and dispose of the wash water where it will not contaminate crops, grazing, rivers or dams.

RELEVANT SUBSTANCES:

Components	%
Metribuzin	< 50
Monoethylene glycol	< 10
Alcohols, C12-16, ethoxylated	< 5

RESISTANCE WARNING:

- For resistance management "BUZZIN 480 SC" is a group code C1 herbicide. Any weed population may contain individuals naturally resistant to "BUZZIN 480 SC" and other group code C1 herbicides. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds may not be controlled by "BUZZIN 480 SC" or any other group code C1 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.

USE RESTRICTIONS:

- Due to the residual activity of "BUZZIN 480 SC", the following waiting periods (the period between the application of "BUZZIN 480 SC" and the planting of follow-up crops) should be observed to prevent damage to follow-up crops:

Potatoes, Sugar cane	(Nil)
Asparagus, Beetroot, Carrots, Maize, Soy beans, Tomatoes	6 months
Beans, Cole crops, Cucurbits, Lettuce, Onions, Peas, Strawberries, Tobacco, Wheat	12 months

- Before replanting to any other crop ensure that the soil is thoroughly ploughed (not less than 20 cm) and harrowed.
- Do not use poor quality or diseased seed, or seedlings, as damage can be incurred with product use.
- Avoid double spraying and excessive overlapping of spray swaths, because over-application, application at the incorrect growth stage, or any other use not in accordance with the directions on this label, may cause stunting of the crops and other adverse effects.
- a) **Barley:**
 - a) Do not apply "BUZZIN 480 SC" in a tank mixture with grass herbicides as efficacy on grasses will be reduced. Avoid the application of grass herbicides 7 days prior to, or after, the application of "BUZZIN 480 SC".
 - b) Leaf scorch may result if "BUZZIN 480 SC" is applied in tank mixtures with bromoxynil.
 - c) Variable control of *Emex australis* is likely where "BUZZIN 480 SC" is applied at or after the 2-leaf stage.
 - d) Yellowing of the leaves may occur after application, but this symptom will disappear without adversely affecting yield.
- b) **Lucerne:**
 - a) Apply only to established lucerne (at least one full growing season completed). Application should occur after cutting or grazing, prior to the start of active growth. Apply just before the weeds emerge.
 - b) Chlorosis of the lucerne plant may occur after application, but this symptom will disappear without adversely affecting yield.
 - c) Do not apply to plants grown in soil with a very high pH value (pH > 7), or with mineral deficiencies, or soil where waterlogging occurs. These factors will aggravate the chlorosis.
 - d) Only use the following cultivars: CUF 101, SA Standard and Granada.
- c) **Potatoes:**
 - a) Plants from seed of ≤ 60 g are more prone to damage.
 - b) Do not apply "BUZZIN 480 SC":
 - i. to winter-drawn potatoes, or in areas prone to untimely frost.
 - ii. during the months April to September.
 - c) Cold conditions following an early spring application may cause stunting of potatoes. Different potato cultivars will vary in their sensitivity to "BUZZIN 480 SC". The degree of damage depends on the cultivar ('Astrid', 'BP1', 'Earliest of All', 'Koo's Smit' and 'Late Harvest' are more susceptible).
 - d) Allow a period of at least 6 weeks from application to ridging.
- d) **Tomatoes:**
 - a) Stunting and leaf damage may occur if cold conditions follow the application of "BUZZIN 480 SC".

DIRECTIONS FOR USE: Use only as directed

COMPATIBILITY:

"BUZZIN 480 SC" is compatible with "Sharda Acetochlor 900 EC", "Sharda Ametryn 500 SC", "Sharda Dynamo 800 SC" and "Sharda Paraquat 200 SL". Always strictly adhere to the mixing instructions, and always read and follow the labels for this product as well as the products with which "BUZZIN 480 SC" is mixed. Water quality can affect compatibility. It is recommended that a compatibility test be carried out prior to use.

APPLICATION INSTRUCTIONS:

IMPORTANT:

Crop tolerance to "BUZZIN 480 SC" as well as the efficacy thereof may be affected by certain conditions. Consider the following before applying "BUZZIN 480 SC":

- Should a different crop be planted on land that has been treated with "BUZZIN 480 SC", refer to 'USE RESTRICTIONS' for information on the applicable waiting period.
- It is important to ensure that asparagus and tomato transplants have taken root before applying "BUZZIN 480 SC" so as to avoid adverse effects. With tomatoes, allow at least two days with good sunshine to pass before applying "BUZZIN 480 SC".
- Heavy rainfall after an application of "BUZZIN 480 SC" will cause leaching of the product and adversely affect efficacy. The efficacy of "BUZZIN 480 SC" will also be adversely affected by stubble (mulch) or plant residues covering the soil.

