

# XTERMINATOR™

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

REG. No MWIPCB/2024/1195

## CONTACT INSECTICIDE

A suspension concentrate contact and stomach insecticide for the control of biting and stinging insects on crops as listed.



GROUP

3

INSECTICIDE



### HAZARD STATEMENTS:

- May be fatal if swallowed and enters airways
- Causes skin irritation
- May cause an allergic skin reaction
- Toxic to aquatic life with long-lasting effects

### PRECAUTIONARY STATEMENTS:

- Wash hands thoroughly after handling
- Do not eat, drink or smoke when using this product
- Use only outdoors or in a well-ventilated area
- Avoid release to the environment
- Wear protective gloves/protective clothing/eye protection/face protection
- Use personal protective equipment as required
- Use personal protective equipment as required

## ACTIVE INGREDIENTS

Natural Pyrethrins

7.5 g/ℓ

### SEE CONTAINER FOR:

NET MASS / BATCH NO. / MANUFACTURING DATE

### REGISTRATION HOLDER:

Agro Organics (Pty) Ltd.

REG. No 2000/005499/07

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GRIFFON POISON INFO CENTRE +27 82 446 8946

### DISTRIBUTED BY:

Farmers Organisation Ltd.

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TEL



### WARNINGS

- MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS
- CAUSES SKIN IRRITATION
- MAY CAUSE AN ALLERGIC SKIN REACTION
- TOXIC TO AQUATIC LIFE WITH LONG-LASTING EFFECTS
- DO NOT USE MORE THAN 3 TIMES IN A ROW NOR 10 TIMES A YEAR ON SAME LOCATION

### PRE-HARVEST INTERVAL (PHI)

- Berries: 0 days
- Brassica: 2 days
- Cucurbits: 0 days
- Cereals: 0 days
- Citrus: 0 days
- Grapes: 0 days
- Guavas: 0 days
- Leafy vegetables: 2 days
- Olives: 2 days
- Pomefruit: 0 days
- Stonefruit: 0 days
- Tomatoes: 0 days

**DISCLAIMER:** 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 the 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 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 OR REGISTRATION HOLDER IN THE EVENT OF ANY UNCERTAINTY**

### PRECAUTIONS

- KEEP/STORE AWAY FROM CLOTHING/COMBUSTIBLE MATERIALS.
- WASH HANDS THOROUGHLY AFTER HANDLING.
- DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT.
- USE ONLY OUTDOORS OR IN A WELL-VENTILATED AREA.
- AVOID RELEASE TO THE ENVIRONMENT.
- WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION.
- USE PERSONAL PROTECTIVE EQUIPMENT AS REQUIRED.
- **IF SWALLOWED:** IMMEDIATELY CALL A POISON CENTER OR DOCTOR/PHYSICIAN.
- **IF SWALLOWED:** RINSE MOUTH. DO NOT INDUCE VOMITING.
- **IF ON SKIN (OR HAIR):** REMOVE/TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH WATER [OR SHOWER].
- Clean applicator after use and dispose of water where it will not contaminate rivers, dams, grazing, and crops
- Empty all pesticides from the container by placing it upside down over the spray tank and holding it there for at least 30 seconds
- Triple rinse statement:
  - Fill with one-quarter of clean water
  - Shake for 30 seconds
  - Decant into spray tank for 30 seconds
- **NEVER USE THE CONTAINER FOR ANY OTHER PURPOSE.** Puncture the rinsed container to render it useless and send it to a CropLife SA-approved recycler. PET containers cannot be recycled and must be incinerated after cleaning

### RELEVANT SUBSTANCES

- Sweet orange oil > 30 %; Pyrethrum > 1 %; Potassium hydroxide < 1 %.

### FIRST AID

- Most important symptoms and effects, both acute and delayed:
  - Inhalation: May cause respiratory irritation
  - Ingestion: May be harmful if swallowed
  - Skin Contact: Causes skin irritation
  - Eye Contact: May cause eye irritation
- **IN CASE OF INHALATION:**  
Remove person into fresh air, if not breathing, give artificial respiration. Seek medical attention if you feel unwell.
- **IN CASE OF SKIN CONTACT**  
Wash off with soap and plenty of water for at least 15 minutes. Seek medical attention if irritation occurs.
- **IN CASE OF EYE CONTACT**  
Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses after the initial 1-2 minutes

and continue flushing. Seek medical attention if irritation occurs.

