

GEREUKSAANWYSYNGS INGESLUIT

DIRECTIONS FOR USE ENCLOSED

Batch number: REFER TO DETAILS PRINTED

Lotnummer: ON CONTAINER/BAG

VERWYS NA BESONDERHEDE
GEDRUK OP HOUER/SAK

BEFORE USING THIS PRODUCT READ THE LABEL CAREFULLY!

Insecticide



WEEVILPHOS 560 PELLETS

Reg. No. L 10194 Act/Wet No. 36 of/van 1947

1: 18/12/2016 – May 2018

N-AR 1226

A fumigant for agricultural use for control of commonly occurring insect pests in stored cereals and other products and also in packed commodities and processed foods. Can also be used in grain mills, warehouses and other storage premises.

'n Berokingsmiddel vir landboukundige gebruik vir die beheer van insekplae wat algemeen voorkom in opgebergte graan en ander produkte, asook verpakte en verwerkte voedsel. Kan ook gebruik word in graanmeulens en ander opbergingspersele.

ACTIVE INGREDIENT / AKTIEWE BESTANDDEEL

aluminium phosphide **560 g/kg** aluminiumfosfied

IRAC INSECTICIDE GROUP CODE **24A** IRAC INSEKDODER GROEPCODE



villa
PUBLIC HEALTH

Registration holder / Registrasiehouer:

Villa Crop Protection (Pty) Ltd.

Co. Reg. No. / Mpy. Reg. Nr. 1992/002474/07

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Willow Set & Print 011 394-4486



**TOXIC
GIFTIG**



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VILLA CROP PROTECTION (PTY) LTD.

Co. Reg. No. 1992/002474/07 Mpy. Reg. Nr.

PO Box / Posbus 10413

ASTON MANOR, 1630 Tel. (011) 396 2233

TOXIC**GIFTIG****WARNINGS**

- **WEEVILPHOS 560 PELLETS** should only be handled by adult personnel, who have been well instructed in its use and are familiar with all the precautionary measures.
- **Handle with extreme care. Phosphine gas released by these pellets is toxic to all forms of animal and human life upon inhalation.**
- **Never** bring pellets in direct contact with water or any other liquid.
- Poisonous when inhaled or swallowed.
- Causes moderate skin and mild eye irritation.
- Highly toxic to fish, birds and wildlife.
- **Phosphine** reacts with metals such as copper, copper compounds, gold and silver.
- Store under lock and key in a cool dry, well-ventilated place, away from food and feedstuffs.
- Keep out of reach of children, uninformed persons and animals.
- **Flammable:** Not flammable (but forms flammable gas when in contact with water).
- **In case of poisoning, immediately call a doctor and make this label available to him/her or transfer the patient to a hospital.**

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 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 the event of any uncertainty.

PRECAUTIONS

- Remove top of the container in the open air and do not smoke or eat when handling.
- Do not inhale fumes.
- Avoid eye and skin contact.
- Wear protective overalls, rubber gloves, rubber boots and facemask, or suitable respirator when handling the pellets.
- **WEEVILPHOS 560 PELLETS** fumigations may be carried out without the use of a gas mask and operators will not be exposed to any dangerous concentrations of **Phosphine**, if instructions are followed. Nevertheless, gas masks should always be readily available and should be equipped with a special canister for **Phosphine**. If a strong smell of **Phosphine** is noticed before the charging operation is completed, a gas mask **must** be used.
- **Inhabited buildings should never be fumigated.** If a warehouse is to be fumigated and it is directly connected to an inhabited building, the latter **must** also be evacuated.
- Use a gas mask when handling recently treated grain. The presence of gas can be determined with a gas detector.
- As **Phosphine** reacts with copper, copper compounds, gold and silver, attention should be paid to electrical equipment. It is therefore advisable to protect electric boxes, switches by covering them with plastic or coating of melted paraffin wax.

- Wash with soap and water immediately after use or in the event of accidental skin contact.
- Use total contents of immediate container in one operation if possible. When contents are not fully used, reseal the container and store in a cool dry place.
- Destroy the empty container and **never** re-use for any other purpose.

SYMPTOMS OF HUMAN POISONING

Depending on the amount of **Phosphine** inhaled, symptoms may occur immediately, or late in a lag phase of hours.

A few uncharacteristic symptoms of poisoning by a small quantity would be: Fatigue, buzzing in the ears, pressure in the chest and uneasiness, which might pass in fresh air.

Greater quantities will quickly lead to general fatigue, nausea, stomach-intestine symptoms, with vomiting, stomach-ache, diarrhoea ('food poisoning'), further to disturbance of the equilibrium, strong pains in the chest, and dyspnea.

Very high concentrations rapidly result in strong dyspnea, cyanosis, agitation, ataxia, anoxemia, unconsciousness, and death.

