

BEFORE USING THIS PRODUCT READ THE LABEL CAREFULLY!

Insecticide



STETSON 310 SL

Reg. No. L 7904 Act/Wet No. 36 of/van 1947

2 : 10/9/2018-Sept2018

A water-soluble liquid systemic nematocide / insecticide for protection against nematode and insect pests on crops as listed.

'n Wateroplosbare vloeistof sistemiese aalwurm- / insekdoder vir beskerming teen aalwurm- en insekplae op gewasse soos gelys.

ACTIVE INGREDIENT / AKTIEWE BESTANDEEL

oxamyl (carbamate) **310 g/ℓ** oksamil (karbamaat)

IRAC INSECTICIDE GROUP CODE **1A** IRAC INSEKDODER GROEPEKODE



villa

Registration holder / Registrasiehouer:

Universal Crop Protection (Pty) Ltd.

Co. Reg. No. / Mpy. Reg. Nr. 1983/008184/07

PO Box / Posbus 801, Kempton Park, 1620

Tel: 011 396 2233

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UN Number: 2991



Willow Set & Print 011 394-4486



**VERY TOXIC
UITERS GIFTIG**



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UNIVERSAL CROP PROTECTION (PTY) LTD.

Co. Reg. No. 1983/008184/07 Mpy. Reg. Nr.

P.O. Box / Posbus 801

KEMPTON PARK, 1620 Tel. (011) 396 2233

VERY TOXIC**UITERS GIFTIG****WARNINGS****Withholding periods:**

Minimum number of days between last application and harvest:	
Groundnuts	80 days
Maize	42 days
Potatoes	30 days
Tomatoes	21 days

NOTE

IN THE CASE OF CROPS INTENDED FOR EXPORT, CONFIRM WITHHOLDING PERIODS WITH THE RELEVANT EXPORT ORGANISATION. IF THIS PRODUCT IS USED ACCORDING TO THE RECOMMENDATIONS ON THIS LABEL, LOCAL MRL VALUES WILL NOT BE EXCEEDED. HOWEVER, UNIVERSAL CROP PROTECTION (PTY) LTD. CANNOT ACCEPT RESPONSIBILITY FOR EXPORTED CROPS EXCEEDING THE IMPORT TOLERANCES OF OTHER COUNTRIES.

- Handle with extreme care.
- Poisonous by swallowing, inhalation and skin contact.
- A small quantity may be fatal if swallowed or inhaled.
- Irritation to eyes, skin and mucous membranes.
- Toxic to aquatic life with long lasting effects.
- Toxic to bees and wildlife.
- **Flammable:** Do not store or spray near open flames and sparks.
- Store under lock and key in a cool, dry, well-ventilated place in the original container, tightly closed.
- Store away from food, feeds, seed, fertilizers and other agricultural remedies.
- Keep out of reach of children, uninformed persons and animals.
- Re-entry: Do not enter treated area within 2 days after treatment, unless wearing protective clothing.
- **In case of poisoning call a doctor immediately 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 climatic and storage conditions, quality of dilution water, compatibility with other substances not indicated on the label and the occurrence of resistance of the pests 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

- Avoid inhalation of the vapour or spray mist, during mixing and spraying of the product.
- Avoid contact with eyes, skin or clothing.

- Wear full protective clothing, a suitable respirator, rubber gloves and boots when handling the product, preparing the spray mixture and during application.
- Wash with soap and water after use and after accidental skin contact.
- Wash contaminated clothing after use.
- Do not eat, drink or smoke whilst mixing or applying or before washing hands and face and change of clothing.
- Prevent drift of spray mist onto other crops, grazing, rivers, dams or areas not under treatment.
- Clean the applicator thoroughly after use and dispose of wash water where it will not contaminate crops, food, grazing, rivers and dams.
- **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 third of that of the container. Add the rinsing to the contents of the spray tank before destroying the container in the described manner.
- Destroy the empty container by perforation and flattening.
- **Never** re-use the empty container for any other purpose.
- Prevent contamination of food, feeds, drinking water and eating utensils.

SYMPTOMS OF HUMAN POISONING

Oxamyl is a carbamate compound, which inhibits cholinesterase. Systemic effects may begin within a few minutes or several hours of exposure. Symptoms may include nausea, vomiting, diarrhoea, abdominal cramps, headache, vertigo, tightness of the chest, anxiety, ocular pain, ciliary muscle spasm, blurred vision, small pupils, or mydriasis, lacrimation, salivation, sweating and confusion.

In severe cases, there may be bradycardia, hypotension, pulmonary oedema, convulsions, coma and death from respiratory failure or cardiac arrest. Exposure to high levels of **Oxamyl** may cause organ damage.