- **IN CASE OF INGESTION**

Seek medical attention. Do NOT induce vomiting unless directed to do so by a doctor. Never give anything by mouth to an unconscious person. Seek medical attention if you feel unwell.

### RESISTANCE WARNING STATEMENT

- Avoid exclusive, repeated use of insecticides from the same insecticide group code (**XTERMINATOR™**) belongs to group code 3A). Alternate with products from different insecticide group codes.
- Integrate control methods (cultural and biological) into insect control programs. Consult the distributor in the event of any uncertainty or contact **Rovensa Next SSA** on resistance management.

### MODE OF ACTION

- Pyrethrum has a narcotic action on insects. **XTERMINATOR™** is formulated to allow the insect to recover from narcosis to allow the insect to emerge from cover when the d-limonene action will inflict death. (Chinch bug application – post-harvest). **XTERMINATOR™** is formulated to minimize damage to beneficial insects and by application intervals of more than 5 days, many will recuperate.

### DIRECTIONS FOR USE

- USE ONLY AS DIRECTED

### COMPATABILITY

- This product may not be mixed with other agrochemicals

### MIXING INSTRUCTIONS

- **SHAKE CONTAINER THOROUGHLY** before adding to spray tank
- Use clean water with pH 6-7. Stir the water in the spray tank when **XTERMINATOR™** is added and agitate during application. Use the mixture on the same day

# COMMODITY AND PEST

## BERRIES

BLUEBERRIES, BLACKBERRIES, CRANBERRIES, DEWBERRIES (INCLUDING BOYSENBERRY AND LOGANBERRY), GOOSEBERRIES, RASPBERRIES, BLACKCURRANTS, CURRANTS

### APPLICATION RATE

500 ml per 100 l water

Aphids (*Aphis gossypii*, *Chaetosiphon fragaefolii*, *Myzus persicae*), Thrips (*Frankliniella occidentalis*), Spotted Maize Beetle (*Astylus atromaculatus*) Gooseberry Beetle (*Lema daturaphila*), Snoutbeetles and Weevils (*Eremnus atratus*, *E. horticola*, *E. setulosus*, *Phlyctinus callosus*, *Sciobius tottus*) and Flies.

Foliar short of run-off  
Target insect wetting  
Not more than three 5-day intervals  
PHI: 0 days

## BRASSICA

BRUSSELS SPROUTS, BROCCOLI, CABBAGE (INCLUDING ALL VARIETIES), CAULIFLOWER, COLLARDS, KALE, KOHLRABI, PAKCHOI

### APPLICATION RATE

500 ml per 100 l water

Begrada Bug (*Bagrada hilaris*), Green Vegetable Bug (*Nezara viridula*), Aphids (*Brevicoryne brassicae*, *Lipaphis pseudobrassicae*, *Myzus persicae*), Cabbage Flea Beetle (*Phyllotreta capicola*, *P. masonana*) Potato Snout Beetle (*Sciobius horni*) and Flies.

Foliar short of run-off  
Target insect wetting  
Not more than three 5-day intervals  
PHI: 2 days

## CUCURBITS

BUTTERNUTS, CANTALoupES, CUCUMBERS, GHERKINS, GOURDS, MELONS, MUSK MELONS, PATTY PANS, PUMPKINS, SQUASHES [INCLUDING SUMMER AND WINTER SQUASHES], WATERMELON, ZUCCHINI

### APPLICATION RATE

500 ml per 100 l water

Aphids (*Aphis fabae*, *A. gossypii*, *Macrosiphum euphorbiae*, *Myzus persicae*), Thrips (*Frankliniella occidentalis*, *Thrips tabaci*), Ladybird Beetles (*Henosepilachna bifasciata*, *H. hirta*), Leaf Beetles (*Asbecesta cyanipennis*, *Diacanth fenestrata*, *Leptaulaca fissicollis*, *Prosmidia conifera*, *Sonchia sternalis*) and Flies.

