

## WARNINGS

**Hazard Statements:** In contact with water releases flammable gases which may ignite spontaneously. Fatal if swallowed or if inhaled. Toxic in contact with skin. Toxic to aquatic life.

- Handle with extreme care. The product should only be applied by well instructed personnel familiar with the potential hazards of fumigation and all necessary measures.
- Precaution on gas: Only to be sold and stored in Aluminium flask.
- Phosphine gas is highly toxic when inhaled. Recently fumigated grain may, upon removal, liberate harmful concentrations of gas.
- Flammable when wet – protect against water.
- Phosphine reacts with copper, copper compounds, gold and silver. Pay special attention to electrical equipment and protect adequately. Container should be resealed immediately and not be left open for any length of time.
- Store under lock and key and out of reach of children, uninformed persons and animals, in a cool, dry well ventilated place.
- **In case of poisoning call a doctor and show him this label.**

**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 and the occurrence of resistance of the pest 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 of for the 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 registration. Consult the supplier in the event of any uncertainty.**

## PRECAUTIONS

### Precautionary Statements

**General:** If medical advice is needed, have product container or label at hand. Keep out of reach of children.

**Prevention:** Handle and store contents under inert gas. Protect from moisture. Do not breathe the gas, dust. Wash hands, forearms and face thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. In case of inadequate ventilation wear respiratory protection.

**Response:** IF SWALLOWED: Immediately call a doctor. IF ON SKIN: Brush off loose particles from skin. Immerse in cool water or wrap in wet bandages. Wash with plenty of soap and water. Call a POISON CENTER, a doctor if you feel unwell. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF exposed or concerned: Call a doctor. Immediately call a poison centre or doctor. Call a doctor if you feel unwell. Specific treatment is urgent (see ANTIDOTE, supplemental first aid instruction on this label). Take off immediately all contaminated clothing and wash it before reuse. In case of fire: Use D-powder, dry sand, carbon dioxide (CO<sub>2</sub>) to extinguish.

**Storage:** Store locked up

**Disposal:** Dispose of contents and container to an approved waste disposal plant.

- Open container only in open air.
- Do not eat, drink or smoke whilst handling this product.
- Prevent contamination of food, feed, drinking water and eating utensils.
- Do not place pellets where it can contaminate other crops, grazing, rivers or dams.
- **CLEAN THE EMPTY ALUMINIUM CONTAINER:** Once all the pesticide formulation is decanted from the container, leave the cap off and place in a secure spot for at least 24 hours to aerate. Thereafter the container should be submerged in a large bucket of cold water and left standing for one hour. Remove the container, shake out all the water and allow it to dry in the sun. Puncture or flatten the container and dispose of it via an aluminium recycler. Do not bury, burn or donate the container to any other parties that may use the container for foodstuffs or beverages.
- Change and wash your work clothes.
- Wash yourself.

## RELEVANT SUBSTANCES

NAME	PRODUCT IDENTIFIER
Aluminium phosphide TC	CAS-No.: 20859-73-8
graphite	CAS-No.: 7782-42-5
ammonium carbonate	CAS-No.: 10361-29-2
paraffin, wax	CAS-No.: 8002-74-2

**RESTRICTED USE AGRICULTURAL REMEDY**

**THIS REMEDY IS RESTRICTED DUE TO ACUTE TOXICITY. THIS REMEDY MAY ONLY BE SOLD TO AND USED BY A REGISTERED PEST CONTROL OPERATOR, OR BY SOMEONE UNDER THE SUPERVISION OF A REGISTERED PEST CONTROL OPERATOR, AND ONLY FOR THOSE USES COVERED BY THE PEST CONTROL OPERATOR'S SCOPE OF REGISTRATION, AND ONLY AS DIRECTED ON THIS LABEL.**

FARM-AG

# ALUMINIUM PHOSPHIDE PELLETS

Reg. No. / Nr L10350 Act No. 36 of 1947/ Wet Nr 36 van 1947

**FUMIGANT**



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

A fumigant insecticide for the control of pests in stored grain, seed, tobacco and storage premises. Can also be used for the control of porcupines, moles, gerbils and other rodents as indicated.

'n Berokingsmiddel insekdoder vir die beheer van plaë in opgebergde graan, saad, tabak en opbergingspersele. Kan ook gebruik vir die beheer van ystervarke, molle, springhaasmuise en ander knaagdiere soos aangedui.

