

BEFORE USING THIS PRODUCT, READ AND UNDERSTAND THE LABEL.

PRECAUTIONS:

1. Handle with care. Poisonous by swallowing, inhalation and contact with skin.
2. Wash hands after use.
3. **KEEP APART FROM WATER, FOOD AND FOODSTUFFS.**
4. **KEEP IN A SAFE PLACE OUT OF REACH OF CHILDREN.**
5. Store in original packaging in a cool, dry place and **KEEP UNDER LOCK AND KEY.**
6. **PACKAGING DISPOSAL:** Triple rinse packaging. Perforate packaging to make it unsuitable for further use or burn it and bury crushed packaging or ashes in a recommended disposal pit in a secure location away from water sources or arable land. **DO NOT** use empty packaging for any other purpose.
7. **RE-ENTRY - DO NOT** enter treated area until spray deposit has dried unless wearing protective clothing.

SYMPTOMS OF POISONING:

Symptoms may include: a flu-like feeling, coughing, sneezing, nausea, vomiting, sweating, blurred vision, salivation, difficulty in breathing and giddiness.

FIRST AID:

1. **INHALATION:** If inhaled, remove affected person from source of poisoning to a well-ventilated area with plenty of fresh air and keep him/her quiet and reassured.
2. **EYES:** Flush out contaminated eyes with clean water for not less than 15 minutes.
3. **SKIN:** Carefully remove any contaminated clothing and wash affected parts with soap and water. **DO NOT** rub the skin.
4. **SWALLOWING:** Rinse out mouth with water and give water to drink. **DO NOT** induce vomiting. **DO NOT** apply mouth to mouth resuscitation.

NOTE TO PHYSICIAN / TREATMENT:

Atropine 1-4 mg intramuscularly every 10-15 minutes until signs of atropinisation occur (dry, flushed skin and tachycardia) and then, 2 mg at 30-minute intervals. Alternatively Pralidoxime (P25 or PAM) may be given, 1 g by intramuscular or intravenous injection over 5-10 minutes. Oxygen and artificial respiration may be necessary. No sedative should be given.

DIRECTIONS FOR USE: USE ONLY AS DIRECTED.

MAIZE STORCHER, STALK BORER AND FALL ARMY WORM

HAND APPLICATION: Apply 3-4kg/ha of granules by hand, with gloves, into the funnel of the maize plants. One pinch of granules is enough for two plants.

TIME OF APPLICATION:

1. Scout weekly from 2 - 7 weeks after plant emergence by inspecting at least 100 plants at random per hectare. Apply 7 - 10 days after 2.5 % or more plants are found with eggs or immediately when 5 % of the plants show shot hole damage on the leaves or as soon as the leaves become spotted or young caterpillars are seen.
2. Re-application of ECOTEREX GRANULES may be necessary after 10 - 14 days if re-infestation occurs, especially when the egg-laying period is extended.
3. Application of ECOTEREX GRANULES to the funnel must be made before the larvae migrate from the funnel and enter the stalk. **HARVEST INTERVAL:** Allow 14 days between application and harvest.

COMPATIBILITY

When applying ECOTEREX 0.5 GR, DO NOT mix with any other crop chemical.

WARRANTY:

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; compatibility with other substances not indicated in the label and 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 or for lack of performance of the remedy concerned due to failure to 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.

TO CAUSE A HAZARD IN THE USE, STORAGE OR DISPOSAL OF THIS SUBSTANCE IS AN OFFENCE

BATCH:

MANU. DATE:

EXPIRY DATE:



SHUMBA GROUP

ECOTEREX

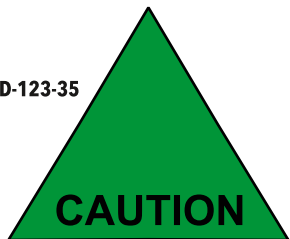
FALL ARMYWORM INSECTICIDE 0.5GR

FOR THE CONTROL OF FALL ARMYWORM AND MAIZE STALK BORER IN MAIZE AND SORGHUM

REG. NO.

