

BEFORE USING THIS PRODUCT, READ THE LABEL CAREFULLY. KEEP OUT OF REACH OF CHILDREN AND ANIMALS.



Herbicide

SKOFFEL® DUO 200 SL

Reg. No. L 9063 Act No. 36 of 1947

3: 7/7/2022 – May 2023

A water-soluble herbicide for the control of annual grasses and broadleaf weeds in crops as listed. Inactivated on contact with soil.

ACTIVE INGREDIENTS

paraquat (bipyridyl)	120 g/l
(as dichloride salt)	(165.6 g/l)
diquat (bipyridyl)	80 g/l
(as dibromide salt)	(149 g/l)

GROUP	22	HERBICIDE
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DANGER

Hazard Statements:

Harmful if swallowed.
 Fatal if inhaled.
 May be harmful to contact with skin.
 Causes skin irritation.
 Causes serious eye irritation.
 May cause an allergic skin reaction.
 May cause respiratory irritation.
 Causes damage to organs through prolonged or repeated exposure.

Very toxic to aquatic life.
 Very toxic to aquatic life with long lasting effects.

Precautionary Statements:

Avoid release to the environment.
 Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.



UN Number: 3016

Registration holder: VILLA CROP PROTECTION (PTY) LTD.
 Co. Reg. No. 1992/002474/07
 P.O. Box 10413, Aston Manor, 1630
 Tel. (011) 396 2233
 Website: www.villacrop.co.za

24 HR EMERGENCY NUMBERS:
 Griffon Poison Centre: +27 82 446 8946
 24 HR Transport / Spill Emergency no: (Hazcall24) +27 86 044 4411
 (Client: Villa Crop Protection)

REFER TO DETAILS AS PRINTED ON CONTAINER / BAG

DIRECTIONS FOR USE ENCLOSED
 Batch Number:
 Date of Manufacture:

SKOFFEL® DUO 200 SL

Reg. No. L 9063 Act No. 36 of 1947

HRAC HERBICIDE GROUP CODE: 22

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WARNINGS**Hazard statements:**

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Fatal if inhaled.
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May cause respiratory irritation.
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Very toxic to aquatic life.
Very toxic to aquatic life with long lasting effects.

- Handle with extreme care.
- Toxic to fish, bees and wildlife.
- Store under lock and key in a cool place, away from food, feeds, seed, fertilizers and other agricultural remedies.
- **SKOFFEL® DUO 200 SL** can kill if swallowed or inhaled - never repack from this container.
- Keep out of reach of children, uninformed persons and animals.
- Re-entry: Do not enter treated area within two (2) days after treatment unless wearing protective clothing.
- **Keep livestock out of treated areas for three (3) weeks.**
- **In case of poisoning call a doctor and make this label available to him/her.**

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 further 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 event of any uncertainty.

PRECAUTIONS**Precautionary statements:**

Do not breathe dust, fume, gas, mist, vapours, or spray.
Avoid breathing dust, fumes, mists, gas, vapours or spray.
Wash hands and face thoroughly after handling. Do not touch eyes.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing should not be allowed out of the workplace.
Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.
In case of inadequate ventilation wear respiratory protection.
Take off contaminated clothing and wash it before reuse.
Wash hands and face thoroughly after handling.
Avoid release into the environment.
Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.
IF SWALLOWED: Get medical help.
IF ON SKIN: Get medical help.
IF ON SKIN: Wash with plenty of water and non-abrasive soap.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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.
Get emergency medical help immediately.
Get medical help if you feel unwell.
If skin irritation occurs: get medical help
If skin irritation or rash occurs: Get medical help.
If eye irritation persists: Get medical help.
Take off contaminated clothing and wash it before reuse.
Collect spillage.
Store in a well-ventilated place. Keep container tightly closed.
Dispose of content/container in accordance with local regulations.

- Prevent drift onto other crops, grazing, rivers, dams and areas not under treatment or to nearby water sources.
- Thoroughly clean the applicator directly after use and dispose of wash water where it will not contaminate food, grazing, boreholes, rivers or dams.
- **TRIPLE RINSE THE EMPTY CONTAINER AS FOLLOWS:** 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.
- Prevent contamination of food, feeds, drinking water and eating utensils.

SYMPTOMS OF HUMAN POISONING

Immediate effects depend on the dose absorbed into the blood and effects may be delayed. Ingestion of small quantities may cause harm and larger quantities may lead to death. Damaged skin will lead to increased absorption rates.

Early signs of poisoning are vomiting and painful mucous membranes in mouth and throat. In severe cases diarrhoea follows and kidney and liver damage may develop 1 to 3 days after exposure. Lung damage can be observed after about 3 days and may lead to death. The concentrate can lead to serious eye damage, sometimes delayed up to 24 hours. Exposure to spray mist may cause nose bleeding and soreness of mouth and throat.

