

BEFORE USING THIS PRODUCT READ THE LABEL CAREFULLY!

SHAKE THE BOTTLE WELL BEFORE USE.

Herbicide



SURFLAN® 480 SC

Reg. No. L 7523 Act/Wet No. 36 of/van 1947

2:11/6/2013-Feb2017

An aqueous suspension concentrate pre-emergence herbicide for the control of annual grasses and certain broadleaf weeds in deciduous fruit and vines.

'n Waterige suspensie konsentraat vooropkomsonkruidodder vir die beheer van eenjarige grasse en sekere breëblaaronkruid in sagtevrugte en wingerd.

ACTIVE INGREDIENT / AKTIEWE BESTANDEEL

oryzalin (dinitroaniline) **480 g/l** orisalin (dinitroanilien)

HRAC HERBICIDE GROUP CODE **K1** HRAC ONKRUIDDODER GROEPKODE



villa

Registration holder / Registrasiehouer:

Villa Crop Protection (Pty) Ltd.

Co. Reg. No. / Mpy. Reg. Nr. 1992/002474/07

PO Box / Posbus 10413, Aston Manor, 1630

Tel: 011 396 2233

Website / Webblad: www.villacrop.co.za

UN Number: 3082

Willow Set & Print 011 394-4486



**CAUTION
VERSIGTIG**



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CAUTION / VERSIGTIG**WARNINGS**

- Avoid contact with skin, eyes and clothing.
- Keep out of reach of children, uninformed persons and animals.
- Store away from food and feeds.
- Do not store near heat or flames.
- Do not allow to freeze - store in a cool, dry place (5 to 15 °C).
- Toxic to fish.

Although this remedy has been extensively tested under a large variety of condition, 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 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 the spray mist.
- In case of contact, flush with clean water and wash with soap and water.
- Do not eat, drink or smoke while mixing, applying or before washing hands and face.
- Do not allow spray mist or wash water to contaminate other crops, food, feeds, rivers, dams, grazing and other areas not under treatment.
- **TRIPLE RINSE** empty containers in the following manner. Invert the empty container over the spray or mixing tank and allow draining for at least 30 seconds after the flow has slowed down to a drip. Thereafter rinse the container three times with a volume of water equal to a minimum of a third of that of the container. Add the rinsing to the contents of the spray tank before destroying the container in the prescribed manner.
- Destroy the container by perforation and flattening and dispose of it in a safe way. Do not burn empty containers.
- **Do not** re-use the empty container for any other purpose.
- Prevent contamination of food, feedstuffs, drinking water and eating utensils.

RESISTANCE WARNING

SURFLAN® 480 SC is a group code K1 herbicide. Any weed population may contain individuals naturally resistant to **SURFLAN® 480 SC** and other group code K1 herbicides. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds may not be controlled by **SURFLAN® 480 SC** or any other group code K1 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

- **Crops:** **SURFLAN® 480 SC** can be used on the following established crops:
 - Apples
 - Pears
 - Apricots
 - Nectarines
 - Peaches
 - Plums
 - Grape Vines
- **SURFLAN® 480 SC** will not harm the treated crop if applied according to directions, and under normal growing conditions.
- Do not spray nursery seedlings or cuttings.
- If the foliage of the crop is accidentally sprayed during application, irrigate immediately after application to wash the **SURFLAN® 480 SC** off the leaves.
- Over application may result in leaf chlorosis and/or plant stunting.
- Flood or furrow irrigation will result in erratic weed control.
- **Do not** plant grass crops within one year of **SURFLAN® 480 SC** application.

DIRECTIONS FOR USE: Use only as directed.

Compatibility:

- **SURFLAN® 480 SC** can be used in tank mixtures with **Skoffel® 200 Super**, **Terbuweed 600 WDG**, **GOAL EC** (L 1393) and **SIMAZINE 800 WP** (L 903).

Mixing instructions:

- Shake the **SURFLAN® 480 SC** container thoroughly before mixing.
- Half-fill the spray tank with clean water.
- Add the required quantity of **SURFLAN® 480 SC** to 5 to 10 liters clean water to make a pre-mix suspension.
- Add this suspension to the spray tank and fill to the final required volume with water.
- Ensure thorough agitation of the spray mixture before and during application.
- Apply spray mixture immediately and do not allow unused spray mixture to stand overnight.

Application instructions:

- It is important to ensure that all application equipment is in good working order and correctly calibrated to apply the required spray volumes and dosage rate. Ensure good coverage and distribution by using the spray volumes as indicated.
- Broadcast ground application: Apply 300 to 500 litres spray mixture per hectare.