**ACTIVE INGREDIENT/AKTIEWE BESTANDDEEL:**

Aluminium phosphide/Aluminiumfosfied .....560g/kg.....(Inorganic compound/Anorganiese verbinding)



**DANGER**

**Hazard Statements:**

In contact with water releases flammable gases which may ignite spontaneously.  
Fatal if swallowed or if inhaled.  
Toxic in contact with skin.  
Toxic to aquatic life.

**Precautionary Statements:**

Handle and store contents under inert gas. Protect from moisture.  
Do not breathe dust.  
In case of inadequate ventilation wear respiratory protection.  
IF SWALLOWED: Immediately call a doctor.  
IF ON SKIN: Brush off loose particles from skin. Immerse in cool water or wrap in wet bandages.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison centre or doctor.  
IF exposed or concerned: Call a doctor.  
Call a doctor if you feel unwell.

**In case of poisoning, call the following number:  
Poison Information Helpline (24 hrs) 0861 555 777  
Disaster Management Number: Spill Tech 086 100 0366**

Batch No:  
D.O.M:  
D.O.E:  
Net Contents:  
See reverse of packaging for details.

FOR FULL PARTICULARS SEE ATTACHED PAMPHLET.  
VIR VOLLEDIGE BESONDERHEDE KYK AANGEHEGTE ETIKET.

UN No. / VR Nr: 1397



REGISTRATION HOLDER/ REGISTRASIEHOUER  
Cedar Falls Properties 130 (Pty) Ltd  
Reg. Nr.: Reg. No.2006/031383/07  
61 Marshall Drive, Old Mill Industrial Park,  
Mount Edgecombe, South Africa, 4300  
Tel: 031 003 3486



Scan for GHS  
and label details

**BARCODE**

**Symptoms of human poisoning:**

Nausea, headache, vomiting, vertigo, sudden or gradual loss of consciousness, diarrhoea, abdominal pains and pains in the chest. Immediate treatment is imperative.

**FIRST AID TREATMENT:**

- a) Poisoning by inhalation of gas: Remove person from source of poisoning to a well ventilated area and keep him quiet and reassured. Administer manual cardio pulmonary resuscitation if necessary (not mouth-to-mouth). Take patient to a hospital at once.
- b) Poisoning by swallowing: Induce vomiting if the patient is still fully conscious and repeat until vomit ceases to smell of carbide.
- c) Skin and eye contamination: Wash contaminated parts with a gentle stream of water. Do not use other chemicals.

**Note to physician:**

Treat symptomatically. In the case of swallowing, perform gastric lavage. In cases where hypotension develops, consider cardiac tonic Dopamine 5 – 10 µg / kg / min.

**Complications normally are:**

Incipient pulmonary oedema: consider gluco-corticoids e.g. 500 – 1000 mg Prednisolone on first day. Progressive lung oedema: give oxygen and continuously remove fluid by means of intubation. Counter enzyme blockage oxygen deficiency by exchange blood transfusion. Renal failure: consider hemodialysis. Watch for hepatic failure, electrocardiac and electrolyte disturbances. In severe cases in adults, 20 ml of a 20% Calcium glucomate solution plus 1 – 2 g of 10% Sodium thiosulphate (i.v.), may also be considered.

No specific antidote is known.

Pellets develop into the highly effective phosphine gas (PH<sub>3</sub>) when coming into contact with humidity. Phosphine is a gas with a high penetrating power which destroys the adult insects as well as their pre-adult stages (eggs, larvae and pupae) in the grain kernels. Phosphine kills all kinds of stored grain pests which normally found, for example, Grain weevil, Rice weevil, Saw-toothed grain beetle, Lesser grain borer, Khapra beetle, Cadelie, Indian meal moth, Mediterranean flour moth and Angoumois grain moth.

The decomposition of the pellets resulting in the formation of large quantities of phosphine, does not begin before 2 – 3 hours after exposure. The generation of gas is completed after approximately 3 – 6 days.

**MODE OF ACTION**

Insecticide and rodenticide as a spatial fumigant. Respiratory, metabolic and nerve poison. Formulation evolves a non-flammable mixture of phosphine (q.v.), the biologically active species, ammonia and carbon dioxide.

**RESTRICTED USES:** Use only as indicated

The product should only be applied by well instructed personnel familiar with the potential hazards of fumigation and all necessary measures.

