

# RACER<sup>®</sup> 200 CS


Reg. no. L3904 Act/Wet 36 of/van 1947



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

GROUP	F1	HERBICIDE
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<p>A capsule suspension pre-emergence residual herbicide for the control of various weeds as listed in potatoes, carrots, sunflowers and deciduous fruit.</p>	<p>'n Kapsulesuspensie vooropkoms residuele onkruidoder vir die beheer van verskeie eenjarige onkruid soos aangedui in aartappels, wortels, sonneblom en sagtevrugte.</p>
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 <p><b>DANGER</b></p>	<p><b>Hazard statements</b> May cause and allergic skin reaction. May damage fertility or the unborn child. Very toxic to aquatic life with long lasting effects.</p> <p><b>Precautionary statements</b> Wear protective gloves; protective clothing; eye protection and face protection. Avoid release to the environment.</p>
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## ACTIVE INGREDIENT/AKTIEWE BESTANDEEL

flurochloridone ..... 200 g/L ..... flurochloridoon

## NET VOLUME/NETTO VOLUME

..... L

## REGISTRATION HOLDER/REGISTRASIEHOUER

ADAMA South Africa (Pty) Ltd; Reg. no. 1992/001741/07  
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UN no.: 3082

### In case of poisoning, call the following numbers:

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

### Emergency number:

SPILL TECH: +27 86 100 6366 or +27 83 253 6618

Batch number .....  
Date of Manufacture .....  
Expiry date .....

Lotnommer .....  
Datum van Vervaardiging .....  
Vervaldatum .....

## WARNINGS

- May cause an allergic skin reaction.
  - May damage fertility or the unborn child.
  - Very toxic to aquatic life with long lasting effects.
- Could be harmful if swallowed and inhaled.
  - Avoid contact with skin and eyes.
  - Store away from food, feed and other chemicals.
  - In case of poisoning summon a physician and show this label to him.
  - Re-entry: Do not enter treated area within 1 day after treatment unless wearing protective clothing.

**Although this remedy has been extensively tested under a large variety of conditions, the registration holder does not guarantee that it will be effective under all conditions. The activity 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, as well as by the method, time and accuracy of application. The registration holder furthermore does not accept responsibility for damage to crops, vegetation, and the environment or harm to man or animal, or for lack of performance of the remedy concerned due to failure by 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

- Keep out of reach of children.
- Obtain, read and follow all safety instructions before reuse.
- Avoid breathing dust/fume/gas/mist/vapours or spray.
- Wear protective gloves, protective clothing, and eye and face protection.
- Avoid release to the environment.
- If exposed or concerned get medical advice.
- IF ON SKIN: Wash with plenty of water and soap.
- If skin irritation or rash occurs get medical help.
- Specific treatment (see supplemental first aid instructions on this label).
- Contaminated work clothing should not be allowed out of the workplace.
- Take off contaminated clothing and wash it before reuse.
- Store locked up.
- Collect spillage.
- Dispose of contents/ container to an approved waste disposal plant.

- Do not eat, drink or smoke whilst handling this product.
- Prevent contamination of food, feed, drinking water and eating utensils.
- Invert the empty container over the spray or mixing tank and allow to drain 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 10% of that of the container. Add the rinsings to the contents of the spray tank before destroying the container.
- While spraying, avoid contact with the spray as much as you can.
- Avoid spray drift onto other crops, grazing, rivers or dams.
- Clean applicator thoroughly after use and dispose of wash water where it will not contaminate crops, grazing, rivers or dams.
- Destroy empty container and do not use for any other purpose.

## RELEVANT SUBSTANCES

Chemical name	w/w %	CAS no.
Hydrocarbons, C10-C13, aromatics, <1% naphthalene	10–30%	EC no:922-153-0
Flurochloridone	10–30%	61213-25-0

## FIRST AID

In case of accident or unwellness, seek medical advice immediately. Provide this label and SDS to medical personnel for treatment. Emergency personnel should wear protective clothing appropriate to the type and degree of contamination.