Foliar short of run-off  
Target insect wetting  
Not more than three 5-day intervals  
PHI: 0 days

## CEREAL

CEREAL GRAINS (BARLEY, OATS, RYE, WHEAT)

### APPLICATION RATE

500 ml per 100 l water

Chinch Bug (*Macchiademus diplopterus*, *Nysius natalensis*), Begrada Bug (*Bagrada hilaris*) Maize Leafhopper (*Cicadulina mbila*), Aphids (*Diuraphis noxia*, *Metopolophium dirhodum*, *Rhopalosiphum padi*, *R. maidis*, *Schizaphis graminum*, *Sitobion avenae*), and Flies.

Foliar short of run-off  
Target insect wetting  
Not more than three 5-day intervals  
PHI: 0 days

**CITRUS**

GRAPEFRUITS OR POMELOS, LIMES, MANDARINS [INCLUDING CLEMENTINES, NAARTJIES, SATSUMAS AND TANGERINES], ORANGES AND TANGELOS

**APPLICATION RATE**

Leafhopper (*Empoasca distinguenda*, *Epignoma natalensis*), Shield Bugs (*Antestiopsis*, *Nezara viridula*), White Flies (*Aleurocanthus spiniferus*, *A. zizyphi*, *A. woglumi*, *Aleurothrixus floccosus*), Aphids (*Aphis gossypii*, *A. spiraeola*, *Toxoptera aurantii*), Mealybugs (*Deltoctococcus aberiae*, *Ferrisia virgata*, *Nipaecoccus viridis*, *Paracoccus burnerae*, *P. citri*, *Pseudococcus calceolariae*, *P. longispinus*), Thrips (*Heliothrips haemorrhoidalis*, *Scirtothrips auranti*), Blue-Green Citrus Nibbler (*Colaspomoma fulgidum*), Fuller's Rose Beetle (*Pantomorus cervinus*) and Flies.

500 ml per 100 l water

Foliar short of run-off  
Target insect wetting  
Not more than three 5-day intervals  
PHI: 0 days

**POST HARVEST**

Chinch Bug (*Macchiademus [Blissus] diplopterus*)

500 ml per 100 l water

Submerge for 120 seconds  
PHI: 0 days

**GRAPES**

Krompokkel (*Plangia graminea*), Grapevine Leafhopper (*Acia lineatifrons*, *Mgenia fuscovaria*), Mealybugs (*Planococcus ficus*, *Heliothrips sylvanus*), Beetles (*Eremnus atratus*, *E. cerealis*, *E. chevrolati*, *E. setulosus*, *Naupactus leucoloma*, *Phylctinus callosus*, *Sciobius tottus*, *Tanyrhynchus carinatus*), Chinch Bug (*Macchiademus [Blissus] diplopterus*) and Flies.

**APPLICATION RATE**

500 ml per 100 l water

Foliar short of run-off  
Target insect wetting  
Not more than three 5-day intervals  
PHI: 0 days

**GUAVAS**

Coconut Bug (*Pseudotheraptus wayi*), Mealybugs (*Planococcus citri*), Common Fruit Chafer (*Pachnoda sinuata*) and Flies.

**APPLICATION RATE**

500 ml per 100 l water

Foliar short of run-off  
Target insect wetting  
Not more than three 5-day intervals  
PHI: 0 days

**LEAFY VEGETABLES**

ENDIVE, BEET, LETTUCE, SPINACH, SWISS CHARD

**APPLICATION RATE**

**Endive and Lettuce:** Aphids (*Aphis fabae*, *Myzus persicae*, *Nasonovia*)  
**Beet, Spinach, Swiss Chard:** Aphids (*Aphis fabae*, *Macrosiphum euphorbiae*, *Myzus persicae*), Potato Ladybird (*Epilachna dregei*); Blue-Green Citrus Nibbler (*Colaspomoma fulgidum*), Spinach Weevil (*Gasteroclisus auriciliatus*), Potato Leafminer Fly (*Liriomyza huidobrensis*) and Flies.

