


SIMANEX[®] 500 SC

Reg. no. L5335 Act/Wet 36 of/van 1947
N-AR 0493

READ THE LABEL BEFORE USE
KEEP OUT OF REACH OF CHILDREN AND ANIMALS

GROUP	C1	HERBICIDE
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A suspension concentrate pre-emergence herbicide for the control of a variety of annual grasses and broadleaf weeds in apples, pears, asparagus, triazine resistant canola cultivars, citrus and vines as well as for industrial use on uncultivated areas, roadsides, etc.	'n Suspensiekonsentraat, vooropkoms- onkruiddoder vir die beheer van 'n verskeidenheid eenjarige grasse en breëblaaronkruid in appels, pere, aspersies, triasien weerstandbiedende kanola kultivars, sitrus en wingerde asook vir industriële gebruik op onverboude terreine, padkante, ens.
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 <p>WARNING</p>	<p>Hazard statements Suspected of causing cancer. Very toxic to aquatic life with long lasting effects.</p>
	<p>Precautionary statements Avoid release to the environment. Wear protective gloves, clothing and eye and face protection.</p>

ACTIVE INGREDIENT/AKTIEWE BESTANDDEEL

Simazine (triazine).....	490 g/LSimasien (triasien)
Related active triazines.....	10 g/LVerwante aktiewe triasiene

NET VOLUME/NETTO VOLUME

..... L

REGISTRATION HOLDER/REGISTRASIEHOUER

ADAMA South Africa (Pty.) Ltd.; Reg. no. 1992/001741/07
Ground Floor, Simeka House
The Vineyards Office Estate, 99 Jip de Jager Drive
Bellville, 7530
T: +27 21 982 1460; infocpt@adama.com

UN no.:3082

CONTACT IN EMERGENCY/KONTAK IN NOOD

Griffon Poison Information Centre: +27 82 446 8946
Tygerberg Poison Information Centre: +27 861 555 777

Batch number

Date of Manufacture

Lotnommer

Datum van Vervaardiging

WARNINGS

- Suspected of causing cancer.
- Very toxic to aquatic life with long lasting effects.

- Could be harmful if swallowed.
- May be irritating to eyes and skin in sensitive individuals.
- The product can be absorbed into the body by inhalation of its aerosol and by ingestion.
- Re-entry: Do not enter the treated area within until the spray has dried after application unless wearing protective clothing.

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 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

PREVENTION

- Obtain, read and follow all safety instructions before use.
- Wear protective gloves, protective clothing, and eye and face protection.
- Avoid release to the environment.

RESPONSE

- If exposed or concerned, get medical advice.
- Collect the spillage.

STORAGE

- Store locked up.

- Avoid inhalation of fumes and spray mist.
- Wash with soap and water after use.
- Wash contaminated clothing after use.
- Do not eat, drink, or smoke during mixing or application or before hands and face are washed.
- Store in a cool, dry place away from food, feed, seed and other agricultural remedies.

- No mixing or filling of spray tanks should take place within 15 m of rivers, dams, or boreholes.
- Avoid backward siphoning to boreholes, rivers, or dams if the product is applied through an irrigation system.
- Do not apply the product within 60 m of dams.
- Prevent drift of spray mist onto other crops, rivers, dams, or any area that is not under treatment.
- Clean the applicator thoroughly after application and throw the wash water where it will not contaminate rivers, dams, boreholes or grazing.
- Avoid the contamination of food, feed, drink water and eating utensils.
- Rinse the empty container three times with a volume of water equal to at least 10% of that of the volume of the container. Add the rinsate to the contents of the spray tank.
- Destroy the empty container and do not re-use for any other purpose.

RELEVANT SUBSTANCES

Chemical name	Weight %	CAS no.
Simazine	45.2%	122-34-9
Mono Ethylene Glycol	<10%	107-21-1

FIRST AID

Immediately remove contaminated clothing and move the affected person away from the contamination area. Keep the person warm, calm, and comfortable. First aid personnel should pay attention to their own safety. Take the container label or product name with you when seeking medical attention.

Eye contact: Immediately rinse/flush the eyes gently with water from the eye wash fountain for several minutes (at least 15 minutes), while holding the eyelids apart. Check for and remove contact lenses if easy to do so. Continue rinsing. Obtain medical attention if irritation occurs and persists.