Immediately remove contaminated clothing and remove the affected person from the contamination area. Keep the person warm, calm and covered up. 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 flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

**Skin contact:** Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a physician if necessary.

**Inhalation:** Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call

a physician.

**Ingestion:** If conscious, rinse mouth thoroughly with water. Drink plenty of water. Never give anything by mouth to an unconscious or convulsing person. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomit, rinse mouth and administer more water. If symptoms persist, call a physician.

## TOXICOLOGICAL INFORMATION

### Antidotes

None known. Treat symptomatically.

### Symptoms of human poisoning

None known.

## RESISTANCE WARNING

For the purpose of resistance management **RACER® 200 CS** is classified as a group code F1 herbicide. Any weed population may contain individuals naturally resistant to **RACER® 200 CS** and other group code F1 herbicides. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds might not be controlled by **RACER® 200 CS** or other group code F1 herbicides.

To delay the development of herbicide resistance the following should be done:

- Avoid exclusive repeated use of herbicides from the same herbicide group code. Alternate or tank mix with products from different herbicide codes.
- Integrate control methods (chemical, cultural and biological) into weed control programs.
- For specific information contact the local distributor agent or the registration holder.

## MODE OF ACTION

F1: Inhibition of phytoene desaturase.

## USE RESTRICTIONS

- Do not spray **RACER® 200 CS** directly adjacent to leafy crops, especially vines and fruit trees or brassica species. **RACER® 200 CS** vapors or drift may damage such crops.
- Follow-up crops: Do not plant tomatoes, tobacco, cruciferous crops or cucurbits within 12 months of a **RACER® 200 CS** application. If more than 1.25 L/ha of **RACER® 200 CS** had been applied then these crops may only be planted 18 months after application. Do not plant any crop within 6 months of a **RACER® 200 CS** application, except those on which **RACER® 200 CS** is registered. Do not sow any seedbeds within 18 months after a **RACER® 200 CS** application. Soil must be deeply ploughed and cultivated before follow-up crop is planted. In the event of uncertainty, contact your supplier.
- Do not use **RACER® 200 CS** for more than 3 years in succession on deciduous fruit.
- Under cropping conditions, do not apply **RACER® 200 CS** more than once per year to the same land and then only at the recommended rate.
- Spraying equipment used for applying **RACER® 200 CS** may not be used for foliar spraying.

## DIRECTIONS FOR USE

### Use only as directed.

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.

- Apply as a pre-emergence spray to both crop and weeds. Apply immediately or as soon as possible after planting of the crop.
- It is important to ensure that the seedbed is free from any existing weed growth as well as in a state of fine tilth prior to application.
- Continual rain of at least 15 mm is required to activate and leach the chemical into the soil before weed seeds germinate.
- It would be preferable to use **RACER® 200 CS** during times when the regular occurrence of rain is expected as the performance of the chemical is enhanced by soil moisture content.
- Compatibility: Although no known cases of incompatibility with other agricultural chemicals have been noted with **RACER® 200 CS** it is advisable to pre-mix small quantities of the chemicals in water in a container to ascertain compatibility prior to mixing in spray tank.
- Use only clean water in spray tank.
- Always ensure that spray equipment is clean, free of all sediments etc. and correctly calibrated before spraying.
- Spraying equipment: Apply with a tractor boom sprayer fitted with wide angle flat fan nozzles (e.g. spraying systems 11004). Apply with low pressure (200 kPa) in 200–400 L water/ha. Adjust boom as low as possible to allow adequate overlapping of the spray pattern.
- Wind: Do not apply **RACER® 200 CS** when the wind speed exceeds 6 km/h ( $\pm 1.7$  m/sec).
- **NOTE:** Wash spray tank/equipment immediately after use with **RACER® 200 CS** by thoroughly rinsing at least 3 times with clean water. Do not let **RACER® 200 CS** stand in spray tank.