17-D-110-63-D-123-35

2 kg



HARMFUL IF SWALLOWED

COMPOSITION	MASS/VOLUME
DELTA METHRIN	0,1 % m/m
PIRIMIPHOS METHYL	0,4 % m/m
CHEMICAL GROUP	PYRETHROID
DELTA METHRIN	ORGANOPHOSPHATE
PIRIMIPHOS METHYL	

FOR AGRICULTURAL USE ONLY. A GRANULAR STOMACH AND CONTACT INSECTICIDE FOR THE CONTROL OF MAIZE STALK BORER (Busseola fusca) AND FALL ARMYWORM (Spodoptera frugiperda) IN MAIZE AND SORGHUM.



**QUESTIONS? COMMENTS ?
CALL US ON 086 7700 0329**

YAMBIRO

1. MUSHONGA UYU UNOGONA KURUYA KANA UCHINGE WADIYWA.
 2. GEZA MAOKO AKO NESIPO KANA WAPEDA KUUSHANDISA.
 3. USABATANIDZA NZEVEKUDYA, PAUNORONGEDZWA.
 4. CHENGETERA MUSHONGA UYU KURE NEVANA VADUKU, PAVASINGASVIKIRE
 5. CHENGETA MUSHONGA URI PANOVHARIKA NEKIYI, URI MUSAQA RAWO.
 6. CHERA GOMBA UTORE MAPEPA EKUPUTIRA UYU MUSHONGA, UFUSIRE MAPEPA AYU MUGOMBA IRI.
- ZVIRATIDZO ZVEKUKUVAZWA NEMUSHONGA UYU**
Hapana zviratidzo zvechivhere zvinzivinzwana.

RUBATSIRO

1. Kana munhu akadya mushonga uyu netaona, **SHEVEDZA CHIREMBA MOMURATIDZA BEPA IRI.**
2. Kana munhu uyu achakasvinura, musaita kuti Geza zve mukanwa nemvura yakawanda.

KUNA CHIREMBA

Tarisai zviratidzo zvechivhere morapa sekuona kwenyu.

MASHANDISIROWO AWO

CHIBABE

Isa makilogram (kg) matauta kana mana emushonga uyu pahectare imwe, panguva yaunoono kuti mashizha echibabe ava kurumwa nerukonye. Nokora mushonga uyu nezivungwe zvako zvirivi woisa pamwoyo chaipo pechibabe, kwete mudzinde macho. Mushonga waunoonora ukonwana pamazinde maviri echibabe. Shandisa ruoko rwako pfeka girivishi. Mirira kukohwa chibabe kwemavhiki anopfura maviri kubva pazuva rekuisa mushonga.

KUSANGANISA

Pakusa ECOTEREX 0.5 GR, usasanganise nemimwe mishonga.

QAPHELA

1. WUPHATHE NGONANZELELO- UYINGOZI UNGAGINYWA.
2. GEZA IZANDIJA NGENWA KOKUSEBENZISA UMUTHI LO.
3. UNGAWUBEKI DUZE LOKUDLIYAWO.
4. UBEKE ENSIHTHA LAPHO OKUNGAFIKELI KHONA ABANTWANA.
5. UNGAZVAVUKUPHUPHA ESAKANI LAWO NJALO HIALA UWUKHUYE.
6. NXA USUPHELELE GOBELA AMAPHEPHA AYABE EGOELE UMUTHI LO.

UKUKSETSHENZISWA KWAWO ENHLANWEINI EMUJINI

Ungabona umubho usule nhlavane gqoka amaglovishi oncwbenje ngenimwe embili uvuzule enhliziyweni yomubho. Umuthi oncwbenzileyo uyelena inhlanga zomubho ezimbili. AmaKILOGRAM (KG) amathathu kusiya kwamane sebenza ku HECTARE elilodwa. Ngemva kokusebenzisa umuthi lo, hiala amaviki amabili ungakavuni.