Skin contact: Remove all contaminated clothing and shoes. Rinse the skin immediately with plenty of water for 15 to 20 minutes under the safety shower. Contact a poison control centre or medical practitioner if irritation occurs or persists. Wash contaminated clothing before re-use.

Inhalation: Immediately remove the affected victim from exposure to an area with fresh air. If breathing is difficult have qualified personnel administer oxygen. If breathing has stopped, administer artificial respiration. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the product; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Obtain medical attention if concerned or unwell.

Ingestion: Obtain immediate medical attention or call a poison control center or medical practitioner for treatment advice. If conscious, rinse mouth thoroughly with water. Never give anything by mouth to an unconscious or convulsing person. Do not induce vomiting unless directed to do so by a medical professional. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomits, rinse mouth and administer more water.

TOXICOLOGICAL INFORMATION

Antidotes

No specific antidote. Treat symptomatically and supportively.

Symptoms of human poisoning

Acute health effects: Symptoms of exposure to the product could include weight loss, changes in blood.

Long-term effects: Tremors, damage to kidneys, liver and thyroid.

NOTICE TO THE USER: This agricultural remedy is to be used only according to the directions of this label. It is an offense under the Act to use this product inconsistent with the directions on the label.

RESISTANCE WARNING

For resistance management **SIMANEX[®] 500 SC** is a group code C1 herbicide. Any weed population may contain individuals naturally resistant to **SIMANEX[®] 500 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 **SIMANEX[®] 500 SC** or any other group code C1 herbicides.

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 control methods (chemical, cultural and biological) into weed control programs.

For specific information on resistance management contact your local distributor.

MODE OF ACTION

Inhibition of photosynthesis at PS II – D1 Serine 264 Binders.



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SOME WEED SPECIES NORMALLY CONTROLLED BY SIMANEX® 500 SC

Botanical Name	Common Name
<i>Amaranthus hybridus</i>	cape pigweed
<i>Amaranthus spinosus</i>	thorny pigweed
<i>Amaranthus thunbergii</i>	red pigweed
<i>Anagallis arvensis</i>	scarlet pimpernel
<i>Arctotheca calendula</i>	Cape marigold
<i>Bidens bipinnata</i>	spanish blackjack
<i>Bidens pilosa</i>	blackjack
<i>Chenopodium album</i>	white goosefoot
<i>Chenopodium murale</i>	nettle-leaved goosefoot
<i>Cleome monophylla</i>	single-leaved cleome
<i>Commelina benghalensis</i>	Benghal wandering Jew
<i>Conyza canadensis</i>	fleabane
<i>Conyza albida</i>	tall fleabane
<i>Datura ferox</i>	large thorn apple
<i>Datura stramonium</i>	common thorn apple
<i>Erodium moschatum</i>	musk heron's bill
<i>Fallopia convolvulus</i>	climbing knotweed
<i>Fumaria muralis</i>	fumitory
<i>Galinsoga parviflora</i>	gallant soldier
<i>Nicandra physaloides</i>	apple of Peru
<i>Oenothera stricta</i>	primrose
<i>Polygonum aviculare</i>	prostrate knotweed
<i>Portulaca oleracea</i>	purslane
<i>Raphanus raphanistrum</i>	wild radish
<i>Richardia brasiliensis</i>	Mexican richardia



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Botanical Name	Common Name
<i>Schkuhria pinnata</i>	dwarf marigold
<i>Sisymbrium officinale</i>	hedge wild mustard
<i>Solanum nigrum</i>	black nightshade
<i>Sonchus oleraceus</i>	common sowthistle
<i>Spergula arvensis</i>	corn spurry
<i>Stellaria media</i>	chickweed
<i>Tagetes minuta</i>	tall khaki weed
<i>Urtica urens</i>	bush stinging nettle

GRASSES

Botanical Name	Common Name
<i>Avena fatua</i>	common wild oats
<i>Bromus catharticus</i>	rescue grass
<i>Chloris virgata</i>	feathertop chloris
<i>Eleusine indica</i>	goose grass
<i>Eragrostis tef</i>	teff grass
<i>Lolium perenne</i>	perennial ryegrass
<i>Lolium temulentum</i>	Darnel
<i>Poa annua</i>	annual bluegrass
<i>Setaria pallide-fusca</i>	garden bristle grass
<i>Urochloa panicoides</i>	garden Urochloa

