

BEFORE USING THIS PRODUCT READ THE LABEL CAREFULLY!

Herbicide Safener



THEORY 960 EC

Reg. No. L 10494 Act/Wet No. 36 of/van 1947

1: 10/9/2018 – Sept2018

*An emulsifiable concentrate seed treatment product to protect Grain sorghum against the phytotoxic effects of S-metolachlor / metolachlor containing pre-emergence herbicides.*

*'n Emulgeerbare konsentraat saadbehandelingsprodukt wat Graansorghum teen die fitotoksiese effek van S-metolachloor / metolachloor bevattende vooropkoms onkruidodders beskerm.*

ACTIVE INGREDIENT / AKTIEWE BESTANDDEEL

fluxofenim (oxime-ether) 960 g/l fluxofeniem (oksie-eter)



**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](http://www.villacrop.co.za)

UN Number: 3082



HARMFUL  
SKADELIK

Willow Set & Print 011 394-4486



GEBRUIKSAANWYSYNGS INGESLUIT

VERWYS NA BESONDERHEDE  
GEDRUK OP HOUER/SAK

Date formulated:  
Formuleringsdatum:

REFER TO DETAILS PRINTED  
ON CONTAINER/BAG

Batch number:  
Lotnommer:

DIRECTIONS FOR USE ENCLOSED

**THEORY 960 EC**

Reg. No. L 10494 Act/Wet No. 36 of/van 1947

**ACTIVE INGREDIENT / AKTIEWE BESTANDEEL:**

fluxofenim (oxime-ether) / fluxofeniem (oksiem-eter) ..... 960 g/l

Registration holder / Registrasiehouer:

**VILLA CROP PROTECTION (PTY) LTD.**

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

PO Box / Posbus 801, KEMPTON PARK, 1620,

Tel. (011) 396 2233

**WARNINGS**

- Handle with care.
- Poisonous if swallowed.
- Store in the original, tightly closed container in a cool, dry, well-ventilated place.
- Store away from food, feeds, seed and other agricultural chemicals.
- Keep out of reach of children, uninformed persons and animals.
- **Do not feed seed treated with THEORY 960 EC to livestock.**
- In case of poisoning call a physician 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 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 eye and skin contact and inhalation of fumes.
- Wash with soap and water after use or after accidental skin contact.
- Wash contaminated clothing after use.
- Do not eat, drink or smoke while mixing, applying or before washing hands and face or change of clothing.
- Clean application equipment after use. Do not dispose of wash water where it can contaminate other crops, grazing, boreholes, rivers or dams.
- Prevent contamination of food, feeds, drinking water and eating utensils.
- **TRIPLE RINSE** empty containers in the following manner: Invert 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 empty container three times with a volume of clean water equal to one third 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** re-use the empty container for any other purpose.

**SYMPTOMS OF HUMAN POISONING**

This product may cause irritation to eyes, skin or respiratory tract.

**FIRST AID TREATMENT**

If poisoning is suspected: Remove the person from the source of poisoning to a well-ventilated area and keep him/her calm and at rest. Immediately call a physician.

- Skin: Remove contaminated clothing and rinse the contaminated body area thoroughly with non-abrasive or mild detergent and large amounts of water, until no evidence of chemical remains. Do not rub the skin. Get medical attention if irritation occurs and persists.

- **Eyes:** Flush eyes with clean water for at least 20 minutes, occasionally lifting upper and lower lids. If irritation occurs and persists, obtain medical attention.
- **Inhalation:** Remove patient from the source of contamination and keep him/her calm and at rest. Keep air passage open. Get medical attention immediately.
- **Ingestion:** If the person is alert and conscious, immediately give 1 to 2 glasses of water to drink and induce vomiting. Never give anything by mouth to an unconscious person. Apply artificial respiration if necessary.

#### **NOTE TO PHYSICIAN**

No specific antidote is known in case of ingestion. Treat symptomatically. It is recommended to induce emesis or lavage stomach. Based on the acute oral LD<sub>50</sub> to rats, ingestion of 2 tablespoons or more may be fatal to an adult human. Medical conditions likely to be aggravated by exposure: persons with allergy history or pre-existing dermatitis should use extra care in handling this product due to the presence of a small amount of 2-bromomethyl-1,3-dioxolane.

#### **USE RESTRICTIONS**

- Do not use **THEORY 960 EC** on poor quality seed.