**Application:**

Pellets should be added to the grain stream at short, even intervals as it enters the silo. The pellets can be added at the chute as the grain enters the silo. It is imperative that the pellets be distributed as evenly as possible throughout the bulk of grain. Pellets should be added mechanically with an automatic pellet dispenser or by hand wearing rubber gloves. The quantity of pellets needed should be calculated prior to application. If possible, use up contents of container in one operation. Containers not completely emptied, must be thoroughly re-sealed and stored in a cool, dry place.

Normally respirators are not required but should be on hand with special canisters against phosphine gas in case of an emergency. Never enter fumigated space when the concentration exceeds 1 p.p.m. without a suitable respirator. Phosphine has a strong carbide smell. The presence or absence of gas is to be determined with a gas detector, e.g. Auer or Draeger detector.

**Airing:**

Phosphine is a gas with a high volatility and it therefore disappears within a relatively short time. All coverings and sealings have to be removed for airing. For a quick airing, the windows and entrance hatches can be opened in the silo. As a safety measure a minimum airing of 2 – 3 hours must be observed before fumigated space can be entered again.

## Recommendation for control of moles, porcupines, gerbils and other rodents:

### 1. Moles:

**Dosage:** 5 pellets per hole.

Remarks: **FARM-AG ALUMINIUM PHOSPHIDE PELLETS** should be applied in the morning as moles are generally rather inactive at this time of the day. Avoid all unnecessary noise and movement while treating the holes because moles are easily altered, and the smell of the gas will cause them to block their tunnels and thus escape death. All burrows in a given area, e.g. garden must be treated simultaneously. Mole heaps must be carefully removed to expose the tunnel entrance. Ensure the tunnel is not blocked by soil. Place five **FARM-AG ALUMINIUM PHOSPHIDE PELLETS** deep into the tunnel. Seal the hole by stuffing a ball of crumpled newspaper into the hole, cover with moist soil and stamp down firmly. Any new mole heaps appearing the follow morning must be treated.

**Note:** Moles can travel long distances underground at night and may enter from neighbouring gardens. In cases of heavy infestations, a few may escape death and their activity may be noticed the following day. Treat as many holes as possible at the same time.

### 2. Porcupines:

**Dosage:** Place 5 **FARM-AG ALUMINIUM PHOSPHIDE PELLETS** per hole.

Remarks: Ascertain that the hole is active by smoothing the soil surrounding the entrance to the burrows and observing any fresh footprints the next morning. Place 5 **FARM-AG ALUMINIUM PHOSPHIDE PELLETS** as deep down the hole as possible. Cover the entrance and seal with soil. Inspect the hole the following morning.

### 3. Gerbils

**Dosage:** Place 5 **FARM-AG ALUMINIUM PHOSPHIDE PELLETS** per hole.

Remarks: Block all the holes to the burrow in the field. This may be done by shallow discing of the area. The following morning place 5 **FARM-AG ALUMINIUM PHOSPHIDE PELLETS** approximately 0,5 m deep into each furrow which was opened during the night. Seal the hole by stuffing a ball of crumpled newspaper into the hole, cover with soil and tramp down. Best time for control is the forenoon before the gerbils become active in the evening. Check the burrows the following day and treat any which have been dug open again.

### 4. Rabbits, field rats and mice

**Dosage:** At least 5 pellets per hole depending on size of burrow.

Remarks: Other rodents may be successfully controlled with **FARM-AG ALUMINIUM PHOSPHIDE PELLETS**, the essence of control being that the pests come in contact with the gas and remain exposed to it for a sufficient length of time for the gas to kill them. Rodents vary in their habits and thus the method must be adapted to suit the circumstances in each individual case. The suggested dosage rate is 5 **FARM-AG ALUMINIUM PHOSPHIDE PELLETS** per hole, but may vary with the size of the burrow.

## 5. CEREAL GRAINS AND OIL SEEDS – BULK STORAGE:

Method of storage and directions for applications.	Maize, wheat, sorghum, rice, other cereal grains and shelled groundnuts (mass bulk of $\pm 700 - 800 \text{ kg/m}^3$ )	Barley, oats, rye and buck weed (mass bulk of $\pm 600 - 700 \text{ kg/m}^3$ )	Sunflower seeds (mass bulk of $\pm 400 \text{ kg/m}^3$ )	Unshelled groundnuts (mass bulk of $\pm 300 \text{ kg/m}^3$ )	Minimum exposure time
Absolutely gas tight silos *. Administer on the conveyor belt while grain is being loaded into silo. Silo must be filled in shortest possible time.	11 pellets / t	13 pellets / t	21 pellets / t	27 pellets / t	14 days
Reasonable gas tight silos **. Administer on conveyor belt while grain is being loaded into silo. Silo must be filled in shortest possible time.	30 pellets / t	35 pellets / t	56 pellets / t	75 pellets / t	5 days