Relevant hazardous components	
Paraquat dichloride	120 g/l
Diquat dibromide	80 g/l

FIRST AID TREATMENT

- Remove the patient from the source of poisoning and keep him/her calm and at rest.

- **Inhalation:** Remove the patient from exposure area to fresh air immediately. Keep affected person calm and reassured. Get medical attention immediately. **Do NOT administer supplementary oxygen.**
- **Skin contact:** Immediately remove contaminated clothing, shoes and leather goods (e.g. watch bands and belts). Wash the contaminated skin gently and thoroughly with non-abrasive soap and water. Do not rub the skin. Damaged skin will lead to increased absorption rates. Emergency personnel should wear gloves and avoid contamination. **If irritation persists, get medical attention immediately.**
- **Eye contact:** Immediately flush eyes with lukewarm, gently flowing water for at least 20 minutes or until the product is removed, while holding the eyelid(s) open. Take care not to rinse contaminated water into the unaffected eye or onto the face. If irritation, redness or burning sensations develop, **get medical attention immediately.**
- **Ingestion:** **Do not** induce vomiting. Wash mouth with water and give water to drink. **Seek medical advice immediately.**

NOTE TO PHYSICIAN

Rapid treatment is essential. **Induce vomiting if the person hasn't vomit as expected.** Wash out the stomach and test urine and gastric aspirate (if clear) for presence of **Paraquat**. Give up to 1 litre of a 15 % aqueous suspension of Fuller's Earth, orally or via gastric tube, together with suitable purgative (200 ml of an aqueous solution of mannitol). Repeat the administration of the absorbent plus purgative until absorbent is seen in stools. This should normally take between 4 to 6 hours after start of treatment.

Do NOT administer supplementary OXYGEN.

Mode of Action: Paraquat dichloride: Non-selective, contact herbicide, absorbed by foliage, limited translocation in the xylem. **Diquat dibromide:** Non-selective, contact herbicide and desiccant, absorbed by the foliage, with some translocation in the xylem.

RESISTANCE WARNING

SKOFFEL® DUO 200 SL is a group code 22 herbicide. Any weed population may contain individuals naturally resistant to **SKOFFEL® DUO 200 SL** and other group code 22 herbicides. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds may not be controlled by **SKOFFEL® DUO 200 SL** or any other group code 22 herbicide.

To delay herbicide resistance:

- avoid exclusive repeated use of herbicides from the same herbicide group code. Alternate or tank mix with 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 use application equipment or spray pressures which result in the formation of a fine spray mist such as, mistblowers, ULV applicators and other similar equipment.
- Do not use muddy water.
- Avoid drift onto adjacent crops as green plant tissue will be damaged by the spray. **Do not spray buds or green parts of any crop.**

DIRECTIONS FOR USE: Use only as directed.

General information:

- **SKOFFEL® DUO 200 SL** controls most annual grasses and emerged broadleaf weeds.
- **SKOFFEL® DUO 200 SL** has no residual action as it is inactivated rapidly on contact with soil.
- **SKOFFEL® DUO 200 SL** scorches and controls the green plant parts above soil of most annual weeds. Regrowth often happens due to regrowth of sub-soil plant structures (e.g., stolons or bulbs).

Compatibility:

- **SKOFFEL® DUO 200 SL** is compatible with **Summit Super/Benefit Plus** and **METRICANE 700 WDG** (L 8060).
- The compatibility of **SKOFFEL® DUO 200 SL** may be influenced by several factors. As factors influencing compatibility may vary, a physical compatibility test must always be performed before such tank mixture is sprayed.
- If **SKOFFEL® DUO 200 SL** needs to be used in tank mixture combinations with other herbicides, first mix small quantities of the chemicals in the same ratio in which they will be used, separately with water. Add these mixtures together while agitating and check for any signs of incompatibility e.g., flocculation, etc.

- When **SKOFFEL® DUO 200 SL** is used in conjunction with any other agricultural remedy, adhere to all **WARNINGS, PRECAUTIONS** and **DIRECTIONS FOR USE** mentioned on that label.

Mixing instructions:

- Mix the required amount of **SKOFFEL® DUO 200 SL** with clean water in the spray tank.
- For optimal performance add an adjuvant such as **Summit Super** at the registered rate.

Application instructions:

Ground application:

- **SKOFFEL® DUO 200 SL** can be applied with conventional tractor spray equipment or by means of a knapsack sprayer. It is important that the sprayer will be in good working order and calibrated prior to application, to ensure the correct delivery rate per hectare and that even distribution of the spray mixture is obtained over the target area.
- Use a spray boom fitted with flat-fan nozzles.
- Apply in at least 200 litres water per hectare. Use high volume and high dose rate for treatment of dense weed growth situations.