ERRATIC CONTROL MAY BE OBTAINED OF THE FOLLOWING WEEDS

Botanical Name	Common Name
<i>Emex australis</i>	spiny emex
<i>Tribulus terrestris</i>	common dubbeltjie
<i>Digitaria sanguinalis</i>	crabfinger grass
<i>Oxalis</i> spp.	sorrel
<i>Setaria verticillata</i>	bur bristle grass
<i>Plantago lanceolata</i>	buckhorn plantain
<i>Malva parviflora</i>	small mallow

This product controls annual grasses and broad leaf weeds. Other annual weeds that were not present during the development trials with the product, may possibly also be controlled to a certain degree. The registration holder does however not accept any responsibility for unlisted weeds.

SIMANEX® 500 SC does not control deep-rooted perennial weeds.

WEED SPECTRUM FOR THE REDUCED RATE IN CANOLA (2.0 L/ha)

Botanical Name	Common Name
<i>Anagallis arvensis</i>	pimpernel
* <i>Emex australis</i>	spiny emex
<i>Erodium moschatum</i>	musk heron's bill
<i>Fumaria muralis</i>	fumitory
<i>Raphanus raphanistrum</i>	wild radish

* *Emex australis* control can be erratic

DIRECTIONS FOR USE

Use only as indicated.

USE RESTRICTIONS

- DO NOT USE **SIMANEX® 500 SC** ON STONE FRUIT.
- **SIMANEX® 500 SC** must not be applied to apples, pears and vines within three years and citrus within one year after transplant. Prevent treatment of young implants in established vines and orchards.

- **SIMANEX® 500 SC** may cause damage to crops which have a trace element deficiency or which are growing on alkaline or brackish soils.
- **SIMANEX® 500 SC** must not be applied to newly established asparagus.
- **SIMANEX® 500 SC** has a relative long residual action in the soil and susceptible crops like cereals, vegetable crops and leguminous plants should not be planted within 18 months after application. However, if **SIMANEX® 500 SC** is applied to triazine resistant canola in the winter rainfall region at a rate of not more than 2.0 L/ha (1.0 kg a.i./ha) and normal rainfall occurs, the waiting period on cereals can be reduced to 12 months.
- **SIMANEX® 500 SC** may ONLY be used on triazine resistant canola cultivars.

Compatibility

The compatibility of **SIMANEX® 500 SC** with other products can be influenced by the formulation of those products and the quality of the dilution water. The formulation of products can change without the knowledge of ADAMA South Africa (Pty.) Ltd, and the water quality can differ from farm to farm. It is therefore advisable to do a compatibility test before an application takes place. **SIMANEX® 500 SC** is normally compatible with glyphosate, paraquat and MCPA formulations.

Mixing instructions

Half fill the tank with clean water. Mix the required quantity of **SIMANEX® 500 SC** separately in a small volume of water and add to the spray tank while agitating. Fill the tank with water while still agitating. It is important to note that agitation should take place continuously during mixing and application. If **SIMANEX® 500 SC** is used in a tank mix with products as mentioned above, the **SIMANEX® 500 SC** is added first. Fill the tank nearly to capacity before the other compound is added where after the tank is filled to capacity. Agitation must be maintained during the filling and application process.

APPLICATION

General

SIMANEX® 500 SC can be applied by means of any medium or high-volume boom/spray fitted with an efficient agitation mechanism and which is able to distribute the spray solution evenly over the target area. Flat fan nozzles which can deliver 200 L spray mixture per ha is recommended. **SIMANEX® 500 SC** is absorbed mainly by the roots and not by the leaves of weeds. It must, therefore, be applied on a fine, firm seedbed free of clods and existing weeds. To achieve optimal results it should rain, or irrigation should take place within 7 – 10 days after application to leach the **SIMANEX® 500 SC** into the soil. If there are weeds present at application, **SIMANEX® 500 SC** can be applied in a tank mix with a suitable contact herbicide. It is important to wet the existing weeds thoroughly with the **SIMANEX® 500 SC** and contact herbicide mixture.