## APPLICATION RATES

CROP	SOIL CLAY %	DOSAGE L/HA	REMARKS
Potatoes	0–9	–	Not recommended.
	10–19	2.5	<p>Use only good quality seed ensuring adequate planting depth (12–15 cm) in a well prepared (fine) and properly fertilized seedbed.</p> <p>It is desirable to spray <b>RACER® 200 CS</b> after ridging, but definitely before crop emergence. In the event of ridging taking place after spraying of <b>RACER® 200 CS</b> some loss in activity may result due to untreated soil being uncovered in the process.</p> <p>Some temporary bleaching of the crop may occur under conditions of excessive rainfall following a <b>RACER® 200 CS</b> application, especially on lighter soils. This will however not affect the yield.</p> <p>If crop is grown under dry land conditions it is advisable to use <b>RACER® 200 CS</b> in combination with a suitable grass herbicide.</p>
	20–29	3.2	
	30 and above	3.8	

**NOTE:** If annual grass and broadleaf weed control is required in potatoes, **RACER® 200 CS** may be used in combination with **ACETOCHLOR 750 g/L** in a tank-mix as follows:

CROP	SOIL CLAY %	DOSAGE L/HA		REMARKS
		RACER® 200 CS	ACETO-CHLOR 750 g/L	
Potatoes	0–10	0.5	0.9	<p>Strictly adhere to all label recommendations that appear on the ACETOCHLOR 750 g/L label.</p> <p>Apply the combination of <b>RACER® 200 CS</b> + ACETOCHLOR 750 g/L after planting as prescribed under REMARKS under Potatoes.</p>
	11–20	1.0	1.8	
	21–30	1.25	2.3	
	30 and higher	1.5	2.7	



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CROP	SOIL CLAY %	DOSAGE L/HA		REMARKS
		RACER® 200 CS	ACETO-CHLOR 750 g/L	
Potatoes (continued)				<p>Mixing: Add measured amount of ACETOCHLOR 750 g/L to half fill spray tank and agitate, followed by the measured amount of <b>RACER® 200 CS</b>. Fill the spray tank whilst agitating. Do not mix products as concentrates.</p> <p>The control of spiny Emex (<i>Emex australis</i>) and <i>Polygonum</i> species may not be acceptable with this combination.</p>

CROP	SOIL CLAY %	DOSAGE L/HA	REMARKS
Carrots	0–19	2.5	<p>Apply immediately or as soon as possible after sowing.</p> <p>A light irrigation of at least 15 mm must be applied shortly after application.</p> <p>See USE RESTRICTIONS regarding follow-up crops.</p>
	20–29	3.2	
	30 and above	3.8	

CROP	SOIL CLAY %	DOSAGE L/HA	REMARKS
Sunflowers	0–10	–	<p>Not recommended.</p> <p>Apply immediately or as soon as possible after planting before crop germination.</p> <p>Do not use <b>RACER® 200 CS</b> in seed, birdseed or confectionary type sunflower.</p> <p>Do not use <b>RACER® 200 CS</b> on sunflowers which have been planted in very shallow soil.</p>
	11–20	2.5 L	
	21–30	3.2 L	
	> 30	3.8 L	

**NOTE:** If annual grass and broadleaf weed control is required in sunflowers, **RACER® 200 CS** may be used in combination with **ALANEX® 384 EC** or **ALANEX® 480 CS** in a tank mix as follows:

SOIL CLAY %	DOSAGE L/HA			REMARKS
	RACER® 200 CS	ALANEX® 384 EC	ALANEX® 480 CS	
5–20 > 20 Please refer to the note below.	1.0 L 1.25 L	2.0 L 3.0 L	1.6 L 2.4 L	<p>Strictly adhere to all label recommendations that appear on the <b>ALANEX® 384 EC</b> or <b>ALANEX® 480 CS</b> labels.</p> <p>Apply the combination of <b>RACER® 200 CS</b> plus the <b>ALANEX®</b> formulations after planting as is described under <b>REMARKS</b> above.</p> <p>If <b>ALANEX® 384 EC</b> is used it should be added to the half-filled spray tank first before the <b>RACER® 200 CS</b> is added.</p> <p>The control of spiny Emex (<i>Emex australis</i>) and <i>Polygonum</i> spp may not be acceptable with this combination.</p>