Aerial application: (for seedbed preparation only)

Aerial application of **SKOFFEL® DUO 200 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:

- **The use of a suitable drift retardant adjuvant and/or low drift nozzles (e.g., straight stream nozzles) is recommended. In the case of fixed-wing aircraft flying at a speed faster than 130 mph, the maximum deflection angle of the nozzles or spray stream, as measured from a horizontal straight backwards orientation, may not exceed 30 degrees. In the case of slower flying fixed wing aircraft the maximum deflection angle, as described above, may not exceed 55 degrees.**
- Volume: A spray mixture volume of 35 to 45 litres 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 aurally at a lower volume rate than recommended above.
- Droplet coverage: 35 to 40 droplets per cm² must be recovered at the target area.
- Droplet size: A droplet spectrum with a VMD of 350 to 400 micron is recommended. Limit the production of fine droplets less than 150 micron (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 per hour.
- 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:
 - a) reduced efficacy due to suspension and evaporation of small droplets in the air (inadequate coverage),
 - b) 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.

APPLICATION RATES**IMPORTANT**

Refer to **USE RESTRICTIONS** above and **NOTES ON WEED CONTROL** below.

NOTE

- If applied by means of knapsack or hand-held sprayers, mix **SKOFFEL® DUO 200 SL** in a ratio of 1 part to 40 parts (minimum) water.

Crop	Dosage per ha	Remarks
ORCHARDS Vineyards, Apples, Pears, Apricots, Plums and Peaches	2.0 to 5.0 ℓ in 200 to 750 litres water per hectare	Overall application before bud burst and thereafter as a directed spray. This will also control Cape daisy / Gousblom (<i>Arctotheca calendula</i>) if present at time of application.
ROW / FIELD CROPS Add Summit Super at 0.3 % of the spray solution (i.e., 300 ml in 100 litres spray mixture).		
Wheat, Barley, Oats and Rye	As an alternative to mechanical weed control cultivations in the pre-plant stage of crops. Apply to young actively growing weeds. The dosage of SKOFFEL® DUO 200 SL and spray volume is dependent on the type of weed and density.	
	1.0 to 2.0 ℓ in 150 to 300 litres water OR	<u>Ground application:</u> Refer to “ Ground application instructions ” above. Weeds in the 2 to 4 leaf stage.
	2.0 to 4.0 ℓ in 200 to 500 litres water OR	Weeds bigger than the 4-leaf stage.
	2.0 to 4.0 ℓ in 30 litres water	<u>Aerial application (for seedbed preparation only):</u> Refer to “ Aerial application instructions ” above. Add Summit Super at 0.3 % of the spray solution (i.e., 300 ml in 100 litres spray mixture).
Lucerne	2.5 ℓ PLUS 0.75 kg Metricane 700 WDG PLUS 0.1% Summit Super	Apply in Lucerne older than 6 months just before dormancy breaks or immediately after harvesting, before re-growth of Lucerne occurs. Apply in at least 200 litres water per hectare. Consult the Metricane 700 WDG label for WARNINGS, PRECAUTIONS and DIRECTIONS FOR USE .

NOTES ON WEEDS CONTROLLED

Inconsistent and variable control of weeds, even at high rates, may be experienced due various reasons such as:

- Stress conditions such as drought, cold or heat stress.
- Plants with foliage with pronounced waxy layers (e.g., *Portulaca oleracea*, *Chenopodium album*, *Gisekia pharnacoides*).
- Inconsistent relationship between above soil and subsoil plant tissue (e.g., *Conyza bonariensis* after dry periods or growth during the winter).
- Plants with natural resistance to **Paraquat** based products (e.g., *Commelina benghalensis*, *Ipomoea* spp., *Malva parviflora* and *Conyza bonariensis*).

- Acquired resistance due to the repeated use of **Paraquat** and/or **Glyphosate** e.g., *Lolium* spp. and *Conyza bonariensis* (confirmed resistance in the RSA).
- Poor coverage and penetration of exposed leaves (e.g., *Argemone subfusiformis*).
- Regrowth by plants with bulbs and tubers e.g., *Cyperus* spp.
- Growth tips protected by leaf sheets covering growth points or surface growth points.
- Periods of growth during the winter.
- Poor water quality.

Consult the **SUMMIT SUPER** label for **WARNINGS, PRECAUTIONS, USE RESTRICTIONS** and **DIRECTIONS FOR USE**.

The following product mentioned in this label may be replaced with an equivalent product:

- **SUMMIT SUPER** (L 8539) = **BENEFIT PLUS** (L 8538).

SKOFFEL® DUO 200 SL is a registered trademark of **VILLA CROP PROTECTION (PTY) LTD.**

METRICANE 700 WDG is a registered trade name of **UNIVERSAL CROP PROTECTION (PTY) LTD.**

SUMMIT SUPER and **BENEFIT PLUS** are registered trade names of **VILLA CROP PROTECTION (PTY) LTD.**