



SHARMIN 720 SL

Reg. No. L9672, Act No. 36 of 1947 | Reg. Nr. L9672, Wet Nr. 36 van 1947

A selective soluble concentrate herbicide for the control of certain broadleaf weeds in crops, lawns and grass pastures as listed.

HERBICIDE GROUP CODE O

ACTIVE INGREDIENT:

2,4-D (phenoxy compound) 720 g/l
(as dimethylamine salt)

Manufactured for and Registered by | Vervaardig
vir en Geregistreer deur:

Sharda International Africa (PTY) LTD

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

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'n Selektiewe wateroplosbare onkruid-
doder vir die beheer van sekere breë-
blaaronkruid in gewasse, grasperke
en grasweidings soos aangedui.

ONKRUIDDODER GROEPKODE O

AKTIEWE BESTANDDEEL:

2,4-D (fenoksieverbinding) 720 g/l
(as dimetielamiensout)

BATCH NO. LOT NR.	
EXPIRY DATE VERVAL DATUM	

NET CONTENTS /
NETTO INHOUD

5 l

UN No./VN Nr. 3082

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HARMFUL
SKADELIK



WARNINGS

- Handle with care.
- Harmful if swallowed, inhaled or in the case of skin contact.
- Toxic to fish.
- 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.
- In case of poisoning, call a physician and make this label available to him/her.
- Allow a minimum of 7 days between last application and grazing/feeding.
- **Re-entry interval:** Do not enter treated area within 1 day after treatment 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 fumes or 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.
- Do not eat, drink or smoke while mixing or applying or before washing hands and face and change of clothing.
- Prevent contamination of food, feedstuff, eating utensils and drinking water.
- Prevent the drift of spray mist onto other crops, grazing, rivers, dams or areas not under treatment.
- Prevent spray drift onto susceptible crops or crops in a susceptible stage of growth, and do not apply to areas adjacent to these susceptible crops. For areas in the vicinity of these susceptible crops, the product may be applied provided measures are taken to avoid spray drift. This will be necessary to prevent damage to sensitive broadleaf crops, fruit trees and ornamental plants.
- Apply this product strictly in accordance with the application directions.
- 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 using a 1 % household ammonia solution after use. Allow the solution to stand for several hours before rinsing at least twice with clean water. The solution and the water must be disposed of where it will not contaminate food, crops, grazing, rivers or dams. This applicator should be reserved for the application of herbicides only.

SYMPTOMS OF HUMAN POISONING

Exposure may cause nausea, vomiting, dizziness, temporary loss of vision, abdominal pain, diarrhoea, headache, hypotension, confusion, aggression, bizarre behaviour, muscle twitching, muscle weakness, loss of muscle coordination, muscle stiffness, loss of tendon reflexes, coughing or burning sensations in the upper respiratory tract and chest. Some of these symptoms may persist for a length of time or even be permanent.

FIRST AID

Eye contact: Flush eyes with plenty of clean water, occasionally lifting upper and lower eye lids, for at least 15 minutes. Check for, and remove if present, any contact lenses after the first 5 minutes of flushing. Get medical attention.

Skin contact: Remove all contaminated clothing and leather items. Wash the skin thoroughly with soap and rinse the skin with large quantities of clean water. Wash any contaminated clothing before reuse.

Inhalation: Remove patient to fresh air. Get medical attention should any symptoms develop or persist.

Ingestion: If swallowed, immediately give a large amount of water to drink. Rinse the mouth with clean water. If vomiting occurs, administer more water. Never give anything by mouth to an unconscious person. Get medical attention.

NOTE TO PHYSICIAN: There is no specific antidote. Treat symptomatically and supportively. If large quantities have been ingested, gastric lavage may be considered as well as the administering of activated charcoal.

RESISTANCE WARNING:

For resistance management "SHARMIN 720 SL" is a group code O herbicide. Any weed population may contain individuals naturally resistant to "SHARMIN 720 SL" and other group code O herbicides. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds may not be controlled by "SHARMIN 720 SL" or any other group code O 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:

- Do not apply near or on broadleaf crops.
- Do not apply this product by means of aerial application in KwaZulu-Natal.
- Do not apply to crops under stress (heat, drought, cold, waterlogging, nutrient deficiencies).
- Take wind speed and wind direction into consideration when this product is applied. These factors will determine the distance which is to separate the closest edge of the area to be sprayed from susceptible crops.

WINDSPEED (KM/H)	AERIAL APPLICATION	GROUND APPLICATION
1.5 km – 5 km	800 m downwind 800 m crosswind 15 m upwind	200 m downwind 200 m crosswind 6 m upwind
5 km – 10 km	1.6 km downwind 800 m crosswind 15 m upwind	400 m downwind 200 m crosswind 1.5 m upwind
10 km – 15 km	3.2 km downwind 800 m crosswind 15 m upwind	800 m downwind 400 m crosswind 1.5 m upwind
Above 15 km	PROHIBITED	PROHIBITED

DIRECTIONS FOR USE: Use only as directed.

COMPATIBILITY:

"SHARMIN 720 SL" is compatible with "BUZZIN 480 SC", "SHARDA AMETRYN 500 SC" and "DYNAMO 800 SC". Always strictly adhere to the mixing instructions, and always read and follow this label and the label for the product with which "SHARMIN 720 SL" is mixed. Water quality can affect compatibility. It is recommended that a compatibility test be carried out prior to use.