<b>FGD and FZ railway trucks.</b> Trucks must be made gastight beforehand. The fumigation may only be undertaken in conjunction with the shipper concerned and the Transnet.	1050 pellets per truck for all commodities.	5 days
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#### 6. Cereal grains, oil seeds and other food commodities – bagged

<b>Method of storage and directions for application</b>	<b>Dosage</b>	<b>Minimum exposure time</b>
Bagstacks Spread evenly over and around stack. Stacks must be made gastight with plastic sheets.	20 pellets / m <sup>3</sup>	5 days

#### 7. Tobacco – raw and processed

<b>Method of storage and directions for application</b>	<b>Dosage</b>	<b>Minimum exposure time</b>
Only for fumigation in stacks, bales and cases	5 pellets / m <sup>3</sup> (do not exceed dosage)	4 days (preferably 8 – 10 days)

#### 8. Empty stores, silos, etc.

<b>Directions for application</b>	<b>Dosage</b>	<b>Minimum exposure time</b>
Seal prior to fumigation. Spread evenly over floor area.	3-5 pellets / m <sup>3</sup>	5 days

#### 9. Empty bags:

<b>Directions for application</b>	<b>Dosage</b>	<b>Minimum exposure time</b>
Under gastight tarpaulins or in gastight chambers. Spread evenly over and around the bag stacks	15 - 20 pellets / m <sup>3</sup>	5 days

\* Silos that can maintain a pressure of 50 mm paraffin in an open arm manometer for longer than 22 seconds

\*\* Silos that can maintain a pressure of 50 mm paraffin in an open arm manometer for between 10 and 22 seconds.



## WAARSKUWINGS:

**Gevaarstellings:** In kontak met water, stel vlambare gasse vry wat spontaan kan ontbrand. Dodelik indien ingesluk of ingeasem word. Giftig in kontak met die vel. Giftig vir waterlewe.

- Hanteer uiters versigtig. Die produk behoort slegs toegedien te word deur goed opgeleide personeel, wat bekend is met die gevare van beroking en al die nodige maatreëls van toepassing.
- Voorsorgmaatreëls op gas: Mag slegs verkoop en gestoor word binne in 'n Aluminium fles.
- Fosfiede gas is uiters giftig wanneer ingeasem. Onlangs berookte graan mag, wanneer dit verwyder word, skadelike konsentrasie van gas vrylaat.
- Korrels is giftig wanneer ingesluk.
- Ernstige asemhalingsirritasie of branderigheid.
- Fosfiede reageer op koper, kopersamestellings, goud en silwer. Beton spesiale aandag aan elektriese toerusting en beskerm dit behoorlik. Die houer behoort weer onmiddellik geseël te word en nie oopgelaat word vir 'n lang periode van tyd nie.
- In geval van vergiftiging moet mediese dokter geraadpleeg word en die etiket moet aan hom getoon word.

**Alhoewel hierdie middel omvattend onder 'n groot verskeidenheid toestande getoets is, waarborg die registrasiehouer nie dat dit doeltreffend sal wees onder alle toestande nie aangesien die werking en effek daarvan beïnvloed kan word deur faktore soos abnormale klimaats- en bergingstoestande; en die voorkoms van weerstand van die siekte teen verenigbaarheid met ander stowwe wat nie op die etiket aangedui is nie en die voorkoms van teen die betrokke middel sowel as die metode, tyd en akkuraatheid van toediening. Verdermeer aanvaar die registrasiehouer nie verantwoordelikheid vir skade aan gewasse, plantegroei, die omgewing of vir nadelige effek op mens of dier of vir gebrek aan prestasie van die betrokke middel as gevolg van die versium van die gebruiker om etiket aanwysings te volg of as gevolg van die ontstaan van toestande wat nie voorsien kon word in die registrasie. Raadpleeg die verskaffer in die geval van enige onsekerheid.**

## VOORSORGMAATREËLS

### Voorsorgstellings

**Algemeen:** Indien mediese advies benodig word, hou produkhouer of etiket byderhand. Hou buite bereik van kinders.

**Voorkoming:** Hanteer en stoor inhoud onder inerte gas. Beskerm teen vog. Moenie gas of stof inasem nie. Was hande, voorarms en gesig deeglik na hantering. Moet nie eet, drink of rook wanneer hierdie produk gebruik word nie. Gebruik slegs buite of in 'n goed geventileerde area. Dra beskermende handskoene/beskermende klere/oogbeskerming/gesigbeskerming. Dra asemhalingsbeskerming in geval van onvoldoende ventilasie.