500 ml per 100 l water

Foliar short of run-off  
Target insect wetting  
Not more than three 5-day intervals  
PHI: 2 days

**OLIVES**

	APPLICATION RATE
	500 mℓ per 100 ℓ water
Olive Lace Bug ( <i>Plerochila australis</i> ), African Olive Psylla ( <i>Euphyllura longiciliata</i> ), Sombre Twig Pruner ( <i>Cloniocerus krausii</i> ), Olive Flea Beetle ( <i>Argopistes capensis</i> , <i>A.oleae</i> , <i>A.sexyvittatus</i> ) and Flies.	Foliar short of run-off Target insect wetting Not more than three 5-day intervals PHI: 2 days

**POME FRUITS**

APPLE, PEARS, QUINCES	APPLICATION RATE
	500 mℓ per 100 ℓ water
Aphids ( <i>Aphis spiraeicola</i> , <i>A.gossypii</i> , <i>Erosima lanigerum</i> , <i>Macrosiphum rosae</i> , <i>Myzus persicae</i> ), Mealybugs ( <i>Pseudococcus calceolariae</i> , <i>P.logispinus</i> , <i>P.viburni</i> ), Thrips ( <i>Frankliniella occidentalis</i> ), Fruit Nibbler ( <i>Odontionopa sericae</i> ), Snout Beetles and Weevils ( <i>Eremnus atratus</i> , <i>E.cerialis</i> , <i>E.setulosus</i> , <i>Pantomorus cervinus</i> , <i>Phlyctinus callosus</i> , <i>Sciobius tottus</i> ), Chinch Bug ( <i>Macchiademus [Blissus] diplopterus</i> ) and Flies.	Foliar short of run-off Target insect wetting Not more than three 5-day intervals PHI: 0 days

**STONE FRUITS**

CHERRIES, PLUMS, APRICOTS, PEACHES, NECTARINES, PRUNES	APPLICATION RATE
	500 mℓ per 100 ℓ water
Aphids ( <i>Eriosoma pyricola</i> ), Mealybugs ( <i>Pseudococcus calceolariae</i> , <i>P.logispinus</i> , <i>P.viburni</i> ), Fruit Nibbler ( <i>Odontionopa sericae</i> ), Snout Beetles and Weevils ( <i>Eremnus setulosus</i> , <i>Phlyctinus callosus</i> ), Chinch Bug ( <i>Macchiademus [Blissus] diplopterus</i> ) and Flies.	Foliar short of run-off Target insect wetting Not more than three 5-day intervals PHI: 0 days

**TOMATOES**

	APPLICATION RATE
	500 mℓ per 100 ℓ water
Large Black Tip Wiltler ( <i>Anoplocnemis curvipes</i> , <i>Elasmopoda valga</i> ), Milkweed Bug ( <i>Spilostethus pandurus</i> ), Green Vegetable Bug ( <i>Nezara viridula</i> ), Whiteflies ( <i>Bemisia tabaci</i> , <i>Trialeurodes vaporarum</i> ), Aphids ( <i>Aphis fabae</i> , <i>Macrosiphum euphorbiae</i> , <i>Myzus persicae</i> ), Thrips ( <i>Frankliniella occidentalis</i> , <i>F.schultzei</i> , <i>Thrips tabaci</i> ), Fruit and Flower Chafers ( <i>Dischista cincta</i> , <i>Pachnoda sinuata</i> , <i>Pedinorrhina trivittata</i> , <i>Pedinorrhina hebraea</i> , <i>Tephraea dichroa</i> , <i>T.leucomelona</i> ), Potato Ladybird ( <i>Epilachna dregei</i> ), Solanum Ladybird ( <i>Henosepilachna hirta</i> ), Brinjal Tortoise Beetle ( <i>Conchylotenia hybrida</i> , <i>C.tripuncticollis</i> ) and Flies.	Foliar short of run-off Target insect wetting Not more than three 5-day intervals PHI: 0 days

**OAK TREES**

	APPLICATION RATE
	500 mℓ per 100 ℓ water
Aphids	Foliar short of run-off