



The miracles of science™



# CATO®

Reg. No. L5300 Act No. 36 of 1947

Reg. Nr. L5300 Wet Nr. 36 van 1947

A water dispersible granular herbicide for post-emergent control of various annual weeds as listed in potatoes and tomatoes.

'n Water disperseerbare korrelonkruiddoder vir die na-opkom beheer van eenjarige onkruidе soos gelys in aartapples en tamaties.

SEE ENCLOSED LEAFLET FOR FULL PARTICULARS

SIEN INGESLOTE PAMFLET VIR VOLLEDIGE BESONDERHEDE

### ACTIVE INGREDIENT

Rimsulfuron (sulfonylurea)

....250 g/kg....

### AKTIEWE BESTANDDEEL

Rimsulfuron (sulfonielureum)

Net mass

500 g

Netto massa

### REGISTERED BY / GEREGISTREER DEUR:

DUPONT DE NEMOURS INT. S.A.  
Co. Reg. No. 81/008502/10  
P O BOX / POSBUS 3332  
HALFWAY HOUSE 1685  
Tel: (012) 683-5600

**24 HOUR/UUR EMERGENCY  
NUMBER/ NOODNOMMER:  
083 123 3911**

**UN No. / VN Nr. 3077**

BATCH NUMBER  
DATE MANUFACTURED

  

LOTNOMMER  
DATUM VAN VERVAARDIGING



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# CATO®

Reg. No. L5300 Act No. 36 of 1947

Contains rimsulfuron

## **WARNINGS:**

- Allow 30 days between harvest and last application of **CATO®**.
- Over exposure to the product may irritate eyes, skin and mucous membranes and may result in general malaise.
- Keep out of reach of children, animals and uninformed persons. Store in a cool, dry place. Store away from food and feeds. Should the recommended dosage rates be exceeded, damage to the crop may occur.
- When lengthy wet, cold conditions prevail soon after **CATO®** application, a yellowing of the leaves of plants, and in extreme cases, temporary stunting, may occur. Injury is more prevalent under poor drainage or compacted conditions or when soil is saturated for long periods of time. Crops will rapidly outgrow stunting once favourable growing conditions return.

**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 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 smoke, drink or eat while using this product.

Avoid contamination of food, feed, drinking water and eating utensils.

For safety when mixing:

- Do not inhale dust.
- Wear eye protection (at least glasses).
- Wear rubber gloves.
- In the event of contact with eyes, wash with water immediately.
- In the event of contact with skin, wash with water immediately.
- In the event of contact with clothes, remove and wash.

For safety when spraying:

- Avoid contact with the spray as much as possible.
- Avoid spray drift onto susceptible crops, grazing, rivers, dams and areas not under treatment.

For safety after spraying:

- Wash yourself.
- Change and wash work clothes.
- Clean applicator thoroughly after use using the following method:
  - i. Drain tank completely then flush tank, boom and hoses with clean water. Drain again.
  - ii. Fill the tank with clean water and add household ammonia (contains 3 % active) at the rate of 1 l for every 100 l water. Drain completely.
  - iii. To remove traces of ammonia, rinse the tank with clean water and flush through booms and hoses.
  - iv. Repeat step (ii).
  - v. Nozzles and filters must be removed and cleaned separately with ammonia solution at the same concentration as above.
  - vi. Any contamination on the outside of the spraying equipment should be removed by washing with clean water.

Do not spray, drain or flush equipment on or near desirable trees or plants or where their roots may extend.

### **CONTAINER DISPOSAL:**

- Containers and packages must be completely emptied before being disposed of.
- Shake out thoroughly into the application hopper before destroying empty container.
- Never re-use the container for another purpose.

### **RESISTANCE STATEMENT:**

When herbicides with the same mode of action are used in the same land for several consecutive years, it is possible that a selection of naturally occurring resistant weed species may take place. These will propagate and become dominant. A weed species is resistant to a herbicide if it survives a treatment correctly carried out at the recommended dose and application timing.

If a weed species is resistant to one sulfonylurea product, it can be expected that it will be resistant to all sulfonylurea herbicides. Development of resistance can be avoided by alternating with product having a different mode of action but the same effect on the weed species.