**Reaksie:** INDIEN INGESLUK: Ontbied onmiddellik 'n dokter. INDIEN OP DIE VEL: Was met baie seep en water. INDIEN INGESAEM: Verwyder persoon na vars lug en hou gemaklik om asem te haal. INDIEN blootgestel of bekommerd: Ontbied 'n dokter. Bel dadelik 'n gifsentrum of dokter. Bel 'n dokter as jy onwel voel. Spesifieke behandeling is dringend (sien teenmiddel, aanvullende noodhulpinstruksies op hierdie etiket). Trek onmiddellik alle gekontameneerde klere uit en was dit voor hergebruik. In geval van brand: Gebruik D-poeier, droë sand, koolstofdiksied (CO<sub>2</sub>), droë bluspoeier om te blus.

**Berging:** Stoor toegesluit.

**Wegdoening:** Gooi inhoud en houer weg na 'n goedgekeurde afvalverwyderingsaanleg.

- Maak houer oop in die opelug.
- Moet nie eet, drink of rook terwyl die produk hanteer word nie.
- Voorkom besoedeling van voedsel, voer, drinkwater en eetgereedskap.
- Moenie korrels plaas waar dit ander gewasse, weivelde, riviere of damme besoedel nie.
- Vernietig die lêë houer. Moenie dit vir enige ander doeleindes gebruik nie.
- **MAAK DIE LEE ALUMINIUMHOUER SKOON:** Sodra al die plaagdoderformulering uit die houer gedekanteer is, los die doppie af en plaas dit op 'n veilige plek vir ten minste 24 uur om te lug te kry. Daarna moet die houer in 'n groot emmer koue water gedompel word en vir een uur staan. Verwyder die houer, skud al die water uit en laat dit in die son droog word. Prik of maak die houer plat en gooi dit weg deur 'n aluminium herwinner. Moet nie die houer begrawe, verbrand of skenk aan enige ander partye wat die houer vir voedsel of drank mag gebruik nie.
- Trek ander klere aan en was jou werksklere.
- Was jouself.

**RELEVANTE STOWWE:**

NAAM	PRODUK IDENTIFISEERDER
Aluminiumfosfied TS	CAS-Nr.: 20859-73-8
Grafiet	CAS-Nr.: 7782-42-5
Ammoniumkarbonaat	CAS-Nr.: 10361-29-2
Paraffien, was	CAS-Nr.: 8002-74-2

**Simptome van menslike vergiftiging:**

Naarheid, hoofpyn, braking, duiseligheid, skielike of geleidelike verlies van bewussyn, diarree, buikpyn en pyn in die bors. Onmiddellike behandeling is noodsaaklik.

**NOODHULPBEHANDELING:**

- Vergiftiging deur inaseming van gas:** Verwyder persoon van die bron van vergiftiging na 'n goed geventileerde area en hou hom/haar stil en gerusgestel. Dien kardio-long resussitasie toe indien nodig kunsmatig (nie mond-tot-mond). Neem pasiënt dadelik na hospitaal.
- Vergiftiging wanneer ingesluk:** Veroorsaak braking indien die pasiënt nog by sy/haar volle bewussyn is en herhaal totdat die braking ruik na kardiëd.
- Vel en oog besoedeling:** Was besoedelde dele met 'n sagte stroom water. Moenie ander chemikalieë gebruik nie.

**Nota aan geneesheer:**

Behandel simptome. In die geval waar produk ingesluk is, moet maagspoeling uitgevoer word. In gevalle waar hipotensie ontwikkel, oorweeg kardiëse tonikum Dopamine 5 – 10 µg / kg / min.

**Komplikasies is gewoonlik soos volg:**

Aanvanklike longembolisme: oorweeg glukose-kortikosteroïede bv. 500 – 1000 mg Prednisoloon op die eerste dag. Progressiewe longembolisme: gee suurstof en verwyder die vog voortdurend deur middel van intubasie. Om die ensieme blokkasie van suurstoftekkert teen te werk deur 'n bloedoortapping. Nierversaking: oorweeg hemodialise. Wees op die uitkyk vir lewerversaking, veranderinge in die elektriese geleiding van die hart en elektroliet versteurings. In ernstige gevalle by volwassenes, 20 ml of 'n 20% Kalsium glukonaatoplossing plus 1 – 2 g van 10% Natrium tiosulfaat (i.v.), mag ook oorweeg word.

