



BUZZIN 480 SC

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

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

Registered by | Geregistreer deur

Sharda International Africa (PTY) LTD

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

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ONKRUIDDODER GROEPKODE C1

AKTIEWE BESTANDDEEL

Metribusien (triasinoon) 480 g/l

BATCH NO.
LOT NR.

EXPIRY DATE
VERVAL DATUM

NET CONTENTS /
NETTO INHOUD

5 l

UN3082/VN3082

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CAUTION
VERSIGTIG



WARNINGS

- Allow the follow minimum number of days between last application and harvest:
 - Lucerne: 25 days
 - Barley: 120 days
- 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

- 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.
- Do not eat, drink or smoke while mixing or applying or before washing hands and face and change of clothing.
- Prevent contamination of food, feedstuffs and drinking water.
- Prevent the drift of spray mist onto other crops, grazing, rivers, dams or areas not under treatment.
- 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.

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.
- Barley:**
 - 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".
 - Leaf scorch may result if "BUZZIN 480 SC" is applied in tank mixtures with bromoxynil.
 - Variable control of *Emex australis* is likely where "BUZZIN 480 SC" is applied at or after the 2-leaf stage.
 - Yellowing of the leaves may occur after application, but this symptom will disappear without adversely affecting yield.
- Lucerne:**
 - 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.
 - Chlorosis of the lucerne plant may occur after application, but this symptom will disappear without adversely affecting yield.
 - 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.
 - Only use the following cultivars: CUF 101, SA Standard and Granada.
- Potatoes:**
 - Plants from seed of ≤ 60 g are more prone to damage.
 - Do not apply "BUZZIN 480 SC":
 - to winter-grown potatoes, or in areas prone to untimely frost.
 - during the months April to September.
 - 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', 'Kooos Smi' and 'Late Harvest' are more susceptible).
 - Allow a period of at least 6 weeks from application to ridging.
- Tomatoes:**
 - 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 Diuron 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):

- 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 around 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.
- 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.
- For aerial application, apply "BUZZIN 480 SC" in 30 to 40 l spray solution per hectare, and maintain thorough agitation of the spray mixture.
- Make sure that the application equipment is correctly calibrated and use clean water for the spray mixture. Maintain thorough agitation of the spray mixture.
- 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.
- 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 %	1,1 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.
	11 – 20 %	1,5 l per ha	
	21 – 35 %	1,8 – 2,2 l per ha	
POTATOES	0 – 10 %	1,1 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.
	11 – 20 %	1,5 l per ha	
	21 – 35 %	1,8 – 2,2 l per ha	
SUGAR CANE (Plant and Ratoon)	< 6 %	-	Use is not recommended.
	6 – 20 %	3,6 – 4,3 l per ha or 2,0 – 2,9 t/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. Note: If <i>Cyperus esculentus</i> is present, use the higher recommended dosage rates. If <i>Megalithus 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).
		21 – 35 %	
	6 – 20 %	3,6 – 4,3 l per ha or 2,0 – 2,9 t/ha + 2,0 l "Sharda Diuron 800 SC" per ha or 2,0 – 2,9 t/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. maximum</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 %	
	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 .
2,5 l "Sharda Diuron 800 SC" per ha			
TOMATOES	0 – 10 %	1,1 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.
	11 – 20 %	1,5 l per ha	
	21 – ≥ 35 %	1,8 – 2,2 l per ha	

WEEDS CONTROLLED:**BROADLEAF WEEDS**

Black wattle
Acalypha
Acalypha ecklonii
Acarthospermum hispidum
Ageratum conyzoides
Amaranthus deflexus
Amaranthus hybridus
Amaranthus spinosus
Amaranthus thunbergii
Amaranthus viridis
Ambrosia maritima
Anagallis arvensis
Anthemis cotula
Argemone mexicana
Bidens pilosa
Borreria natalensis
Ceniza turbinata
Capsella bursa-pastoris
Chenopodium album
Chenopodium carolinatum
Chenopodium murale
Cirsium vulgare
Cleome gynandra
Cleome monophylla
Commelina benghalensis
Conyza canadensis

Datura ferox
Datura stramonium
Emex australis
Fumaria muralis
Euphorbia chamaesyce
Euphorbia heterophylla
Gallinsoga parviflora
Gnaphalium luteo-album
Hibiscus tiliifolius
Ipomoea purpurea
Leucas maritima
Nicandra physaloides
Parthenium hysterophorus
Physalis angulata
Physalis peruviana
Portulaca oleraceae
Raphanus raphanistrum
Richardia brasiliensis
Schukhria pinnata
Senecio polyanthemoides
Segetesbeckia orientalis
Sisymbrium thellungi

Solanum retroflexum
Spergularia arvensis
Stellaria media
Tagetes minuta
Tribulus terrestris
Urtica urens
Verberna bonariensis
Xanthium spinosum
Xanthium strumarium

GRASS WEEDS

Chloris virgata
Digitaria sanguinalis
Echinochloa crus-galli
Ehrharta brevifolia
Elymus coracana
Elymus indica
Eragrostis species
Megalithus maximus
(= *Panicum maximum*)
Panicum coloratum
Panicum chinzi
Paspalum dilatatum
Paspalum distichum
Setaria sphacelata
Setaria verticillata
Trausa racemosa
Urochloa panicoides
Cyperus esculentus
Manisuris maer

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 cc (Act No. 36 of 1947):
"Sharda Acetochlor 900 EC" – Reg. No. LXXXX
"Sharda Ametryn 500 SC" – Reg. No. LXXXX
"Sharda Diuron 800 SC" – Reg. No. LXXXX
"Sharda Paraquat 200 SL" – Reg. No. L 9432