MIXING INSTRUCTIONS:

Half fill the spray tank with clean water. Add the required quantity of "BUZZIN 480 SC" to the spray tank. Fill the spray tank to the required volume with clean water while agitating. Continue with agitation during spraying to keep "BUZZIN 480 SC" in suspension. Tank mixtures must be sprayed out immediately and not allowed to stand in the spray tank overnight. All application equipment must be thoroughly flushed out at the end of the spraying operation.

Take the following steps when mixing "BUZZIN 480 SC" with another product:

- Make sure that the products are compatible in the water that will be used for spraying.
- Make a premix using the required amount of product with a little water, and then add it to the spray tank after the "BUZZIN 480 SC" spray mixture has been thoroughly mixed, and continue agitating the mixture.

APPLICATION INSTRUCTIONS (GENERAL):

1. For the best results, apply "BUZZIN 480 SC" to moist soil before weeds emerge, especially grasses, or at least when broadleaf weeds are not taller than 3 to 5 cm. Climatic conditions during the time of application should be optimal for weed growth. Depending on soil type, rainfall and the rate of application, "BUZZIN 480 SC" should control weeds for a period of 8 to 16 weeks.
2. Apply "BUZZIN 480 SC" with a tractor-mounted boom sprayer or knapsack sprayer (with Teejet-type flat fan nozzles), delivering 200 to 300 l spray solution per hectare.
3. For aerial application, apply "BUZZIN 480 SC" in 30 to 40 l spray solution per hectare, and maintain thorough agitation of the spray mixture.
4. Make sure that the application equipment is correctly calibrated and use clean water for the spray mixture. Maintain thorough agitation of the spray mixture.
5. For effective weed control, apply "BUZZIN 480 SC" evenly and uniformly over the area. Ensure that the soil is clod-free, moist (but not soggy) and of a fine texture.
6. The clay, silt and organic matter content of the soil determine soil type. Use the clay percentage of the soil to be sprayed to determine the required application rate of the product. Use the lower application rate on lighter soils.

AERIAL APPLICATION:

Aerial application of "BUZZIN 480 SC" may only be done by a registered Aerial Application Operator using a correctly calibrated, registered aircraft according to the instructions of SABS Code 10118 (Aerial Application of Agricultural Pesticides). 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:

- Volume: A spray mixture volume of 30 to 35 l per hectare is recommended. As this product has not been evaluated at a reduced volume rate, the registration holder cannot guarantee efficacy, or be held responsible for any adverse effects if this product is applied aerially at a lower volume rate than recommended above.
- Droplet coverage: 30 to 40 droplets per cm² must be recovered at the target area.
- Droplet size: A droplet spectrum with a VMD of 300 to 350 microns is recommended. Limit the production of fine droplets less than 150 microns (high drift and evaporation potential) to a minimum.
- Flying height: Maintain the height of the spray boom at 3 to 4 metres above the target. Do not spray when aircraft dives, is in a climb or when banking.
- Use suitable atomising equipment that will produce the desired droplet size and coverage, but which will ensure the minimum loss of product. The spraying system must produce a droplet spectrum with the lowest possible Relative Span.
- Position all the atomisers within the inner 60 to 75% of the wingspan to prevent droplets from entering the wingtip vortices.
- The difference in temperature between the wet and dry bulb thermometers, of a whirling hygrometer, should not exceed 8°C.
- Stop spraying if the wind speed exceeds 15 km/h.
- Stop spraying under turbulent, unstable and dry conditions during the heat of the day.
- Spraying under temperature inversion conditions (spraying in or above the inversion layer) and/or high humidity conditions (relative humidity 80% and above) may lead to the following:
 - reduced efficacy due to suspension and evaporation of small droplets in the air (inadequate coverage).
 - damage to other sensitive crops and/or non-target areas through drifting of the suspended spray cloud away from the target field.
- Ensure 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 and that relevant data will be compiled in a logbook and kept for future reference.

DOSAGE RATES:

CROP	SOIL CLAY %	DOSAGE RATE	REMARKS
ASPARAGUS	> 10 %	1,5 l per ha	Pre-emergent weed control: Annual grasses and broad-leaved weeds. For use on transplanted and established asparagus plants. Direct seeded crops must be at least one year old before treatment. Ensure that the product is applied as a full cover spray. Only for use in summer rainfall areas.
	< 10 %	-	Use is not recommended.
BARLEY	-	200 ml per ha	Post-emergent weed control: Annual broadleaved weeds and grasses. For use on barley at the 4-leaf stage by means of ground or aerial application. The control of <i>Emex australis</i> will require an application of the product at the 1-leaf stage. Also refer 'USE RESTRICTIONS'.
LUCERNE	0 – 10 % 11 – 20 % 21 – 35 %	1,1 l per ha 1,5 l per ha 1,8 – 2,2 l per ha	Pre-emergent weed control: Annual grasses and broad-leaved weeds. For use on established, dormant lucerne, before the emergence of weeds. Ensure that the product is applied as a full cover spray.
POTATOES	0 – 10 % 11 – 20 % 21 – 35 %	1,1 l per ha 1,5 l per ha 1,8 – 2,2 l per ha	Pre-emergent weed control: Annual broadleaved weeds and grasses. For use after the planting of the crop and before crop emergence. Note: Do not use this product on potatoes being produced in the Sandveld region of the Western Cape.
SUGAR CANE (Plant and Ratoon)	< 6 %	-	Use is not recommended.
	6 – 20 %	3,6 – 4,3 l per ha or 2,0 – 2,9 l/ha + 2,0 l "Sharda Diuron 800 SC" per ha	Pre-emergent weed control: Annual broadleaved weeds and grasses. For application after harvesting or planting. Ensure an even application to moist soil.
	21 – 35 %	4,3 l per ha or 2,5 – 2,9 l/ha + 2,0 l "Sharda Diuron 800 SC" per ha	Note: If <i>Cyperus esculentus</i> is present, use the higher recommended dosage rates. If <i>Megathyrsus maximus</i> (= <i>Panicum maximum</i>) is present, the product should be applied before, or just after the emergence of the weed (pre-emergence, or very early post-emergence).
	6 – 20 %	3,6 – 4,3 l per ha or 2,0 – 2,9 l/ha + 2,0 l "Sharda Diuron 800 SC" per ha or 2,0 – 2,9 l/ha + 3,0 – 4,0 l "Sharda Ametryn 500 SC" per ha	Post-emergent weed control: Annual broadleaved weeds and certain grasses. Grass weeds: Apply before the 2 to 3-leaf stage, especially with <i>M. maximus</i> (= <i>P. maximum</i>). Broadleaf weeds: Apply before the 4 to 6-leaf stage. Note: If <i>Cyperus esculentus</i> is present, use the higher recommended dosage rates.
	21 – 35 %	4,3 l per ha or 2,5 – 2,9 l/ha + 2,0 l "Sharda Diuron 800 SC" per ha or 2,0 – 2,9 l/ha + 3,0 – 4,0 l "Sharda Ametryn 500 SC" per ha	To enhance efficacy in plant sugar cane, especially when <i>M. maximus</i> (= <i>P. maximum</i>) is present or has developed past the 3-leaf stage (but is still in a stage prior to tillering), add "Sharda Paraquat 200 SL" as per the label recommendation to the "BUZZIN 480 SC" + "Sharda Diuron 800 SC" combination.
	6 – 35 %	3,6 l per ha + 2,5 l "Sharda Diuron 800 SC" per ha	Aerial application: Apply in 30 to 40 l spray mixture. Ensure uniform application and that thorough agitation of the spray mixture is maintained. Refer to the remarks above for post-emergent weed control .
TOMATOES	0 – 10 % 11 – 20 % 21 – ≥ 35 %	1,1 l per ha 1,5 l per ha 1,8 – 2,2 l per ha	Early post-emergent weed control: Annual grasses and broadleaved weeds. Apply at 14 days or more after the tomato plants have been transplanted and taken root. The weeds present at the time of application should not be taller than 3 to 5 cm, and the grasses should preferably be at emergence. Apply as a directed spray between the rows.

WEEDS CONTROLLED:

BROADLEAF WEEDS <i>Acacia mangium</i> <i>Acalypha ecklonii</i> <i>Acanthospermum hispidum</i> <i>Ageratum conyzoides</i> <i>Amaranthus deflexus</i> <i>Amaranthus hybridus</i> <i>Amaranthus spinosus</i> <i>Amaranthus thunbergii</i> <i>Amaranthus viridis</i> <i>Ambrosia maritima</i> <i>Anagallis arvensis</i> <i>Anthemis cotula</i> <i>Argemone mexicana</i> <i>Bidens pilosa</i> <i>Borreria natalensis</i> <i>Ceniza turbinata</i> <i>Capsella bursa-pastoris</i> <i>Chenopodium album</i> <i>Chenopodium carinatum</i> <i>Chenopodium murale</i> <i>Cirsium vulgare</i> <i>Cleome gynandra</i> <i>Cleome trionophylla</i> <i>Commelina benghalensis</i> <i>Conyza canadensis</i> <i>Datura ferax</i> <i>Datura stramonium</i> <i>Emex australis</i> <i>Fumaria muralis</i> <i>Euphorbia chamaesyce</i> <i>Euphorbia heterophylla</i> <i>Galinsoga parviflora</i> <i>Gnaphalium luteo-album</i> <i>Hibiscus trionum</i> <i>Ipomoea purpurea</i> <i>Leucas martinicensis</i> <i>Nicandra physalodes</i> <i>Parthenium hysterophorus</i> <i>Physalis angulata</i> <i>Polygonum aviculare</i> <i>Portulaca oleraceae</i> <i>Raphanus raphanistrum</i> <i>Richardia brasiliensis</i> <i>Schkuhria pinnata</i> <i>Senecio polyanthemoides</i> <i>Sesgesbeckia orientalis</i> <i>Sisymbrium thellungi</i>	<i>Black wattle</i> <i>Acalypha</i> <i>Upright starbur</i> <i>Invading ageratum</i> <i>Perennial pigweed</i> <i>Cape pigweed</i> <i>Thorny pigweed</i> <i>Red pigweed</i> <i>Slender amaranthus</i> <i>Ragweed</i> <i>Blue pimpernel/Scarlet pimpernel</i> <i>Stinking mayweed</i> <i>Yellow-flowered Mexican poppy</i> <i>Blackjack</i> <i>Lettorweed</i> <i>Goose daisy</i> <i>Shepherd's purse</i> <i>White goosefoot</i> <i>Green goosefoot</i> <i>Nettle-leaved goosefoot</i> <i>Spear thistle/Scotch thistle</i> <i>Sider-wisp</i> <i>Sisymbrium</i> <i>Benghal wandering Jew</i> <i>Canadian fleabane / Horseweed</i> <i>feabane</i> <i>Large thorn apple</i> <i>Common thorn apple</i> <i>Spiny emex</i> <i>Fumitory</i> <i>Hairy creeping milkweed</i> <i>Painted milkweed</i> <i>Gallant soldier</i> <i>Jersey cudweed</i> <i>Bladderweed</i> <i>Common morning glory</i> <i>Bobbins</i> <i>Apple-of-Peru</i> <i>Domonia weed (Feverfew)</i> <i>Wild gooseberry</i> <i>Prostrate knotweed</i> <i>Purslane</i> <i>Wild radish</i> <i>Tropical rchardia</i> <i>Dwarf marnold</i> <i>Ragwort</i> <i>Common St Paul's Wort</i> <i>Common wild mustard</i>	<i>Solanum retroflexum</i> <i>Spergularia arvensis</i> <i>Stellaria media</i> <i>Tagetes minuta</i> <i>Tribulus terrestris</i> <i>Urtica urens</i> <i>Verbena bonariensis</i> <i>Xanthium spinosum</i> <i>Xanthium strumarium</i> GRASS WEEDS <i>Chloris virgata</i> <i>Digitaria sanguinalis</i> <i>Echinochloa crus-gali</i> <i>Ehrharta brevifolia</i> <i>Eleusine coracana</i> <i>Eleusine indica</i> <i>Eragrostis species</i> <i>Megathyrsus maximus</i> (= <i>Panicum maximum</i>) <i>Panicum coloratum</i> <i>Panicum schinzii</i> <i>Paspalum dilatatum</i> <i>Paspalum distichum</i> <i>Setaria spheacelata</i> <i>Setaria verticillata</i> <i>Tragus racemosus</i> <i>Urochloa panicoides</i> <i>Cyperus esculentus*</i> <i>Manisuris mace*</i>	<i>Black nightshade</i> <i>Corn spurry</i> <i>Chickweed</i> <i>Khaki weed</i> <i>Dubbeljie</i> <i>Small stinging nettle</i> <i>Purple top</i> <i>Spiny cocklebur</i> <i>Cocklebur</i> <i>Feathered chloris / Feathertop</i> <i>chions</i> <i>Crab fingergrass</i> <i>Barleygrass</i> <i>Veld grass</i> <i>Goose grass</i> <i>Goose grass</i> <i>Love grass species</i> <i>Guinea grass/ Common buffalo grass</i> (= <i>Panicum maximum</i>) <i>Small buffalo grass</i> <i>Sweet buffalo grass</i> <i>Common paspalum</i> <i>Couch paspalum</i> <i>Golden setaria</i> <i>Bur bristle grass/Sticky bristle grass</i> <i>Large carotseed grass</i> <i>Garden urochloa (Annual signalgrass) / Herringbone grass</i> <i>Yellow nutsedge</i>
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NOTES: *Application rate required for sufficient control: 4,3 l "BUZZIN 480 SC" per ha.

Although "BUZZIN 480 SC" may control other annual broadleaf weeds and grasses that were not present during the experimental efficacy trials carried out using this product, the registration holder does not accept responsibility for any weeds not listed on this label.

The following herbicides are registered by Sharda International Africa (PTY) Ltd. (Act No. 36 of 1947):
"Sharda Acetochlor 90 EC" - Reg. No 9660
"Sharda Ametryn 500 SC" - Reg. No 9967
"Dynamo 800 SC" - Reg. No 9619
"Sharda Paraquat 200 SL" - Reg. No 9432