Timing of Application:

- Existing weed growth must be killed by application of a burn down type herbicide in early September.
- **SURFLAN® 480 SC** should be applied during the period mid-October to end of November to give season long control.
- Apply **SURFLAN® 480 SC** onto a clean, weed-free, moist soil surface.
- **SURFLAN® 480 SC** is a pre-emergence herbicide applied onto the soil surface which therefore requires rain or sprinkler irrigation within 10 days after application to incorporate it into the top layer of soil.
- **SURFLAN® 480 SC** kills weeds as they germinate and therefore will not control established weeds. Shallow cultivation is recommended if weeds emerge.

APPLICATION RATES

Refer to “Mixing instructions” and “Application instructions” above.

1. **ESTABLISHED CROPS: Apples, Pears, Apricots, Nectarines, Peaches, Plums and Grape Vines**

Table 1. SURFLAN® 480 SC recommendations for use.

% Clay	SURFLAN® 480 SC l / ha
0 to 20 %	4.5
20 to 30 %	5.5

WEEDS CONTROLLED BY SURFLAN® 480 SC: SUMMER RAINFALL AREA	
Grasses	
<i>Digitaria sanguinalis</i>	Crab finger grass
<i>Eleusine indica</i>	Goose grass
<i>Echinochloa colona</i>	Marsh grass
<i>Echinochloa crusgalli</i>	Barnyard grass
<i>Panicum schinzii</i>	Sweet buffalo grass
<i>Urochloa panicoides</i>	Herringbone grass
Broadleaf weeds	
<i>Amaranthus deflexus</i>	Perennial pigweed
<i>Amaranthus hybridus</i>	Common pigweed
<i>Amaranthus spinosus</i>	Thorny pigweed
<i>Amaranthus thunbergii</i>	Red pigweed
<i>Chenopodium album</i>	White goosefoot
<i>Portulaca oleracea</i>	Common purslane

WEEDS CONTROLLED BY SURFLAN® 480 SC: WINTER RAINFALL AREA	
Grasses	
<i>Digitaria sanguinalis</i>	Crab finger grass
<i>Eleusine indica</i>	Goose grass
Broadleaf weeds	
<i>Amaranthus deflexus</i>	Perennial pigweed
<i>Amaranthus hybridus</i>	Common pigweed
<i>Amaranthus spinosus</i>	Thorny pigweed
<i>Amaranthus thunbergii</i>	Red pigweed
<i>Chenopodium album</i>	White goosefoot
<i>Polygonum aviculare</i>	Prostrate knotweed

2. **POST-EMERGENCE APPLICATION OF SURFLAN® 480 SC PLUS SKOFFEL® 200 SUPER PLUS TERBUWEED 600 WDG FOR CONTROL OF WEEDS IN VINES**

Table 2.

SURFLAN 480 SC 4.5 l/ha	PLUS	PLUS
	Skoffel® 200 Super 5.0 l/ha	Terbuweed 600 WDG 2.0 kg/ha
WEEDS CONTROLLED		
THE FOLLOWING WEEDS ARE NORMALLY CONTROLLED AT THE DOSAGE RATE AS INDICATED ABOVE:		
Botanical name		Common name
<i>Digitaria sanguinalis</i>		Crab finger grass
<i>Euphorbia helioscopia</i>		Umbrella milkweed
<i>Fumaria muralis</i>		Fumetory
<i>Setarie pallide-fusca</i>		Red / garden bristle grass

NOTES

Refer to the **Skoffel® 200 Super** and **Terbuweed 600 WDG** labels for **WARNINGS, PRECAUTIONS, USE RESTRICTIONS** and **DIRECTIONS FOR USE** and list of additional weed species controlled.

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

- **SKOFFEL® 200 SUPER** (L 6328 / W 130059 / N-AR 1097) = **PARAQUAT SUPER** (L 8155) and
- **TERBUWEED 600 WDG** (L 8800) = **TERBUCIDE 600 WDG** (L 8799 / W 1301046).

TERBUWEED 600 WDG is a registered product of / is 'n geregistreerde produk van
VILLA CROP PROTECTION (PTY) LTD.

TERBUCIDE 600 WDG and/en **SKOFFEL® 200 SUPER** are registered products of / is geregistreerde
produkte van
UNIVERSAL CROP PROTECTION (PTY) LTD.

PARAQUAT SUPER is a registered product of / is 'n geregistreerde produk van
CROP ASURE (PTY) LTD.

SURFLAN® is a registered trademark of / is 'n geregistreerde handelsmerk van:
UNITED PHOSPORUS (PTY) LTD.

GOAL EC and/en **SIMAZINE 800 WP** are registered products of / is geregistreerde produkte van
DOW AGROSCIENCES SOUTH AFRICA