**IMPORTANT:** Do not use on soils which are subject to wind erosion

#### DECIDUOUS FRUIT (all ages)

SOIL CLAY %	DOSAGE L/HA	REMARKS
All soil types	5.0–6.3	<p>For use as a late winter application in orchards of all ages. For the pre-emergence control of annual summer weeds (apples, pears, table peaches, canning peaches, plums and nectarines).</p> <p>Apply the higher dosage rate where improved residual control of crab finger-grass (<i>Digitaria sanguinalis</i>) is required.</p> <p>Apply as a high volume directed spray using wide angle flat fan nozzles calibrated to apply a minimum of 350 L water/ha. <b>Do not spray over the crop.</b></p> <p>Apply <b>RACER® 200 CS</b> as a late winter pre-emergence application. For optimum results <b>RACER® 200 CS</b> must be sprayed onto bare ground. If weeds are present these should be hand weeded or scorched off with a contact herbicide. <b>RACER® 200 CS</b> can be mixed with paraquat.</p> <p>Apply <b>RACER® 200 CS</b> 4 weeks before bud swell. <b>RACER® 200 CS</b> must not under any circumstances be sprayed later than 4 weeks before bud swell.</p>



		<p>Do not disturb the soil surface after the application of <b>RACER® 200 CS</b>.</p> <p><b>NOTE:</b> Use a separate sprayer for the application of <b>RACER® 200 CS</b>. Spray tanks and equipment that have been used for <b>RACER® 200 CS</b> applications must NOT be used for foliar application in orchards.</p>
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## WEEDS CONTROLLED

### Annual broadleaf weeds

BOTANICAL NAME	COMMON NAME
<i>Amaranthus deflexus</i>	perennial pigweed
<i>Amaranthus spinosus</i>	thorny pigweed
<i>Arctotheca calendula</i>	Cape marigold
<i>Bilderdykia convolvulus</i>	climbing knotweed
<i>Chenopodium album</i>	white goosefoot
<i>Chenopodium murale</i>	nettle-leaved goosefoot
<i>Cirsium vulgare</i>	spear thistle
<i>Conyza sumatrensis*</i>	tall fleabane
<i>Emex australis</i>	spiny emex
<i>Fumaria muralis</i>	fumitory
<i>Galinsoga parviflora</i>	Gallant soldier
<i>Lepidium africanum</i>	pepper cress
<i>Nicandra physaloides</i>	apple of Peru
<i>Oenothera stricta</i>	evening primrose
<i>Plantago lanceolate</i>	narrow-leaved ribwort
<i>Polycarpon tetraphyllum</i>	four-leaved allseed
<i>Polygonum aviculare</i>	prostrate knotweed
<i>Portulaca oleracea</i>	purslane
<i>Raphanus raphanistrum</i>	common wild radish
<i>Solanum nigrum</i>	nightshade

BOTANICAL NAME	COMMON NAME
<i>Sonchus oleraceus</i>	sowthistle
<i>Spergula arvensis</i>	corn spurry
<i>Tribulus terrestris</i> *	dubbeltjie
<i>Urtica dioica</i>	stinging nettle
<i>Veronica persica</i>	field speedwell
<i>Vicia sativa</i>	broad-leaved purple vetch

\* Only at 5.0–6.25 L/ha (orchards only)

#### Annual grass weeds

BOTANICAL NAME	COMMON NAME
<i>Digitaria sanguinalis</i> *	crab fingergrass
<i>Lolium temulentum</i>	Italian ryegrass
<i>Poa annua</i>	winter grass

\* Only at 5.0–6.25 L/ha (orchards only)