#### **DIRECTIONS FOR USE: Use only as directed.**

- **THEORY 960 EC** is applied at 15 ml per 50 kg seed. A seed treatment solution is made by adding 15 ml **THEORY 960 EC** to 235 ml water in order to prepare a final 250 ml seed treatment solution.
- A concrete mixer or off-centre drum with a capacity of 150 to 200 litres is suitable for the treatment of 50 kg seed.
- The efficacy of the treatment may be adversely affected if the concrete mixer or off-centre drum used, is filled to more than half its capacity with seed.

#### **PRODUCT PROPERTIES**

- **THEORY 960 EC** is a seed treatment product which protects grain sorghum against the phytotoxic effects of **S-metolachlor** containing pre-emergence herbicides (**including formulations containing the “old” metolachlor which contains 65 % S-metolachlor isomer**).
- Without a **THEORY 960 EC** seed treatment, products containing **S-metolachlor** (e.g. **Palladium Plus 915 EC, Palladium 960 EC, Palladium Ultra 660 SC, Terbuclear 600 SC**) will cause severe crop injury to Grain sorghum.
- **THEORY 960 EC WILL NOT** provide sufficient protection of Grain sorghum related forage grasses such as Sudan grass, Sudan sorghum crosses or crops other than **Grain sorghum**, against the phytotoxic effects of **S-metolachlor**.

**APPLICATION RATES**

<b>Crop / Use</b>	<b>Dosage Rate</b>	<b>Remarks</b>
<u>Seed Treatment</u>	<p>15 ml <b>THEORY 960 EC</b> per 50 kg seed</p> <p><b>Prepare a seed treatment solution adding 15 ml THEORY 960 EC to 235 ml water in order to prepare a final 250 ml seed treatment solution.</b></p>	<p><b>THEORY 960 EC</b> may be applied to the seed by means of a clean concrete mixer or off-centre drum.</p> <p><b>1. Concrete Mixer:</b> First equilibrate the inside of the mixer by wetting it thoroughly with 250 ml of the seed treatment solution before treating the seed in the mixer.</p> <p>Load 50 kg of seed into the mixer and distribute 250 ml of the seed treatment solution evenly over the seed during rotation. Continue rotation for two (2) minutes until all seed is wetted uniformly.</p> <p>If the seed is not visually uniformly wetted after two (2) minutes, continue with rotation until all seed is uniformly wetted with the solution.</p> <p><b>2. Off-centre drum:</b> If a concrete mixer is not available, an off-centre drum can be used to treat the seed. First equilibrate the inside of the mixer by wetting it thoroughly with 250 ml of the seed treatment solution before treating the seed in the mixer.</p> <p>Load 50 kg of seed into the mixer and distribute 250 ml of the seed treatment solution evenly over the seed by rotating the drum at a constant speed for at least 3 minutes until all the seed is wetted uniformly.</p> <p>If the seed is not visually uniformly wetted after three (3) minutes, continue with rotation until all seed is uniformly wetted with the solution.</p>

**IMPORTANT NOTES**

- Seed should **first** be treated with **THEORY 960 EC** and allowed to dry before being treated with a fungicide/insecticide.
- **THEORY 960 EC** treated seed can be planted as soon as it dried off after treatment. Adequate protection against **S-metolachlor / Metolachlor** will still be obtained.
- Consult the **S-metolachlor / Metolachlor** containing product labels for **WARNINGS, PRECAUTIONS** and **DIRECTIONS FOR USE** on Grain sorghum
- Also refer to the applicable fungicide an insecticide seed treatment labels for mixing, rates and carry-over seed.

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

- **PALLADIUM PLUS 915 EC** (L 9359 / W 1301000) = **PENTIUM PLUS 915 EC** (L 9741) (**S-metolachlor + benoxacor**),
- **PALLADIUM 960 EC** (L 9360 / W 130772) = **PENTIUM 960 EC** (L 9830) (**S-metolachlor**),
- **PALLADIUM ULTRA 660 SC** (L 9922) = **PENTIUM ULTRA 660 SC** (L 9924) (**S-metolachlor + atrazine + benoxacor**) and,
- **TERBUCLEAR 600 SC** (L 10506) = **TERBUGOLD 600 SC** (L 10507) (**S-metolachlor + terbuthylazine**).

**PENTIUM 960 EC** and **PENTIUM PLUS 915 EC**, **PENTIUM ULTRA 660 SC** and/en **TERBUGOLD 600 SC** are registered products of / is geregistreerde produkte van **UNIVERSAL CROP PROTECTION (PTY) LTD.**

**PALLADIUM PLUS 915 EC, PALLADIUM 960 EC, PALLADIUM ULTRA 660 SC** and/en **TERBUCLEAR 600 SC** are registered products of / is geregisteerde produkte van **Villa Crop Protection (Pty) Ltd.**