



## Grainfos Grainguard / Graanbeskermer

REG. NO. L4620 Act 36/1947  
Namibian Reg. No. N-AR 0590

REG. NR. L4620 Wet 36/1947  
Namibiese Reg. Nr. N-AR 0590

AN EMULSIFIABLE CONCENTRATE FOR THE CONTROL OF STORED PRODUCT PESTS IN BULK STORED MAIZE AND SORGHUM AND IN BAGGED GROUNDNUTS, SUNFLOWER AND SOYBEANS.

'N EMULGEERBARE KONSENTRAAT VIR DIE BEHEER VAN INSEKPLAE IN OPBERGDE LOSMAAT MIELIES, SORGHUM, ASOOK GRONDBONE, SONNEBLOM EN SOJABONE IN SAKKE.

### ACTIVE INGREDIENTS: / AKTIEWE BESTANDELE:

Pirimiphos-methyl (organophosphate) .....500 g/l..... Pirimifos-metiel (organofosfaat)

NETTO CONTENTS: / NETTO INHOUD: Contact supplier for available packaging sizes/ Kontak verskaffer vir beskikbare verpakking groottes.

### REGISTRATION HOLDER: / REGISTRASIEHOUER:

Coopers Environmental Science (Pty.) Ltd. / (Edms.) Bpk.  
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Batch no: / Lotnommer:

Date manufactured / Datum vervaardig:



### **WARNINGS:**

Do not apply to wheat, oats, barley and rye.

HANDLE CONCENTRATE WITH CARE.

Poisonous when swallowed or absorbed through the skin. May irritate skin and eyes.

Keep out of reach of children, uninformed persons and animals.

Toxic to fish and birds. Store away from food and feedstuffs.

### **PRECAUTIONS:**

Do not breathe spray mist. Avoid repeated or prolonged skin contact.

Wash thoroughly after application.

Rinse empty container three times with a volume of water equal to at least one tenth of that of the container and add the rinsing's to the contents of the spray tank before disposing of the container.

Destroy empty container and do not re-use for any other purpose.

### **DIRECTIONS FOR USE: USE ONLY AS DIRECTED.**

#### 1. Direct application to maize and sorghum in bulk storage

- a) To control confused flour beetle, saw-toothed grain beetle, rust red flour beetle, rice weevil, Indian meal moth, flat grain beetle, tropical warehouse moth, Mediterranean meal moth, maize weevil.
- b) Dilute immediately before use with pure clean drinking water. Add 3 l/ 100 l water.
- c) The diluted material is applied according to the following calculation to give a deposit of 8 ppm pirimiphos-methyl on grain.

$$\frac{\text{Grain flow in kg/h} \times 85}{55\ 000} = \dots \text{ ml/ 10 sec.}$$

- d) Apply by spraying evenly to grain stream as grain is loaded or turned into final storage.
- e) It is essential that the sprayer has a recirculation system.
- f) Three liters of concentrate will treat approximately 185 metric tons or 2 500 bags of maize when applied according to the above formula.

#### 2. Treatment of bagged maize, sorghum, groundnuts, sunflower and soybeans

- a) To prevent re-infestation of insect free (fumigated) bagged commodities by flour beetle, rice weevil, saw-toothed grain beetle, Indian meal moth, tropical warehouse moth, Mediterranean meal moth, flat grain beetle, maize weevil, granary weevil by treating outside of bags.
- b) Initial treatment: 6 ml/ m<sup>2</sup>. This deposit can be obtained, depending on delivery rate of spray apparatus and speed of application as follows:  
High pressure sprayers: Add 600 ml/ 20 l water and apply to 100 m<sup>2</sup> of bag surface.  
Knapsack sprayers: Add 600 ml/ 10 l water and apply to 100 m<sup>2</sup> bag surface.
- c) Repeat application monthly: 3 ml/ m<sup>2</sup>. This deposit can be obtained, depending on delivery rate of spray apparatus and speed of application as follows:  
High pressure sprayers: Add 300 ml/ 20 l water and apply to 100 m<sup>2</sup> bag surface.  
Knapsack sprayers: Add 300 ml/ 10 l water and apply to 100 m<sup>2</sup> of bag surface.