Geen spesifieke teenmiddels is bekend nie.

Korrels ontwikkel in hoogs effektiewe fosfiedgas (PH3) wanneer dit in kontak kom met vogtigheid. Fosfied is 'n gas met 'n hoë indringende krag wat volwasse insekte asook hul voor-volwasse stadiums vernietig (eiers, larwes en papies) in die graanpit. Fosfied maak alle soorte gestoorde graanplae wat normaalweg voorkom, byvoorbeeld Graankalender, Rys kalender, Saagtand graankewer, Kleingraanboorder, Khapprakewer, Cadelle, Indiese meelmot, Mediterreense meelmot en Angoumose graanmot dood.

Die ontbinding van die korrels het tot gevolg die vorming van groot hoeveelhede fosfied, wat nie voor 2 – 3 ure na blootstelling begin nie. Die ontwikkeling van gas is voltooi na ongeveer 3 – 6 dae.

**WYSE VAN AKSIE:**

Insekdoder en knaagdierdoder as 'n ruimtelike berokingsmiddel. Respiratoriese, metaboliese en senuweegif. Formulering ontwikkel 'n nie-vlambare mengsel van fosfien (q.v.), die biologies aktiewe spesie, ammoniak en koolstofdiksied.

**BEPERKTE GEBRUIK:** Gebruik slegs soos voorgeskryf

Die produk behoort slegs toegepas te word deur goed opgeleide personeel wat bekend is met die potensiele gevare van beroking en al die noodsaaklike maatreëls

**Toediening:**

Korrels behoort toegevoeg te word tot die graanstroom teen kort, eweredige intervalle soos dit die silo binnegaan. Die korrels kan bygevoeg word deur die stortgeut soos die graan die silo binnegaan. Dit is noodsaaklik dat die korrels so eweredig as moontlik versprei word regdeur die lading graan. Korrels behoort meganies met 'n outomatiese korrelverspreider of per hand terwyl rubberhandskoene gedra word, bygevoeg te word. Die hoeveelheid korrels benodig behoort bereken te word voor toediening. Indien moontlik, gebruik die inhoud van die houër op in een

handeling. Houers wat nie heeltemal leeg is nie, moet deeglik herseël word en op 'n koel en droë plek geberg word. Normaalweg is gasmaskers nie nodig nie maar behoort beskikbaar te wees met spesiale gasflesse teen fosfied gas in geval van 'n noodgeval. Moet nooit 'n berookte area betree wanneer die konsentrasie 1 p.p.m.oorskrei sonder 'n geskikte gasmasker nie. Fosfied het 'n sterk kardië reuk. Die teenwoordigheid of afwesigheid van gas moet bepaal word deur 'n gas verklikker, bv. Auer of Draeger verklikker.

#### **Belugting:**

Fosfied is 'n gas met 'n hoë vlugtigheid en daarom verdwyn dit in 'n relatiewe kort tydperk. Alle bedekkings en digtingsringe moet verwyder word vir belugting. Vir vinnige belugting, kan die vensters en ingangsluuke van die silo oopgemaak word. As 'n veiligheidsmaatreël moet 'n minimum belugting van 2 – 3 ure toegelaat word voordat die berookte spasie binnegegaan word.

Aanbevelings vir die beheer van molle, ystervarke, nagmuise en ander knaagdiere.

#### **1. Molle:**

**Dosis:** 5 korrels per gat.

**Opmerkings:** **FARM-AG ALUMINIUM PHOSPHIDE KORRELS** behoort in die oggend toegedien te word omdat die molle gewoonlik onaktief gedurende hierdie tyd van die dag is. Vermoed alle onnodige geraas en beweging terwyl die gate behandel word omdat molle maklik gewaarsku word en die reuk van die gas sal veroorsaak dat hulle die opening van die tunnel sal blok en sodoende die dood vryspring. Alle gate in 'n gegewe area, byv. Tuin moet tegelykertyd behandel word. Molshope moet versigtig verwyder word om die tonnelopening te kan sien. Verseker dat die tunnel nie deur grond geblok word nie. Plaas vyf **FARM-AG ALUMINIUM PHOSPHIDE KORRELS** diep in die tunnel. Seël die gat deur die opening toe te maak met 'n bal gekreukelde koerantpapier, bedek met klam grond en trap op die grond sodat dit ferm is. Indien enige nuwe molshope die volgende oggend te voorskyn kom, moet dit ook behandel word.