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APPLICATION RATES

CROP	CLAY %	DOSAGE (L/ha)	DIRECTIONS FOR USE
Apples and pears (older than three years)	0–15	Single Application 4.0 L	Apply during spring to a weed free soil. When weeds are present, SIMANEX® 500 SC should be applied in conjunction with a suitable registered post-emergent herbicide, e.g. paraquat, glyphosate or MCPA as a directed spray. This method will give improved late season weed control. First application Apply SIMANEX® 500 SC in spring to a weed free soil Second application Apply SIMANEX® 500 SC as soon as weeds begin to germinate or within 3 months after the first application. Where weeds are present, SIMANEX® 500 SC should be applied in conjunction with a suitable registered post-emergence herbicide as a directed spray (see single application). Rain or irrigation is a prerequisite to leach SIMANEX® 500 SC into the soil.
	>15	6.0 L	
	0–15	Not recommended	
	>15	1 st application: 3.0 L 2 nd application: 3.0 L	
Asparagus (on established asparagus in summer rainfall area only)	0–20	4.0 L	Apply as a pre-emergent overall spray immediately after the ridges have been levelled and before weeds emerge. NOTE: For optimal weed control is essential that the application should be followed by rain or irrigation within 10 – 14 days after application of SIMANEX® 500 SC .
	>20	6.0 L	
Canola Triazine resistant cultivars ONLY	-	2.0 L	Apply directly after planting on a fine, firm weed free seedbed pre-emergence of the crop and weeds. Continuous rain or irrigation of at least 10 mm is necessary to leach the herbicide into the soil within 7 – 10 days and before weed emergence. If it does not rain within the prescribed



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CROP	CLAY %	DOSAGE (L/ha)	DIRECTIONS FOR USE
			<p>time, and weeds start to emerge a light cultivation can be done to control the weed seedlings and to incorporate the product in the soil.</p> <p>See weed spectrum for reduced rate.</p>
Vines (older than three years)	0–15 >15	Single application Pre-bud burst application (Dryland and under irrigation) 4.0 L 6.0 L	Apply from early July to shortly before budburst to a weed free seedbed. Where weeds are present SIMANEX® 500 SC should be applied in combination with a suitable registered post-emergent herbicide, e.g. paraquat, glyphosate or MCPA.
		Post-bud burst application (Only trellised vines under irrigation) 4.0 L 6.0 L	
	0–15 >15	Split application (Only trellised vines under irrigation) Not recommended 1 st application: 3.0 L 2 nd application: 3.0 L	Aimed at giving improved late season weed control. First application: Apply SIMANEX® 500 SC in spring to a weed free soil Second application: Apply SIMANEX® 500 SC as soon as weeds begin to germinate or within 3 months after the first application. Where weeds are present, SIMANEX® 500 SC should be applied in conjunction with a suitable registered post-emergence herbicide as a directed spray (see single application).



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CROP	CLAY %	DOSAGE (L/ha)	DIRECTIONS FOR USE
Citrus (Older than one year)	0– 5 >15	4.0 L 6.0 L	Apply during spring to a weed free seedbed before weeds emerge and irrigate lightly after application to leach herbicide into the soil. When weeds are present, SIMANEX® 500 SC should be applied in conjunction with a suitable registered post-emergent herbicide, e.g. paraquat, glyphosate or MCPA as a directed spray.

INDUSTRIAL USE

LOCATION	DOSAGE (L/ha)	DIRECTIONS FOR USE
Summer rainfall areas 5–20% clay 21–30% clay >30% clay Light soils in Kwa-Zulu Natal coastal area Ash and coal dust covered soils	17–20 L 20–25 L 25–30 L 20 L followed by 12 L as required 30 L followed by 12 L as required	Use the higher rate where seasonal rainfall exceeds 800 mm and on heavy soils. Should weed germination occur, re-apply at half the initial rate combining this with a suitable post-emergence herbicide. The greater the volume of SIMANEX® 500 SC applied, the longer the period of weed control. On the light Kwa-Zulu Natal coastal soils, a follow-up application is necessary in the high rainfall areas.
Winter rainfall areas	15–20 L	When used alone, SIMANEX® 500 SC should be applied prior to weed emergence at the beginning of the rainy season.