FIRST AID TREATMENT

- Remove the patient from the source of poisoning to a well-ventilated area and keep him/her calm and reassured. Administer manual cardio-pulmonary resuscitation if necessary (not mouth to mouth).
- Skin contact: Remove contaminated clothing and rinse contaminated body area gently and thoroughly with non-abrasive soap and cold water. Do not rub the skin.
- Eye contact: Flush contamination out of eyes with clean water for at least 15 to 20 minutes, holding the eyelid(s) open. Remove contact lenses, if present, after the first 5 minutes then continue rinsing eyes.
- Swallowed: If the product has been swallowed, empty the stomach by self-induced vomiting until the carbide smell is not detected in the vomit. **Seek medical attention immediately.** Administer manual cardio-pulmonary resuscitation if necessary (not mouth to mouth). Never give anything by mouth to an unconscious person.
- **TAKE THE PATIENT IMMEDIATELY TO THE NEAREST PHYSICIAN.**

NOTE TO PHYSICIAN

- Treat symptomatically. In case of swallowing, perform gastric lavage.
- Should hypotension develop, consider the cardiac tonic, Dopamine at 5 to 10 µg/kg/min.
- Complications include:
 - Incipient pulmonary oedema – consider glucocorticoids e.g. 500 to 1000 mg Prednisolone on first day.
 - Progressive lung oedema – give oxygen and by intubation, continuous fluid removal. Counter enzyme-blockage oxygen deficiency by exchange blood transfusion.
 - Renal failure – consider hemodialysis.
 - Watch for hepatic failure, electrocardiac and electrolyte disturbances.
 - Twenty (20) ml of 20% Calcium gluconate plus 1 to 2 g of 10% Sodium thiosulphate I.V. in an adult may also be considered in severe cases.

RESISTANCE WARNING

WEEVILPHOS 560 PELLETS is a group code 24A insecticide. Any insect population may contain individuals naturally resistant to **WEEVILPHOS 560 PELLETS** and other group code 24A insecticides. The resistant individuals can eventually dominate the insect population if these insecticides are used repeatedly. These resistant insects may not be controlled by **WEEVILPHOS 560 PELLETS** or any other group code 24A insecticide.

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.

DIRECTIONS FOR USE: Use only as directed.

- Contact a local representative for specialized assistance.
- **WEEVILPHOS 560 PELLETS** is effective in killing insects in all four life cycles: adult, egg, pupae and larvae.

- **WEEVILPHOS 560 PELLETS** develop into the highly effective phosphine gas (PH_3) when coming into contact with humidity. Phosphine is a gas with a high penetrating power. Phosphine kills all kinds of stored-product pests which are normally found, for example, Grain Weevil, Rice Weevil, Saw-toothed Grain Beetle, Lesser Grain Borer, Khapra Beetle, Cadelle, Indian Meal Moth, Mediterranean Flour Moth and Angoumois Grain Moth.
- The effectiveness of fumigation with **WEEVILPHOS 560 PELLETS** depends on temperature, humidity, dose and exposure time and gas tightness of fumigated area.
- Temperature:
Fumigation of grain at temperatures below 5 °C is **NOT** recommended.
- Humidity and Grain Moisture:
If the humidity around the commodity or the moisture level inside the commodity is low, it is recommended to extend the exposure period.
- Gas tightness and Sealing:
 - Phosphine gas must be present for a certain time in the fumigated space in order to be efficient. Therefore gastight sealing is of absolute importance.
 - Tarpaulin covers must be sealed off properly to the floor with sand snakes.
 - In the case of structural space fumigation, all doors, windows, ventilation shafts and any other opening must be sealed off properly, prior to fumigation.
- Exposure time:
The prescribed minimum exposure period should not be reduced. Longer exposure periods will have no detrimental effect. On the contrary, it can only be advantageous to the result of the fumigation.
- Aeration:
 - Remove all material used for sealing after fumigation period has expired. Open all doors, windows and or related structures to aerate the structure under fumigation.
- Phosphine disperses rapidly, therefore the gas will disperse in a relative short period of time. Aeration must commence for at least 3 hours before people are allowed within the structure.

APPLICATION INSTRUCTIONS

- **WEEVILPHOS 560 PELLETS** can be added mechanically or by hand to grain as it tumbles into silos or bins.
- For all fumigations it is necessary to seal all possible leaks or cover the commodity with gastight polyethylene tarpaulins.
- Gas masks are not normally required but should be on hand, fitted with a canister against **Phosphine** gas in case of an emergency.
- Never enter a fumigated area when the gas concentration exceeds 1 ppm without gas mask (use an appropriate effective gas detector).
- After the required period of fumigation, air thoroughly for 2 to 3 hours by removing all coverings and opening hatches, windows, etc.