FIRST AID TREATMENT

- **General:** Remove the patient immediately from the source of poisoning to a cool, well-ventilated area and keep him/her calm and reassured. If breathing has stopped, give mechanical artificial respiration (not direct mouth-to-mouth). Qualified personnel should perform administration of oxygen. **Get medical attention immediately.**
- **Inhaled:** Maintain airway and administer oxygen if available. Keep affected person warm and at rest.
- **Skin contact:** Remove contaminated clothing, shoes and leather goods immediately and rinse contaminated body area thoroughly with plenty of soap and cold water, followed by alcohol. Do not rub the skin. Emergency personnel should wear gloves and avoid contamination.
- **Eye contact:** Flush contamination out of eyes with clean lukewarm, gently flowing water for at least 20 minutes, while holding eyelid(s) open. If present, remove contact lenses after five (5) minutes and continue rinsing. Take care not to rinse contaminated water into the unaffected eye or on to the face. **Seek medical attention immediately.**
- **Ingestion:** If swallowed, rinse mouth thoroughly with water and immediately get medical attention. If the person is alert and respiration is not depressed, give syrup of Ipecac, followed by water or activated charcoal, if instructed. If vomiting occurs, keep head below hips to prevent aspiration. Establish and maintain airway. **Never** give anything by mouth to an unconscious person.
- **Take the patient to a physician immediately.**

NOTE TO PHYSICIAN

If consciousness level declines or vomiting has not occurred in 15 minutes, empty stomach by gastric lavage. Avoid aminoglycosides and succinylcholine. Phenothiazines, reserpine, theophylline, morphine, Pralidoxime (2-PAM, Protopam) and other oximes are contra-indicated.

Antidote: Administer atropine sulphate intravenously or intramuscularly. In moderately to severe poisoning, administer atropine sulphate, 0.4 to 2.0 mg repeated every 15 minutes, until atropinisation is achieved (dry, flushed skin, dry mouth and tachycardia). Maintain atropinisation by repeated doses for 2 to 12 hours, or longer, depending on the severity of poisoning.

De-activation of STETSON 310 SL solutions:

After use, add 2.5 kg of sodium carbonate per 100 litres **STETSON 310 SL** spray mixture still in the tank, to deactivate excess **Oxamyl**.

RESISTANCE WARNING

STETSON 310 SL is a group code 1A insecticide. Any insect population may contain individuals naturally resistant to **STETSON 310 SL** and other group code 1A insecticides. The resistant individuals can eventually dominate the insect population if these insecticides are used repeatedly. **STETSON 310 SL** or any other group code 1A insecticide may not control these resistant insects.

To delay insecticide resistance:

- avoid exclusive repeated use of insecticides from the same insecticide group code. Alternate or tank mix with products from different insecticide group codes,
- integrate other control methods (chemical, cultural, biological) into insect control programmes.

For specific information on resistance management contact the registration holder of this product.

USE RESTRICTIONS

- **Maize – nematode control:** It is important to refer to the “USE RESTRICTIONS” listed on Mesotrione herbicide labels (e.g. Cantron® 480 SC) if Mesotrione is to be used as a pre- and/or post-emergence herbicide in maize crops where Counter FC 15G® and STETSON 310 SL (organophosphate and carbamate insecticides/nematicides respectively), will be applied for control of nematodes and or other insect pests.
- **Grapevines – snail control:** Prior to application of **STETSON 310 SL**, chase off or remove birds (e.g. ducks, etc.), mammals and other wild life (e.g. tortoises) from the area where **STETSON 310 SL** will be applied.
- **Nematodes controlled excludes *Meloidogyne chitwoodi* and *M. fallax*.**

DIRECTIONS FOR USE: Use only as directed.

- Optimal efficacy of **STETSON 310 SL** will be obtained dilution water with a pH of 5 to 6. Water with a pH higher than 7, should be buffered to pH 5 to 6. Use one of the following adjuvants; **Pazbuff** or **Aquabuff** or **Commodobuff** or **Reverbuff** at the registered rate, to adjust the pH of the water. A buffer must be mixed with the water before the **STETSON 310 SL** is added.
- Optimal systemic activity of **STETSON 310 SL** depends on translocation of the active ingredients inside the treated plant. Reduced efficacy might occur when stress factors such as drought impairs translocation.