**Nota:** Molle kan deur die nag ver afstande beweeg, en hulle kan van die bure se tuin inkom. In gevalle van hoë infestasië, mag 'n paar dalk ontsnap en hulle aktiwiteite sal die volgende dag sigbaar wees. Behandel soveel as moontlik in die nag. Maak die ingang toe en seël dit.

#### **2. Ystervarke:**

**Dosis:** Plaas 5 **FARM-AG ALUMINIUM PHOSPHIDE KORRELS** per gat.

**Opmerkings:** Verseker dat die gat aktief is deur die grond rondom die gat se ingang toe te hou en kyk of daar enige vars voetspore is die volgende oggend. Plaas 5 **FARM-AG ALUMINIUM PHOSPHIDE KORRELS** so diep as moontlik in die gat. Maak die ingang toe en seël dit met grond. Die volgende oggend moet die gat geïnspekteer word.

#### **3. Nagmuis**

**Dosis:** Plaas 5 **FARM-AG ALUMINIUM PHOSPHIDE KORRELS** per gat.

**Opmerkings:** Blok al die gate na die tunnel in die veld. Dit kan gedoen word deur oppervlakkige ploeg van die area. Plaas 5 **FARM-AG ALUMINIUM PHOSPHIDE KORRELS** die volgende oggend, ongeveer 0,5 m diep binne in elke tunnel wat deur die nag oopgemaak was. Seël die gat deur die opening toe te maak met 'n bal gekreukelde koerantpapier, bedek met klam grond en trap daarop. Beste tyd vir beheer is voormiddag voordat die nagmuise aktief begin raak in die aand. Gaan kyk na die gate die volgende oggend en behandel die wat weer oopgegrawe is.

#### **4. Hase, veldrotte en muise**

**Dosis:** Ten minste 5 korrels per gat afhange van die grootte van die tunnel.

**Opmerkings:** Ander knaagdiere mag suksesvol beheer word deur **FARM-AG ALUMINIUM PHOSPHIDE KORRELS**, die belangrikste beheermaatreël is dat die peste in aanraking kom met die gas en blootgestel bly daaraan vir 'n genoegsame hoeveelheid tyd vir die gas om hulle dood te maak. Knaagdiere verskil in hulle gewoontes en daarom moet die metode aangepas word om by die omstandighede te pas by elke individuele geval. Die voorgestelde dosis is 5 **FARM-AG ALUMINIUM PHOSPHIDE KORRELS** per gat, maar dit mag verskil afhange van die grootte van die tunnel.

## 5. BROODGRAAN EN OLIESADE – MASSA BERGING:

Metode van berging en toedienings aanwysings.	Mielies, koring, sorghum, rys, ander brood graan en uitgedopte grondboontjies (massa vrag van $\pm 700 - 800 \text{ kg/m}^3$ )	Gars, hawer, rog en bokwiet (massa vrag van $\pm 600 - 700 \text{ kg/m}^3$ )	Sonneblom saad(massa vrag van $\pm 400 \text{ kg/m}^3$ )	Onuitgedopte grondboontjies (massa vrag van $\pm 300 \text{ kg/m}^3$ )	Minimum blootstellingstyd
Absolute digte gas silos *. Dien toe op die transportband terwyl die graan gelaai word in die silo. Die silo moet binne die kortste moontlike tyd gevul word.	11 korrels / t	13 korrels / t	21 korrels / t	27 korrels / t	14 dae
Redelik digte gas silos **. Dien toe op die transportband terwyl graan gelaai word. Die silo moet binne die kortste moontlike tyd gevul word.	30 korrels / t	35 korrels / t	56 korrels / t	75 korrels / t	5 dae
<b>FGD en FZ spoortrokke.</b> Trokke moet gasdig gemaak word voor gebruik. Die beroking mag slegs gedoen word in samewerking met die skipper betrokke sowel as Transnet.	1050 korrels per vrag vir alle kommoditeite.				5 dae