PRODUCTS TO BE FUMIGATED WITH WEEVILPHOS 560 PELLETS

- All stored grain commodities, all oilseeds including canola, dried fruit, dried vegetables, dry beans, peas and lentils, dried legumes, seeds, cacao beans, tapioca, cake flour, wheat meal, maize meal, maize grits, rice, pastas, dried animal feed, candy and chocolates, chicory, herbs and spices, macaroni, semolina and other farinaceous products granulated or powdered, all types of seeds for planting and animal feeds, skins and hides.

RECOMMENDATION FOR THE USE OF WEEVILPHOS 560 PELLETS FOR THE CONTROL OF INSECT PESTS IN STORED PRODUCTS

TYPE OF STORAGE AND METHOD OF FUMIGATION	MINIMUM EXPOSURE PERIOD	DOSAGES OF DIFFERENT PRODUCTS			
<u>GRAIN AND OILSEEDS IN BULK STORAGE</u>	See applicable below	<u>Maize, wheat, sorghum, rice, shelled groundnuts and other grain</u>	<u>Barley, oats, rye, buck-wheat</u>	<u>Sunflower seed</u>	<u>Unshelled groundnuts</u>
		Bulk storage mass: 700 to 800 kg per m ³	Bulk storage mass: 600 to 700 kg per m ³	Bulk storage mass: 400 kg per m ³	Bulk storage mass: 300 kg per m ³
<u>ABSOLUTE GASTIGHT SILOBINS*</u> Apply uniformly to the conveyor during intake. Application can be done by hand or through an automatic pellet dispenser. Bins should be filled to capacity in as short a time as possible	14 days	11 pellets per ton	13 pellets per ton	21 pellets per ton	27 pellets per ton
<u>REASONABLY GASTIGHT SILOBINS**</u> Application the same as with "Absolute Silobins"	5 days	30 pellets per ton	35 pellets per ton	56 pellets per ton	75 pellets per ton

* - Absolute gastight silobins can retain a pressure of 50 mm paraffin in an open arm manometer of 22 seconds.

** - Reasonably gastight silobins can retain a pressure of 50 mm paraffin in an open-arm manometer for 10 to 22 seconds.

TYPE OF STORAGE AND METHOD OF FUMIGATION	MINIMUM EXPOSURE PERIOD	DOSAGES OF DIFFERENT PRODUCTS	
<u>EMPTY SILOBIN FUMIGATION</u> Only silobins in which a pressure of not less than 1 kPa will decrease to half that pressure in not less than 30 seconds. Seal the in- and outlet valves as well as inspection holes	Minimum 30 days	1 pellet per 2 m ³	Apply pellets evenly on the bottom of the bin.
<u>FCD and FZ RAILWAY TRUCKS</u> Doors and hatches must be sealed with tape or plastic prior to loading. Apply pellets uniformly during loading or distribute them over the floor of the truck	5 days	1050 pellets per truck for all commodities	<u>IMPORTANT</u> Truck fumigations must be carried out in conjunction with the relevant control board and Transnet in accordance with the Code of Practice lay down by them. Aspects to keep in mind during stack fumigation: a) Determination of the volume of the stack, b) The correct number of pellets for the volume, c) Gas permeability of packing material, d) Gas tightness of stack covering. Consult the local representative for full information.
<u>GRAIN, OILSEEDS AND OTHER FOOD COMMODITIES IN BAGS AND OTHER PACKINGS</u> Apply pellets uniformly over and around the stack and cover the stack with gas-tight tarpaulins. The tarpaulins must be sealed properly	5 days	20 pellets per m ³	Ensure that the bagged commodity is sealed in gas-tight fumigation sheets.

TYPE OF STORAGE AND METHOD OF FUMIGATION	MINIMUM EXPOSURE PERIOD	DOSAGES OF DIFFERENT PRODUCTS	
<u>TOBACCO-RAW AND PROCESSED</u> Raw and processed tobacco in stacks, bales, cases and hogshead. Cover with gastight tarpaulins and seal down	5 days (preferably 8 to 10)	5 pellets per m ³	<u>IMPORTANT</u> NEVER exceed the prescribed dosage. Aspects to keep in mind with space fumigation: - Determination of volume. - The correct number of pellets for the volume. - Gastight sealing is of utmost importance. Consult the local representative for full information.
<u>SPACE FUMIGATIONS FLOOR MILLS, WAREHOUSES AND SHEDS</u> Seal the building or room prior to fumigation	5 days (preferably 8 to 10)	5 pellets per m ³	

VERY IMPORTANT – POST TREATMENT SAFETY

- After fumigation, all commodities intended for immediate handling, especially packed processed food commodities, should be **aerated** thoroughly for a minimum period of two to three hours.
- **Never** enter a fumigated area without a gasmask where a concentration of more than one ppm gas is present. Gas concentration can be measured with an **AUER** or **DRAEGER** gas detector.