### **USE RESTRICTIONS:**

#### **1. FOLLOW-UP CROPS:**

- Potatoes and transplanted tomatoes may be planted immediately after application of **CATO**<sup>®</sup>.
  - Maize, tobacco and direct seeded tomatoes may not be planted within 3 months of application of **CATO**<sup>®</sup>.
  - In case of all other crops, areas treated with **CATO**<sup>®</sup> should not be planted within 12 months of application. A test planting is nevertheless recommended.
2. **CATO**<sup>®</sup> may have a short residual effect on germinating weeds, the control of which might be affected by factors such as weed species, soil pH, soil moisture and soil temperatures.
  3. The efficacy of **CATO**<sup>®</sup> will be adversely affected if cool, dry conditions prevail after spraying.
  4. Soils with exceptionally high clay content, high cation exchange capacity and exceptionally high organic matter may also adversely affect the efficacy of **CATO**<sup>®</sup>.
  5. Prepare only sufficient spray for immediate use and under no circumstances should unused spray mixture be held overnight.
  6. Do not spray **CATO**<sup>®</sup> onto the crop when it is growing under stress (stress can result from water logging, drought, disease, insect damage and mineral element deficiencies, especially nitrogen).
  7. Use only water of which the quality is suitable for overhead irrigation. (Avoid water with a conductivity exceeding 1,0 mS/cm, a resistance of less than 300 ohm and pH higher than 8).
  8. It is not recommended that **CATO**<sup>®</sup> be used on potatoes grown for the purpose of seed certification.

### **DIRECTION FOR USE:**

### **USE ONLY AS DIRECTED**

1. A dosage rate variation of up to 7,5 % can occur if the measuring cup provided is used to measure the required dosage rate. For total accuracy the dosage rates must be weighed out.
2. Apply **CATO**<sup>®</sup> after emergence of the weeds. **CATO**<sup>®</sup> can be applied pre- or post emergent of potatoes. **CATO**<sup>®</sup> can be applied at any time on transplanted tomatoes but not before the 4 leaf stage in the case of direct seeded tomatoes.
3. Apply **CATO**<sup>®</sup> between the 3-6 leaf stage of the weeds.
4. **CATO**<sup>®</sup> is absorbed mainly through the leaves and should be applied on young actively growing weeds.
5. The addition of a surfactant is essential to improve the activity of **CATO**<sup>®</sup> under all conditions. Refer to application table for specific recommendation.
6. Rainfall or irrigation within 3 hours of **CATO**<sup>®</sup> application may result in decrease or loss of activity.

### **MIXING INSTRUCTIONS:**

1. Mix the required amount of **CATO**<sup>®</sup> with a small amount of water to form a smooth creamy paste.
2. Half-fill the spray tank with water.
3. Add the pre-mixed product to the tank through a sieve. Top up to the required volume while agitating continuously.

- Add the required amount of surfactant to the spray mixture and wait until thoroughly mixed and ensure spray tank is filled to correct level before commencing application.

**NOTE:** Ensure that thorough agitation of the spray mixture is maintained at all times.

**APPLICATION:**

Apply by means of tractor mounted boom sprayer or knapsack sprayer which is correctly calibrated to deliver at least 200 l spray mixture/ha at a constant speed and pressure (100-200 kPa) to ensure an even delivery. Avoid overlapping of swaths and close the nozzles during starting, slow movement, turning and stopping to prevent over-application

CROP	DOSAGE	REMARKS
<b>POTATOES AND TOMATOES:</b>	<b>CATO:</b> 90 g per ha + surfactant: Armoblen 650 at 0,1-0,2 % or Agripron Super at 2-3 l per ha.	Do not spray onto direct seeded tomatoes before the 4 leaf stage. Apply as a post-emergence spray to actively growing young weeds in the 3-6 leaf stage. Treat grasses before the tillering stage.

**WEEDS CONTROLLED:**

The following weeds are normally controlled by **CATO®**:

BOTANICAL NAME	COMMON NAME
<i>Amaranthus spp.</i>	Pigweed
<i>Convolvulus arvensis</i>	Field bindweed
<i>Emex australis</i>	Spiny emex
<i>Fumaria muralis</i>	Drug fumitory
<i>Raphanus raphanistrum</i>	Wild radish
<i>Schkurhia pinnata</i>	Dwarf marigold
<i>Sida rhombifolia</i>	Pretoria sida
<i>Spergula arvensis</i>	Spurry
<i>Stellaria media</i>	Chick weed
<i>Tribulus terrestris</i>	Common dubbeltjie
<i>Vicia sativa</i>	Broadleaved Purple Vetch
<i>Avena fatua</i>	Common wild oats
<i>Panicum maximum</i>	Common buffalo grass
<i>Panicum schinzii</i>	Vlei panicum
<i>Tragus berteronianus</i>	Small carrot seed grass

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