## 6. Ontbytgraan, oliesade en ander voedsel kommoditeite – in sakke verpak

Metode van berging en aanwysings vir toediening	Dosis	Minimum blootstellingstyd
Sak stapels Versprei eweredig oor en om die stapels. Stapels moet gasdig gemaak word met plastiese velle.	20 korrels / m <sup>3</sup>	5 dae

## 7. Tabak – rou en ongeproseerd

Metode van berging en aanwysings vir toediening	Dosis	Minimum blootstellingstyd
Slegs vir beroking in stapels, bale en kaste	5 korrels / m <sup>3</sup> (moenie die dosis oorskry nie)	4 dae (verkieklik 8 – 10 dae)

## 8. Leë store, silos, ens.

Aanwysings vir toediening	Dosis	Minimum blootstellingstyd
Seël voor beroking. Versprei eweredig oor die hele vloerarea.	3-5 korrels / m <sup>3</sup>	5 dae

## 9. Leë sakke:

Metode van berging en aanwysings vir toediening	Dosis	Minimum blootstellingstyd
Onder gasdigte seile of in gasdigte kelders. Versprei eweredig oor en om die sak stapels.	15-20 korrels / m <sup>3</sup>	5 dae

\* Silos wat 'n druk van 50 mm parafien in 'n oop arm manometer vir langer as 22 sekondes kan hanteer

\*\* Silos wat 'b druk van 50 mm parafien in 'n oop arm manometer vir tussen 10 en 22 sekondes kan hanteer.



**RESTRICTED USE AGRICULTURAL REMEDY**

**THIS REMEDY IS RESTRICTED DUE TO ACUTE TOXICITY. THIS REMEDY MAY ONLY BE SOLD TO AND USED BY A REGISTERED PEST CONTROL OPERATOR, OR BY SOMEONE UNDER THE SUPERVISION OF A REGISTERED PEST CONTROL OPERATOR, AND ONLY FOR THOSE USES COVERED BY THE PEST CONTROL OPERATOR'S SCOPE OF REGISTRATION, AND ONLY AS DIRECTED ON THIS LABEL.**

FARM-AG

# ALUMINIUM PHOSPHIDE PELLETS

Reg. No. / Nr L10350 Act No. 36 of 1947/ Wet Nr 36 van 1947

**FUMIGANT**



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

A fumigant insecticide for the control of pests in stored grain, seed, tobacco and storage premises. Can also be used for the control of porcupines, moles, gerbils and other rodents as indicated.

'n Berokingsmiddel insekdoder vir die beheer van plaë in opgebergde graan, saad, tabak en opbergingspersele. Kan ook gebruik vir die beheer van ystervarke, molle, springhaasmuise en ander knaagdiere soos aangedui.

**ACTIVE INGREDIENT/AKTIEWE BESTANDDEEL:**

Aluminium phosphide/Aluminiumfosfied .....560g/kg.....(Inorganic compound/Anorganiese verbinding)

**Hazard Statements:**

In contact with water releases flammable gases which may ignite spontaneously.  
Fatal if swallowed or if inhaled.  
Toxic in contact with skin.  
Toxic to aquatic life.

**Precautionary Statements:**

Handle and store contents under inert gas. Protect from moisture.  
Do not breathe dust.  
In case of inadequate ventilation wear respiratory protection.  
IF SWALLOWED: Immediately call a doctor.  
IF ON SKIN: Brush off loose particles from skin. Immerse in cool water or wrap in wet bandages.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison centre or doctor.  
IF exposed or concerned: Call a doctor.  
Call a doctor if you feel unwell.

**In case of poisoning, call the following number:  
Poison Information Helpline (24 hrs) 0861 555 777  
Disaster Management Number: Spill Tech 086 100 0366**



**DANGER**

Batch No:  
D.O.M:  
D.O.E:  
Net Contents:  
See reverse of packaging for details.

FOR FULL PARTICULARS SEE ATTACHED PAMPHLET.  
VIR VOLLEDIGE BESONDERHEDE KYK AANGEHEGTE ETIKET.

UN No. / VR Nr: 1397



REGISTRATION HOLDER/ REGISTRASIEHOUER  
Cedar Falls Properties 130 (Pty) Ltd  
Reg. Nr.: Reg. No. 2006/031383/07  
61 Marshall Drive, Old Mill Industrial Park,  
Mount Edgecombe, South Africa, 4300  
Tel: 031 003 3486



Scan for GHS  
and label details

**BARCODE**

101046

165(H) x 140(W) mm

CYAN

MAG

YEL

BLK

101046