IZIBONAKALISO ZOKULINYAZWA NGUMUTHI LO

Akula zibonakaliso zokugula nxa ulinyazwe ngumuthi lo

ISAZISO KU DOKOTELA

Hloa isigulane ubusisulapha ngendlela oyibona ifanele.

USIZO NXA KUNGABA LENGOZI YOKUGINYWA

KOMUTHI LO

1. Nxa kebele lengozi yokuginywa kumbe ukudliwa kwalo umuthi kumbe **KUBONWE UDOKOTELA MASINYANA ATSHENGISWE IPHEPHA LELE.**

2. Nxa umuntu owuginyileyo engaqalekanga, atshenziswe. Xubha ngamanzi amanengi.

UKHULANGANISWA

Nxa usebenzisa i ECOTEREX 0.5 GR ungajihlanganisi lemimye imithi.



SHUMBA GROUP
PROTECT • CARE • INNOVATE

MANUFACTURED BY ECOMED MANUFACTURING MARKETING AND DISTRIBUTED BY ECOMARK LTD
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Harare, Zimbabwe
Tel: +263 (242) 486119/127/134/146
VOIP: +263 86 7700 0329



An EcoMed Group Company

EcoMed Manufacturing

MATERIAL SAFETY DATA SHEET

ECOTEREX[®] 0.5% Granules

EFFECTIVE DATE: 31 August 2018

1. IDENTIFICATION OF PRODUCT & SUPPLIER

Product name: Ecotex[®] 0.5% Granules
Appearance: Reddish brown free flowing granules
Odour: Faint characteristic odour
Other names: EcoFarm Stalkborer Granules
MSDS Number: 2
Date revised: 31 August 2018

Chemical Family: Organophosphate + Pyrethroid insecticide

Supplier: Ecopharm Ltd, RAFA House, 19 Bucks Rd, Douglas, Isle of Man, 1MI.
British Isles

Manufacturer: EcoMed Manufacturing (Pvt) Ltd, 2 Falcon Street, Belmont, Bulawayo,
Zimbabwe. Tel - +263 9 460575

Contact: Graeme Reid. Mobile: +263 772234584. Email: cropchem@ecommed.co.zw

2. HAZARDS IDENTIFICATION

Does not require a hazard warning label but the normal safety precautions for handling of pesticides/chemicals must be observed.

3. COMPOSITION/INFORMATION ON ACTIVE INGREDIENTS

Ingredients	CAS Number	Concentration (g/Kg)
Pirimiphos Methyl	29232-93-7	0.4
Deltamethrin	52918-63-5	0.1
Inert ingredients		99.5



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MATERIAL SAFETY DATA SHEET

Ecoterex[®] 0.5% Granules

Date of Issue: 31 August 2018

4. FIRST AID MEASURES

If accidental poisoning occurs, immediately contact a doctor and show them either this MSDS or the label.

First Aid Measures:

Inhalation: If inhaled, remove affected person from source of poisoning to a well ventilated area with plenty of fresh air and keep him/her quiet and reassured.

Eyes: Flush out contaminated eye/s with clean water for not less than 15 minutes.

Skin: Carefully remove any contaminated clothing and wash affected parts with soap and water. Do not rub the skin.

Swallowing: Rinse out mouth with water and give water to drink. Do not induce vomiting. Do not apply mouth to mouth resuscitation.

Symptoms: Symptoms may include: a flu-like feeling, coughing, sneezing, nausea, vomiting, sweating, blurred vision, salivation, difficulty in breathing and giddiness.

Note to Physician: Atropine 1-4 mg intramuscularly every 10-15 minutes until signs of atropinisation occur (dry, flushed skin and tachycardia) then, 2 mg at 30 minute intervals. Alternatively, Pralidoxime (P25 or PAM) may be given, 1 g by intramuscular or intravenous injection over 5-10 minutes. Oxygen and artificial respiration may be necessary. No sedatives should be given.

5. FIRE FIGHTING MEASURES

Extinguishing Non-flammable.

Media:

Hazards from combustion: Does not produce hazardous reaction.