APPLICATION RATES

Crop / Pest	Dosage	Remarks
Grapevines Brown snail (<i>Helix aspersa</i>); Dune snail (<i>Theba pisana</i>)	Dormant spray: 2.5 l per ha	IMPORTANT Refer to “USE RESTRICTIONS” above. Apply before bud burst as a single dormant spray to vines when Snails are first noticed. For optimal control, apply when Snails are active (e.g. early morning or under cool, overcast conditions preferably before sunrise). Apply in 200 to 500 litres water per hectare as a directed spray. Do not add other adjuvant types except a buffer, to the spray mixture.
Maize Nematodes	At plant: 66 g / 100 m row Counter FC 15G® Followed post-emergence of crop by: 40 ml / 100 m row STETSON 310 SL	IMPORTANT Refer to “USE RESTRICTIONS” above. Apply Counter FC 15G® during planting of the maize crop. Apply STETSON 310 SL as a foliar application six (6) weeks after full emergence of the crop. Refer to the Counter FC 15G® label for all WARNINGS, USE RESTRICTIONS and DIRECTIONS FOR USE .

Crop / Pest	Dosage	Remarks
Groundnuts Peanut pod nematode (<i>Ditylenchus atricanus</i>)	1.2 ℓ per 100 ℓ water	Apply as a foliar treatment at commencement of peg formation (with Sellie approximately 60 days after planting), in at least 250 litres of spray mixture per hectare. Ensure thorough wetting of the foliage.
Tomatoes Root knot nematodes	<u>Seedbed*</u> : 40 ml per 10 ℓ water	Fumigate the soil with a registered fumigant before planting. Implement the full programme to ensure effective protection against nematode infestations. Drench seedbeds with 2 litres of the spray mixture per m ² of the seedbed surface for 48 to 24 hours, prior to transplanting.
	<u>Seed trays*</u> : 40 ml per 10 ℓ water	Spray seedling trays with 0.5 litres of the spray mixture per m ² of the total seed tray surface, 48 to 24 hours prior to transplanting.
	<u>Foliar application:</u> <u>After transplanting:</u> 800 ml per 100 ℓ water	Apply 250 litres of spray mixture per hectare as a foliar treatment, 2 weeks after transplanting. Repeat after 3 weeks with 500 litres spray mixture per hectare.

* Soil of seedbeds or seed trays must be fumigated with a registered fumigant as usual, against nematodes, prior to sowing.

Crop / Pest	Dosage	Remarks
Potatoes Root knot nematodes (<i>Meloidogyne</i> spp.) & suppression of Aphids	<u>Ground application:</u> 800 ml per 100 ℓ water	Fumigate soil with a registered fumigant, before planting. Apply 250 litres of spray mixture per hectare, 7 days after emergence. Repeat after 4 weeks at a rate of 600 litres of spray mixture, per hectare. In the case of heavy infestations, a further application of 600 litres of spray mixture per hectare must be performed, 3 to 4 weeks after the second spray.
Potato leaf miner (<i>Liriomyza</i> <i>huidobrensis</i>)	<u>Foliar application:</u> 3 ℓ per ha	Ensure thorough coverage of all foliage by applying in 400 to 600 litres water per hectare. Commence application at the first sign of leaf infestation and repeat at intervals of 7 to 14 days. Make use of the shorter interval when continuous high infestation is observed. A minimum of two (2) consecutive applications of STETSON 310 SL are recommended, where after, if needed, it should be alternated with insecticides with a different mode of action. Do not exceed three (3) applications per season or a maximum of 12 litres of STETSON 310 SL per hectare per season. If the spray water has a pH of above 7, it should be buffered to a pH of 5 to 6. However, do not add any other adjuvant types to the STETSON 310 SL spray solution.

Consult all products labels mentioned in this label for **WARNINGS, PRECAUTIONS, USE RESTRICTIONS** and **DIRECTIONS FOR USE**.

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

- **COMMODOBUFF** (L 5390 / N-AR 1107) = **AQUABUFF** (L 5451 / W 130060) = **PAZBUFF** (L 5385) = **REVERBUFF** (L 3008),
- **CANTRON® 480 SC** (L 8365 / N-AR 1323 / W 130651) = **ASTRON® 480 SC** (L 8366) = **CANONNE 480 SC** (L 8735) = **SUNTRON 480 SC** (L 10155) and
- **COUNTER FC 15G®** (L 5571 / N-AR 1082) = **TERBUFOS 15 GR** (L 7186).

AQUABUFF, REVERBUFF, COMMODOBUFF, TERBUFOS 15 GR, CANTRON® 480 SC, COUNTER FC 15G® and/en **SUNTRON 480 SC** are registered products of / is geregistreerde produkte van **Villa Crop Protection (Pty) Ltd.**

PAZBUFF and/en **ASTRON® 480 SC** are registered products of / is geregistreerde produkte van **Universal Crop Protection (Pty) Ltd.**

CANONNE 480 SC is a registered product of / is 'n geregistreerde produk van **Cropasure (Pty) Ltd.**

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