#### 3. Residual surface spraying

- a) For treating surfaces in elevators, walls, floors, machinery, lorry beds, railway trucks, ship's holds, inside bins and around the outside of bins and elevators to control pests named under 1 (a). Spray before loading or filling.
- b) Initial treatment: 6 ml/ m<sup>2</sup>. This deposit can be obtained, depending on delivery rate of spray apparatus and speed of application as follows:  
High pressure sprayers: Add 600 ml/ 20 l water and apply to 100 m<sup>2</sup> of bag surface.  
Knapsack sprayers: Add 600 ml/ 10 l water and apply to 100 m<sup>2</sup> of bag surface.
- c) Spray diluted mixture to surface to the point of runoff.
- d) Repeat treatment at monthly intervals or when necessary to keep infestation under control at the rate of 3 ml/ m<sup>2</sup>. This deposit can be obtained, depending on delivery rate of spray apparatus and speed of application as follows:  
High pressure sprayers: Add 300 ml/ 20 l water and apply to 100 m<sup>2</sup> surface.  
Knapsack sprayers: Add 300 ml/ 10 l water and apply to 100 m<sup>2</sup> of surface.

#### 4. Treatment of stored seed maize

To prevent the re-infestation of insect free (fumigated) stored seed maize by grain insects named in 1 (a), a deposit of 15 mg/kg pirimiphos-methyl is recommended on the seed maize. To obtain this deposit, dilute 3 ml concentrate with 1 l of a registered fungicide registered for the purpose of seed treatment and apply to 100 kg seed. Application must conform to the requirements of the Plant Improvement Act 53/1976.

For any product enquiry, contact Coopers Environmental Science (Pty) Ltd - 011 979 4246/7. For poisoning emergencies only, Griffon Poison Information Centre may also be contacted - 082 446 8946.

### **WAARSKUWINGS:**

Moet nie aanwend op koring, hawer, gars en rog nie.

### **HANTEER KONSENTRAAT VERSIGTIG.**

Giftig indien ingesluk, ingeasem of deur die vel geabsorbeer word. Kan vel en oë irriteer.

Hou buite bereik van kinders, oningeligte persone en diere.

Giftig vir visse en voëls.

Moenie naby voedsel en voedselware bewaar nie.

### **VOORSORGMATREËLS:**

Moet nie spuitmiddel inasem nie. Voorkom herhaalde of langdurige aanraking met die vel. Was deeglik na aanwending.

Spoel leë houer drie keer met ten minste een tiende van die inhoud van die houer. Gooi die uitspoelwater by die inhoud van die spuitkan voordat die houer vernietig word. Vernietig leë houer en moet nie vir enige ander doel gebruik nie.

### **GEBRUIKSAANWYSINGS: GEBRUIK SLEGS SOOS AANGEDUI.**

#### **1. Direkte aanwending op mielies en sorghum in losmaat opberging**

- a) Vir die beheer van malkopkewer, saagtandgraankewer, roesrooimeelkewer, ryskalander, graanskuurkalander, Indiese meelmot, platgraankewer, tropiese graanskuurmot, Middellandse meelmot, mieliekalander.
- b) Verdun onmiddellik voor gebruik met suiwer skoon drinkwater. Voeg 3 l/ 100 l water.
- c) Die verdunde mengsel, wanneer toegedien volgens hierdie berekening, sal 'n neerslag gee van 8 dpm pirimifos-metiel op graan.  
$$\frac{\text{Graanvloei in kg/h} \times 85}{55\ 000} = \dots \text{ ml/ 10 sek.}$$
- d) Wend aan deur eweredig te spuit op graanstroom wanneer graan gelaai of wanneer finaal geberg word.
- e) Dit is noodsaaklik dat die spuit 'n hersirkulasiestelsel het.
- f) Drie liter konsentraat sal ongeveer 185 metrieke ton of 2 500 sakke mielies behandel, wanneer toegedien volgens bostaande formule.