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EcoTerex[®] 0.5% Granules

Date of Issue: 31 August 2018

6. ACCIDENTAL RELEASE MEASURES

Avoid contact with spilled material or contaminated surfaces. When dealing with a spillage do not eat, drink or smoke and wear protective clothing. Deal with all spillages immediately. Warn the local authority of any accidental unavoidable contamination of drains, streams or watercourses.

7. HANDLING AND STORAGE

Handling: Keep out of reach of children. Avoid contact with eyes.

Storage: Store in original container in a cool, dry, well-ventilated area. Keep away from food, drink and animal feeds. Keep out of direct sunlight and avoid frost.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: No special ventilation is required, as the product is not volatile.

Personal Protective Equipment: Plastic disposable gloves and nose mask are recommended but not necessary.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Reddish brown free flowing granules

Odour: Faint characteristic odour.

Vapour pressure: $<5.0 \times 10^{-4}$ Pa at 25⁰C

Boiling point: N/A

Formulation: Granule

Solubility: N/A

Stability: No significant change in active ingredient content at 54 +/- ⁰C for 14 days.

Flammability: Non-flammable.



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10. STABILITY AND REACTIVITY

Chemical stability: Stable under normal conditions.

Conditions to avoid: None documented.

**Hazardous
Polymerization:** Will not occur.

Incompatibility: Do not mix with other insecticides or fertilizers.

**Hazardous
Decomposition
Products:** Not available.

11. TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS

All persons under advice by medical practitioner not to work with organophosphates should not handle this product as it may interfere with their blood cholinesterase activity due to the organophosphate content.

Inhalation: Inhalation is unlikely to occur if used in a well-ventilated area.

Skin contact: Irritating. Contact with the skin, especially the face, may result in temporary burning sensations.

Eye contact: Slight irritant.

Ingestion: Harmful if swallowed.



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EcoTerex® 0.5% Granules

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ANIMAL TOXICITY – PRODUCT AND ACTIVE INGREDIENT

Acute:

Oral toxicity: LD₅₀ rat: 135 (deltamethrin tech) mg/kg
>1180 (Pirimiphos methyl tech) mg/kg
>2000 (Formulation) mg/kg

Dermal toxicity: LD₅₀rat: >2000 mg/kg (formulation)
LD₅₀ rabbit: >2000 mg/kg

Inhalation toxicity: >5.22 mg/L for 4 hrs.

Skin irritation (Rabbit): Mild irritant.

Eye irritation (Rabbit): Mild irritant.

Sensitization: Non-sensitizer.

Chronic:

Deltamethrin and Pirimiphos methyl are not mutagenic, carcinogenic or teratogenic.

12. ECOLOGICAL INFORMATION

Deltamethrin is highly toxic to fish, aquatic organisms and bees in laboratory studies, but considered less toxic under natural conditions.

Fish toxicity: Formulation: Toxic to fish

Daphnia toxicity: No data available.

Toxicity to algae: No data available.

Toxicity to birds: Deltamethrin: LD₅₀: >5,000 mg/kg duck; Pirimiphos methyl: 1695 mg/kg
Deltamethrin: LD₅₀: >10,000 mg/kg quail; Pirimiphos methyl: 140 mg/kg

Toxicity to bees: Deltamethrin found to be highly toxic in lab studies but considered less toxic under natural conditions.

Environmental fate: Deltamethrin and pirimiphos methyl are not persistent in the environment.

Persistence and Degradation: It is destroyed by soil microorganisms and does not leave residues or build up in the food chain.



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13. DISPOSAL CONSIDERATIONS

Rinse empty containers three times before disposal. Add rinsing to treatment mixture. If not recycling empty containers, break, crush or puncture them and bury in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots.

14. TRANSPORTATION

UN number: Not applicable.

Class risk: Not classified as dangerous goods.

15. REGULATORY INFORMATION

Registered in Zimbabwe, Mozambique and Zambia.

16. OTHER INFORMATION

Trademark Information: EcoTerex[®] 0.5% GR is a registered trademark of Ecopharm Ltd

This MSDS summarises our best knowledge of health and safety hazard information of the product and how safely to handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

END OF MSDS