MIXING AND APPLICATION:

Mixing Instructions

Half fill the spray tank with water, add the required amount of "SHARMIN 720 SL", and then fill the spray tank to the desired volume. When spraying a tank mix, add "SHARMIN 720 SL" to the spray tank first followed by the tank mix product. Ensure agitation of the spray mixture during mixing and spraying.

Aerial Application

Do not apply this product by means of aerial application in KwaZulu-Natal.

Aerial application of "SHARMIN 720 SL" may only be done by a registered Aerial Application Operator using a correctly calibrated, registered aircraft according to the instructions of SANS 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.

Ground Application

- Avoid fine droplet size. The use of low pressure flat fan nozzles of 80° is recommended (or equivalent anti-drift type), and do not exceed a spray pressure of 200 kPa. Do not exceed a spray volume of 150 l/ha.
- Do not exceed a ground speed of 10 km/h, and do not spray from a height of more than 50 cm above target.
- Do not apply if the wind velocity exceeds 15 km/h.
- The difference between the wet and dry bulb readings on a whirling hygrometer must not exceed 8°C.

Pre-Emergence Application:

It is important to plant the crop to a well-tilled, moist and clod-free seedbed to ensure a high percentage weed germination immediately after planting. Do not apply under cold conditions, with or without frost. For the control of annual grass weeds, apply "SHARMIN 720 SL" before the grasses emerge. The duration of weed control is expected to last from 3 weeks up to 6 weeks.

Post-Emergence Application:

Spray only when the crop is in a suitable stage of development (refer to the APPLICATION TABLE) and the soil is moist. Applying "SHARMIN 720 SL" when the weeds are still in the early stages of development (2 to 4 leaf stage) will ensure best results. The higher dosage rates will be required as the weeds mature, however do not exceed the maximum dosage rate as recommended in the APPLICATION TABLE. Also use the higher rate for scenarios where the weed infestation is severe.

APPLICATION TABLE:

CROP	DOSAGE t/ha	REMARKS
Barley, Rye	1.0 – 1.75 t/ha	Post-emergence: Apply when the crop is in the five leaf stage.
Grain sorghum	1.25 t/ha	Post-emergence: Apply when the crop is 15 cm to 25 cm tall as an inter-row directed spray.
Grass pastures (established pastures)	2.25 – 3.0 t/ha	Post-emergence: Apply nitrogenous fertilizer 2 to 3 weeks before the application of "SHARMIN 720 SL".
Maize	0 – 10 % clay	Pre-emergence: Apply 5 to 6 days after planting to a seedbed that is sufficiently moist and in good tilth.
	11 – 20 % clay	
	21 – 35 % clay	
	> 35 % clay	
	1.25 t/ha	Post-emergence: Apply when the crop is 30 cm to 45 cm tall. Drop arms must be used for directed inter-row spraying. Avoid spray landing in the tunnel. <i>Striga asiatica</i> should be sprayed when flowers are first seen.
Lawns (established lawns)	2.25 – 3.0 t/ha	Post-emergence: Apply nitrogenous fertilizer 2 to 3 weeks before the application of "SHARMIN 720 SL".
Potatoes	0 – 20 % clay	Pre-emergence: If the crop was dry planted, harrow immediately after the first rain and apply.
	21 – 35 % clay	
	> 35 % clay	
Sugarcane (plant and ratoon)	3.5 – 4.75 t/ha	Use of "SHARMIN 720 SL" only Pre-emergence: (plant and ratoon) Apply before the weeds emerge. Post-emergence: Apply when the weeds are still in the early stages of development as a directed inter-row spray.
Wheat	1.0 – 1.75 t/ha	Post-emergence: Apply between growth stages 7 (centre double ridges enlarged) and 13 (awn of the top spikelets elongated), according to the list of growth stages of the ARC-Small Grain Institute, Bethlehem.

WEEDS CONTROLLED

Blue weed/Billygoat weed	<i>Ageratum conyzoides</i>
Cape pigweed	<i>Amaranthus hybridus</i>
Free State daisy	<i>Arctotis venusta</i>
Common blackjack	<i>Bidens pilosa</i>
White goosefoot	<i>Chenopodium album</i>
White goosefoot	<i>Chenopodium carinatum</i>
Spindlepod	<i>Cleome monophylla</i>
Wandering Jew	<i>Commelina benghalensis</i>
Large thorn apple	<i>Datura ferrox</i>
Thorn apple	<i>Datura stramonium</i>
Painted milkweed	<i>Euphorbia heterophylla</i>

Small flowered quickweed	<i>Galinosa parviflora</i>
Common purslane	<i>Portulaca oleracea</i>
Wild radish	<i>Raphanus raphanistrum</i>
Mexican Richardia	<i>Richardia brasiliensis</i>
Starvation senecio	<i>Senecio consanguineus</i>
	<i>Sisymbrium orientale</i>
Witch weed	<i>Striga asiatica</i>
Khakiweed	<i>Tagetes minuta</i>
Vetch	<i>Vicia sativa</i>
Spiny cocklebur	<i>Xanthium spinosum</i>
Cocklebur	<i>Xanthium strumarium</i>

The following herbicides are registered by Sharda International Africa (Pty) Ltd:
 "BUZZIN 480 SC" – Reg. No. L9967, Act No. 36 of 1947
 "DYNAMO 800 SC" – Reg. No. L9619, Act No. 36 of 1947
 "SHARDA AMETRYN 500 SC" – Reg. No. LXXXX, Act No. 36 of 1947