#### **2. Behandeling van mielies, sorghum, grondbone, sonneblom en sojabone in sakke**

- a) Vir die voorkoming van herbesmetting van insekvrye (berookte) kommoditeite in sake deur meelkewers, ryskalander, saagtandgraankewer, platgraankewer, Indiese meelmot, Middellandse meelmot, tropiese graanskuurmot, graanskuurkalander, mieliekalander, deur behandeling van die buitekant van die sakke.
- b) Eerste behandeling: 6 ml/ m<sup>2</sup>. Hierdie neerslag kan verkry word afhangende van die lewering van die spuitapparaat soos volg:  
Hoëdruk spuite: Voeg 600 ml/ 20 l water en wend aan per 100 m<sup>2</sup> sakoppervlakte.  
Rugsak spuite: Voeg 600 ml/ 10 l water en wend aan per 100 m<sup>2</sup> sakoppervlakte.
- c) Herhaal behandeling maandeliks: 3 ml/ m<sup>2</sup>. Hierdie neerslag kan verkry word, afhangende van die lewering van die spuitapparaat soos volg:  
Hoëdruk spuite: Voeg 300 ml/ 20 l water en wend aan per 100 m<sup>2</sup> sakoppervlakte.  
Rugsak spuite: Voeg 300 ml/ 10 l water en wend aan per 100 m<sup>2</sup> sakoppervlakte.

#### **3. Nawerkende oppervlakbespuiting**

- a) Vir die behandeling van oppervlaktes in graansuiers, mure, vloere, masjinerie, vragmotorbakke, spoorwegtrokke, skeepsruime, binne in bakke en om die buitekant van bakke en graansuiers om graanplae wat onder 1 (a) is, te beheer. Behandel voor inlaai of opvulling.
- b) Eerste behandeling: 6 ml/ m<sup>2</sup>. Hierdie neerslag kan verkry word afhangende van die lewering van die spuitapparaat soos volg:  
Hoëdruk spuite: Voeg 600 ml/ 20 l water en wend aan per 100 m<sup>2</sup> oppervlakte.  
Rugsak spuite: Voeg 600 ml/ 10 l water en wend aan per 100 m<sup>2</sup> oppervlakte.
- c) Spuit verdunde mengsel oor oppervlakte totdat dit begin afloop.

- d) Herhaal behandeling maandeliks of wanneer nodig om besmetting onder beheer te hou teen 'n dosis van 3 ml/ m<sup>2</sup>. Hierdie neerslag kan verkry word afhangende van die lewering van die spuitapparaat soos volg:  
Hoëdruk spuite: Voeg 300 ml/ 20 l water en wend aan per 100 m<sup>2</sup> oppervlakte.  
Rugsak spuite: Voeg 300 ml/ 10 l water en wend aan per 100 m<sup>2</sup> oppervlakte.

#### 4. Behandeling van opgebergde saadmielies

Vir die voorkoming van herbesmetting van insekvrue (berookte) opgebergde saadmielies deur graaninsekte genoem onder 1 (a) word 'n neerslag van 15 mg/kg pirimifos-metiel op die saadmielies aanbeveel.

Om die neerslag te verkry, verdun 3 ml konsentraat met 1 l van 'n swamdoder geregistreer vir saadbehandeling en dien toe op 100 kg saad. Toediening moet voldoen aan die vereistes van Plantverbeterings Wet 53/1976.

Vir enige produk navrae, skakel Coopers Environmental Science (Pty) Ltd - 011 979 4246/7. Slegs vir vergiftigingsnoodgevallen kan Griffon Gif Inligtingsentrum ook gekontak word - 082 446 8946.